



EVALUATION REPORT

FLORIDA BUILDING CODE, 8TH EDITION (2023)

Manufacturer: IB ROOF SYSTEMS
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Manufacturing Plants: Scottsboro, AL

Quality Assurance: UL LLC (QUA9625)

SCOPE

Category: Roofing
Subcategory: Single Ply Roof System
Code Edition: Florida Building Code, 8th Edition (2023)
Code Sections: 1504.3.1, 1504.6, 1504.7, 1507.12
Properties: Wind Resistance, Physical Properties, Impact Resistance

PRODUCT DESCRIPTION

Products	Specification	Description
IB TPO 45 SM Membrane	ASTM D 6878 TAS 110	Nominal 45-mil thick thermoplastic polyolefin, heat-weldable, single-ply roof membrane with polyester scrim reinforcement
IB TPO 60 SM Membrane	ASTM D 6878 TAS 110	Nominal 60-mil thick thermoplastic polyolefin, heat-weldable, single-ply roof membrane with polyester scrim reinforcement
IB TPO 80 SM Membrane	ASTM D 6878 TAS 110	Nominal 80-mil thick thermoplastic polyolefin, heat-weldable, single-ply roof membrane with polyester scrim reinforcement
IB TPO 115 FB Membrane	ASTM D 6878 TAS 110	Nominal 60-mil thick thermoplastic polyolefin, heat-weldable, single-ply roof membrane with polyester scrim reinforcement and polyester fleece backing
IB TPO 135 FB Membrane	ASTM D 6878 TAS 110	Nominal 80-mil thick thermoplastic polyolefin, heat-weldable, single-ply roof membrane with polyester scrim reinforcement and polyester fleece backing

REFERENCES

<u>Entity</u>	<u>Report No.</u>	<u>Standard</u>
Atlantic & Caribbean Roof Consulting (TST4671)	ACRC 14-026	TAS 114(D) (2011)
Atlantic & Caribbean Roof Consulting (TST4671)	ACRC 14-027	TAS 114(D) (2011)
Atlantic & Caribbean Roof Consulting (TST4671)	ACRC 14-028	TAS 114(D) (2011)
Atlantic & Caribbean Roof Consulting (TST4671)	ACRC 14-029	TAS 114(D) (2011)
Atlantic & Caribbean Roof Consulting (TST4671)	ACRC 14-030	TAS 114(D) (2011)
Atlantic & Caribbean Roof Consulting (TST4671)	ACRC 14-031	TAS 114(D) (2011)
Atlantic & Caribbean Roof Consulting (TST4671)	ACRC 14-032	TAS 114(D) (2011)
Atlantic & Caribbean Roof Consulting (TST4671)	ACRC 14-033	TAS 114(D) (2011)
Atlantic & Caribbean Roof Consulting (TST4671)	ACRC 14-034	TAS 114(D) (2011)
Atlantic & Caribbean Roof Consulting (TST4671)	ACRC 14-035	TAS 114(D) (2011)
Atlantic & Caribbean Roof Consulting (TST4671)	ACRC 14-036	TAS 114(D) (2011)
Atlantic & Caribbean Roof Consulting (TST4671)	ACRC 14-037	TAS 114(D) (2011)
Atlantic & Caribbean Roof Consulting (TST4671)	ACRC 14-038	TAS 114(D) (2011)
Atlantic & Caribbean Roof Consulting (TST4671)	ACRC 14-039	TAS 114(D) (2011)
Atlantic & Caribbean Roof Consulting (TST4671)	ACRC 14-040	TAS 114(D) (2011)
Atlantic & Caribbean Roof Consulting (TST4671)	ACRC 14-041	TAS 114(D) (2011)
Atlantic & Caribbean Roof Consulting (TST4671)	ACRC 14-042	TAS 114(D) (2011)
Atlantic & Caribbean Roof Consulting (TST4671)	ACRC 14-043	TAS 114(D) (2011)
Atlantic & Caribbean Roof Consulting (TST4671)	ACRC 14-044	TAS 114(D) (2011)
Atlantic & Caribbean Roof Consulting (TST4671)	ACRC 14-045	TAS 114(D) (2011)
Atlantic & Caribbean Roof Consulting (TST4671)	ACRC 14-046	TAS 114(D) (2011)
FM Approvals (TST1867)	3009502	FM 4470 (2016)
FM Approvals (TST1867)	3012321	FM 4470 (2016)
FM Approvals (TST1867)	3014692	FM 4470 (2016)
FM Approvals (TST1867)	3014751	FM 4470 (2016)
FM Approvals (TST1867)	3015444	FM 4470 (2016)
FM Approvals (TST1867)	3016629	FM 4470 (2016)
FM Approvals (TST1867)	3018579	FM 4450 (1989)
FM Approvals (TST1867)	3018807	FM 4470 (2016)
FM Approvals (TST1867)	3025168	FM 4470 (2016)
FM Approvals (TST1867)	3025170	FM 4470 (2016)
FM Approvals (TST1867)	3025245	FM 4470 (2016)
FM Approvals (TST1867)	3025881	FM 4470 (2016)
FM Approvals (TST1867)	3028040	FM 4470 (2016)
FM Approvals (TST1867)	3030259	FM 4470 (2016)
FM Approvals (TST1867)	3030351	FM 4470 (2016)
FM Approvals (TST1867)	3030383	FM 4470 (2016)
FM Approvals (TST1867)	3031670	FM 4470 (2016)
FM Approvals (TST1867)	3032235	FM 4470 (2016)
FM Approvals (TST1867)	3033308	FM 4470 (2016)
FM Approvals (TST1867)	3035191	FM 4470 (2016)
FM Approvals (TST1867)	3035538	FM 4470 (2016)
FM Approvals (TST1867)	3037110	FM 4470 (2016)
FM Approvals (TST1867)	3037540	FM 4450 (1989)
FM Approvals (TST1867)	3039813	FM 4470 (2016)
FM Approvals (TST1867)	3040105	FM 4470 (2016)
FM Approvals (TST1867)	3043824	FM 4470 (2016)
FM Approvals (TST1867)	3044716	FM 4470 (2016)
FM Approvals (TST1867)	3046174	FM 4470 (2016)
FM Approvals (TST1867)	3051609	FM 4470 (2016)
FM Approvals (TST1867)	3052787	FM 4470 (2016)
FM Approvals (TST1867)	3053026	FM 4470 (2016)
FM Approvals (TST1867)	3055227	FM 4470 (2016)
FM Approvals (TST1867)	3055491	FM 4470 (2016)
FM Approvals (TST1867)	3055845	FM 4470 (2016)
FM Approvals (TST1867)	3056049	FM 4470 (2016)
FM Approvals (TST1867)	3056303	FM 4470 (2016)
FM Approvals (TST1867)	3056677	FM 4470 (2016)
FM Approvals (TST1867)	3058201	FM 4470 (2016)
FM Approvals (TST1867)	3058326	FM 4470 (2016)
FM Approvals (TST1867)	3058374	FM 4470 (2016)
FM Approvals (TST1867)	3059030	FM 4470 (2016)
FM Approvals (TST1867)	3059662	FM 4470 (2016)
FM Approvals (TST1867)	3060138	FM 4470 (2016)
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<u>Entity</u>	<u>Report No.</u>	<u>Standard</u>
FM Approvals (TST1867)	3060573	FM 4470 (2016)
FM Approvals (TST1867)	3060614	FM 4470 (2016)
FM Approvals (TST1867)	3061218	FM 4470 (2016)
FM Approvals (TST1867)	3061328	FM 4470 (2016)
FM Approvals (TST1867)	3014692	FM 4470 (2016)
FM Approvals (TST1867)	3062897	FM 4470 (2016)
FM Approvals (TST1867)	3063554	FM 4470 (2016)
FM Approvals (TST1867)	3014692	FM 4470 (2016)
FM Approvals (TST1867)	3018732	FM 4470 (2016)
FM Approvals (TST1867)	3056207	FM 4470 (2016)
FM Approvals (TST1867)	PR449524	FM 4470 (2016)
FM Approvals (TST1867)	PR450753	FM 4470 (2016)
FM Approvals (TST1867)	PR451160	FM 4470 (2016)
FM Approvals (TST1867)	PR451795	FM 4470 (2016)
FM Approvals (TST1867)	PR452385	FM 4470 (2016)
FM Approvals (TST1867)	PR452580	FM 4470 (2016)
FM Approvals (TST1867)	PR453724	FM 4470 (2016)
FM Approvals (TST1867)	PR454134	FM 4470 (2016)
FM Approvals (TST1867)	PR454134	FM 4470 (2016)
FM Approvals (TST1867)	PR454135	FM 4470 (2016)
FM Approvals (TST1867)	PR454167	FM 4470 (2016)
FM Approvals (TST1867)	PR454270	FM 4470 (2016)
FM Approvals (TST1867)	PR454361	FM 4470 (2016)
FM Approvals (TST1867)	PR454859	FM 4470 (2016)
FM Approvals (TST1867)	PR454859	FM 4470 (2016)
FM Approvals (TST1867)	PR455344	FM 4470 (2016)
FM Approvals (TST1867)	PR455671	FM 4470 (2016)
FM Approvals (TST1867)	PR455897	FM 4470 (2016)
FM Approvals (TST1867)	PR456300	FM 4470 (2016)
FM Approvals (TST1867)	PR457305	FM 4470 (2016)
FM Approvals (TST1867)	PR459421	FM 4470 (2016)
FM Approvals (TST1867)	PR459758	FM 4470 (2016)
FM Approvals (TST1867)	PR460141	FM 4470 (2016)
FM Approvals (TST1867)	PR460477	FM 4470 (2016)
FM Approvals (TST1867)	PR460648	FM 4470 (2016)
FM Approvals (TST1867)	PR461495	FM 4470 (2016)
FM Approvals (TST1867)	RR226853	FM 4470 (2016)
FM Approvals (TST1867)	RR228005	FM 4470 (2016)
FM Approvals (TST1867)	RR228007	FM 4470 (2016)
FM Approvals (TST1867)	RR228047	FM 4470 (2016)
FM Approvals (TST1867)	RR229340	FM 4470 (2016)
FM Approvals (TST1867)	RR230933	FM 4470 (2016)
FM Approvals (TST1867)	RR231411	FM 4470 (2016)
FM Approvals (TST1867)	RR231517	FM 4470 (2016)
FM Approvals (TST1867)	RR231520	FM 4470 (2016)
FM Approvals (TST1867)	RR232431	FM 4470 (2016)
FM Approvals (TST1867)	RR232571	FM 4470 (2016)
FM Approvals (TST1867)	RR233717	FM 4470 (2016)
FM Approvals (TST1867)	RR234327	FM 4470 (2016)
FM Approvals (TST1867)	RR234750	FM 4470 (2016)
FM Approvals (TST1867)	RR235389	FM 4470 (2016)
FM Approvals (TST1867)	3062025	FM 4470 (2016)
FM Approvals (TST1867)	3058484	FM 4470 (2016)
FM Approvals (TST1867)	PR450575	FM 4470 (2016)
FM Approvals (TST1867)	3063414	FM 4470 (2016)
FM Approvals (TST1867)	RR222695	FM 4470 (2016)
FM Approvals (TST1867)	PR460141	FM 4470 (2016)
FM Approvals (TST1867)	PR226740	FM 4470 (2016)
FM Approvals (TST1867)	RR236704	FM 4470 (2016)
FM Approvals (TST1867)	3036559	FM 4470 (2016)
FM Approvals (TST1867)	PR457312	FM 4470 (2016)
FM Approvals (TST1867)	RR236718	FM 4470 (2016)
FM Approvals (TST1867)	3058300	FM 4470 (2016)
FM Approvals (TST1867)	PR466350	FM 4470 (2016)
FM Approvals (TST1867)	PR455344	FM 4470 (2016)
FM Approvals (TST1867)	PR467396	FM 4470 (2016)

<u>Entity</u>	<u>Report No.</u>	<u>Standard</u>
FM Approvals (TST1867)	RR242215	FM 4470 (2016)
FM Approvals (TST1867)	PR468130	FM 4470 (2016)
FM Approvals (TST1867)	RR244822	FM 4470 (2016)
FM Approvals (TST1867)	RR243978	FM 4470 (2016)
FM Approvals (TST1867)	3053933	FM 4470 (2016)
FM Approvals (TST1867)	3055167	FM 4470 (2016)
FM Approvals (TST1867)	3058058	FM 4470 (2016)
FM Approvals (TST1867)	RR230610	FM 4470 (2016)
FM Approvals (TST1867)	3061510	FM 4470 (2016)
FM Approvals (TST1867)	PR458191	FM 4470 (2016)
FM Approvals (TST1867)	PR453353	FM 4470 (2016)
FM Approvals (TST1867)	PR450261	FM 4470 (2016)
FM Approvals (TST1867)	PR456713	FM 4470 (2016)
FM Approvals (TST1867)	PR470554	FM 4470 (2016)
FM Approvals (TST1867)	RR246985	FM 4470 (2016)
FM Approvals (TST1867)	RR244909	FM 4470 (2016)
FM Approvals (TST1867)	PR472771	FM 4470 (2016)
FM Approvals (TST1867)	3030259	FM 4470 (2016)
Intertek – York (ATI) (TST1558)	J0079.01-109-18	FM 4474 (2011); UL 1897 (2015)
Intertek – York (ATI) (TST1558)	J0080.01-109-18	FM 4474 (2011); UL 1897 (2015)
Intertek – York (ATI) (TST1558)	J0082.01-109-18	FM 4474 (2011); UL 1897 (2015)
Intertek – York (ATI) (TST1558)	J0083.01-109-18	FM 4474 (2011); UL 1897 (2015)
Nemoj Etc LLC (TST6049)	4a-CEL-22-LSWUS-.01A	FM 4474(B) (2011)
Nemoj Etc LLC (TST6049)	4a-JM-23-LSWUS-03.A	FM 4474(D) (2011)
Nemoj Etc LLC (TST6049)	4a-JM-23-LSWUS-02.A	UL 1897 (2015)
Nemoj Etc LLC (TST6049)	4a-JM-LSWUS-002.A	FM 4474(B) (2011)
Nemoj Etc LLC (TST6049)	4a-JM-LSWUS-002.B	FM 4474(B) (2011)
Nemoj Etc LLC (TST6049)	4a-JM-LSWUS-002.B.R1	FM 4474(B) (2011)
Nemoj Etc LLC (TST6049)	4a-CEL-LSWUS-003.A.R1	UL 1897 (2015)
PRI Construction Materials Technologies (TST5878)	JMC-086-02-01	FM 4474 (2011)
PRI Construction Materials Technologies (TST5878)	JMC-088-02-01	ASTM D 1876 (2008); TAS 117(B) (1995)
PRI Construction Materials Technologies (TST5878)	JMC-088-02-01.12	ASTM D 1876 (2008); TAS 117(A&B) (1995); TAS 114 (2011); FM 4474 (2011)
PRI Construction Materials Technologies (TST5878)	JMC-107-02-01 Rev 4	ASTM D 903 (1998); ASTM D 1876 (2008); ASTM D 5147 (2011a); TAS 117(A&B) (1995); TAS 114(C) (1995)
PRI Construction Materials Technologies (TST5878)	JMC-108-02-01	FM 4474 (2011)
PRI Construction Materials Technologies (TST5878)	JMC-109-02-01	FM 4474 (2011)
PRI Construction Materials Technologies (TST5878)	JMC-114-02-01	FM 4474 (2011)
PRI Construction Materials Technologies (TST5878)	JMC-131-02-01	FM 4474 (2011)
PRI Construction Materials Technologies (TST5878)	JMC-132-02-01	FM 4474 (2011)
PRI Construction Materials Technologies (TST5878)	JMC-132-02-02	FM 4474 (2011)
PRI Construction Materials Technologies (TST5878)	JMC-141-02-01	FM 4474 (2011)
PRI Construction Materials Technologies (TST5878)	JMC-143-02-01	FM 4474 (2011)
PRI Construction Materials Technologies (TST5878)	JMC-162-02-01	FM 4474 (2011)
PRI Construction Materials Technologies (TST5878)	JMC-163-02-01	FM 4474 (2011)
PRI Construction Materials Technologies (TST5878)	JMC-168-02-01	FM 4474 (2011)
PRI Construction Materials Technologies (TST5878)	JMC-193-02-01	FM 4474 (2011)
PRI Construction Materials Technologies (TST5878)	JMC-193-02-01A	FM 4474 (2011)
PRI Construction Materials Technologies (TST5878)	JMC-196-02-01	TAS 117(A&B) (1995)
PRI Construction Materials Technologies (TST5878)	JMC-201-02-01A	FM 4474 (2011)
PRI Construction Materials Technologies (TST5878)	JMC-201-02-01B	FM 4474 (2011)
PRI Construction Materials Technologies (TST5878)	JMC-205-02-01	ASTM D 3746 [(1985(2015)e1]
PRI Construction Materials Technologies (TST5878)	JMC-209-02-01	FM 4474 (2011)
PRI Construction Materials Technologies (TST5878)	JMC-216-02-01	ASTM D 6878 (2021)
PRI Construction Materials Technologies (TST5878)	JMC-216-02-03	ASTM D 6878 (2021)
PRI Construction Materials Technologies (TST5878)	JMC-225-02-01	FM 4474 (2011)
PRI Construction Materials Technologies (TST5878)	JMC-226-02-01	ASTM D 6878 (2021)
PRI Construction Materials Technologies (TST5878)	JMC-242-02-01	FM 4474(D) (2011)
PRI Construction Materials Technologies (TST5878)	JMC-245-02-02	FM 4474(B) (2011)
PRI Construction Materials Technologies (TST5878)	JMC-246-02-01	FM 4474(B) (2011)
PRI Construction Materials Technologies (TST5878)	JMC-267-02-02	FM 4474(B) (2011)
PRI Construction Materials Technologies (TST5878)	JMC-277-02-01	FM 4474(B) (2011)
PRI Construction Materials Technologies (TST5878)	JMC-278-02-01A	FM 4474(C) (1995)
PRI Construction Materials Technologies (TST5878)	JMC-278-02-02	FM 4474(D) (2011); UL 1897 (2015)
PRI Construction Materials Technologies (TST5878)	JMC-278-02-03	FM 4474(D) (2011)

<u>Entity</u>	<u>Report No.</u>	<u>Standard</u>
PRI Construction Materials Technologies (TST5878)	JMC-303-02-01	FM 4474(D) (2011); UL 1897 (2015)
PRI Construction Materials Technologies (TST5878)	JMC-306-02-01	FM 4474(B) (2011)
PRI Construction Materials Technologies (TST5878)	JMC-306-02-02	FM 4474(D) (2011); UL 1897 (2015)
PRI Construction Materials Technologies (TST5878)	JMC-306-02-03	FM 4474(D) (2011); UL 1897 (2015)
PRI Construction Materials Technologies (TST5878)	JMC-311-02-01	FM 4474(B) (2011)
PRI Construction Materials Technologies (TST5878)	JMC-319-02-01.1	TAS 110 (2000)
PRI Construction Materials Technologies (TST5878)	JMC-319-02-01A	TAS 110 (2000)
PRI Construction Materials Technologies (TST5878)	JMC-319-02-02.1	TAS 110 (2000)
PRI Construction Materials Technologies (TST5878)	JMC-319-02-02A	TAS 110 (2000)
PRI Construction Materials Technologies (TST5878)	JMC-325-02-01.1	TAS 110 (2000)
PRI Construction Materials Technologies (TST5878)	JMC-339-02-03	ASTM C 1289 (2018); ASTM E 84 (2018b)
PRI Construction Materials Technologies (TST5878)	JMC-339-02-04	ASTM C 1289 (2018); ASTM E 84 (2018b)
PRI Construction Materials Technologies (TST5878)	JMC-343-02-01	FM 4474(D) (2011); UL 1897 (2015)
PRI Construction Materials Technologies (TST5878)	JMC-343-02-01	ASTM D 413 (1998(2017)); TAS 117(B) (1995)
PRI Construction Materials Technologies (TST5878)	JMC-353-02-01	FM 4474(D) (2011); UL 1897 (2015)
PRI Construction Materials Technologies (TST5878)	JMC-353-02-02	TAS 114(D) (2011)
PRI Construction Materials Technologies (TST5878)	JMC-354-02-01	FM 4474(D) (2011); UL 1897 (2015)
PRI Construction Materials Technologies (TST5878)	JMC-360-02-01	FM 4474(D) (2011); UL 1897 (2015)
PRI Construction Materials Technologies (TST5878)	410T0019	FM 4474(D) (2011); UL 1897 (2015)
PRI Construction Materials Technologies (TST5878)	410T0026	FM 4474(D) (2011); UL 1897 (2015)
PRI Construction Materials Technologies (TST5878)	507T0008	FM 4474(D) (2011); UL 1897 (2015)
PRI Construction Materials Technologies (TST5878)	507T0019	ASTM D 1970/D 1970M (2017a)
PRI Construction Materials Technologies (TST5878)	507T0019	ASTM D 2178 (2015a)
PRI Construction Materials Technologies (TST5878)	507T0009	FM 4474(C) (1995)
PRI Construction Materials Technologies (TST5878)	507T0031	FM 4474(C) (1995)
PRI Construction Materials Technologies (TST5878)	507T0031A.1	FM 4474(C) (1995)
PRI Construction Materials Technologies (TST5878)	507T0036	FM 4474(D) (2011); UL 1897 (2015)
PRI Construction Materials Technologies (TST5878)	507T0036B	FM 4474(D) (2011); UL 1897 (2015)
PRI Construction Materials Technologies (TST5878)	507T0040B	ASTM D 6878 (2021)
PRI Construction Materials Technologies (TST5878)	507T0058	ASTM D 6878 (2021)
PRI Construction Materials Technologies (TST5878)	507T0059	FM 4474(D) (2011)
PRI Construction Materials Technologies (TST5878)	507T0062	FM 4474(D) (2011)
PRI Construction Materials Technologies (TST5878)	507T0141	FM 4474(B) (2011)
PRI Construction Materials Technologies (TST5878)	507T0142	FM 4474(B) (2011)
PRI Construction Materials Technologies (TST5878)	507T0147	TAS 114(D) (2011)
PRI Construction Materials Technologies (TST5878)	507T0163	FM 4474(D) (2011)
PRI Construction Materials Technologies (TST5878)	507T0164	FM 4474(C) (1995)
PRI Construction Materials Technologies (TST5878)	507T0180	FM 4474(C) (1995)
PRI Construction Materials Technologies (TST5878)	507T0182	FM 4474(B) (2011)
PRI Construction Materials Technologies (TST5878)	507T0186	FM 4474(C) (1995)
PRI Construction Materials Technologies (TST5878)	507T0187.2	FM 4470 (2016); TAS 117(A&B) (1995)
PRI Construction Materials Technologies (TST5878)	507T0193	FM 4474(D) (2011)
PRI Construction Materials Technologies (TST5878)	507T0199	TAS 114(D) (2011)
PRI Construction Materials Technologies (TST5878)	507T0218	FM 4474(C) (1995)
PRI Construction Materials Technologies (TST5878)	507T0219A	FM 4474(C) (1995)
PRI Construction Materials Technologies (TST5878)	507T0225	FM 4474(D) (2011)
PRI Construction Materials Technologies (TST5878)	507T0226	TAS 114(D) (2011)
PRI Construction Materials Technologies (TST5878)	507T0226A	TAS 114(D) (2011)
PRI Construction Materials Technologies (TST5878)	507T0229	FM 4474(D) (2011)
PRI Construction Materials Technologies (TST5878)	507T0231	FM 4474(C) (1995)
PRI Construction Materials Technologies (TST5878)	410T0020.1	FM 4474(C) (2011)
PRI Construction Materials Technologies (TST5878)	507T0198.2	TAS 114(D) (2011)
PRI Construction Materials Technologies (TST5878)	507T0009	FM 4474(C) (1995)
PRI Construction Materials Technologies (TST5878)	507T0230	TAS 114(D) (2011)
PRI Construction Materials Technologies (TST5878)	507T0234.1	TAS 114(D) (2011)
PRI Construction Materials Technologies (TST5878)	507T0235	TAS 114(D) (2011)
PRI Construction Materials Technologies (TST5878)	507T0256A	FM 4474(C) (2011)
PRI Construction Materials Technologies (TST5878)	507T0256B	FM 4474(C) (2011)
PRI Construction Materials Technologies (TST5878)	507T0273	FM 4474(C) (2011)
PRI Construction Materials Technologies (TST5878)	507T0277	FM 4474(C) (2011)
PRI Construction Materials Technologies (TST5878)	507T0302	FM 4474(D)(2011)
PRI Construction Materials Technologies (TST5878)	507T0303	FM 4474(D)(2011)
PRI Construction Materials Technologies (TST5878)	507T0306.1	FM 4474(D)(2011)
PRI Construction Materials Technologies (TST5878)	507T0320	FM 4474(C) (2011)
PRI Construction Materials Technologies (TST5878)	507T0326B	FM 4474(B) (2011)

<u>Entity</u>	<u>Report No.</u>	<u>Standard</u>
PRI Construction Materials Technologies (TST5878)	507T0327	TAS 114(D) (2011)
PRI Construction Materials Technologies (TST5878)	507T0331	FM 4474(C) (2011)
PRI Construction Materials Technologies (TST5878)	507T0339	FM 4474(D) (2011)
PRI Construction Materials Technologies (TST5878)	507T0355A.1	FM 4474 (D)(2011)
PRI Construction Materials Technologies (TST5878)	507T0345B.1	FM 4474(B) (2011)
PRI Construction Materials Technologies (TST5878)	507T0345A	FM 4474(B) (2011)
PRI Construction Materials Technologies (TST5878)	507T0355B	FM 4474(D)(2011)
PRI Construction Materials Technologies (TST5878)	507T0379	FM 4474(D) (2011)
PRI Construction Materials Technologies (TST5878)	507T0344	UL 1897 (2015)
PRI Construction Materials Technologies (TST5878)	507T0407B	UL 1897 (2015)
PRI Construction Materials Technologies (TST5878)	507T0270A	FM 4474(D) (2011)
PRI Construction Materials Technologies (TST5878)	507T0406	FM 4474(B) (2011)
PRI Construction Materials Technologies (TST5878)	507T0410.1	FM 4474(C) (2011)
PRI Construction Materials Technologies (TST5878)	507T0411	FM 4474(C) (2011)
PRI Construction Materials Technologies (TST5878)	507T0414	ASTM D 903 (1998)
PRI Construction Materials Technologies (TST5878)	507T0424	FM 4474(B) (2011)
PRI Construction Materials Technologies (TST5878)	507T0426	FM 4474(C) (2011)
PRI Construction Materials Technologies (TST5878)	507T0428	FM 4474(D) (2011)
PRI Construction Materials Technologies (TST5878)	507T0429	FM 4474(B) (2011)
PRI Construction Materials Technologies (TST5878)	507T0443	FM 4474(B) (2011)
PRI Construction Materials Technologies (TST5878)	507T0449A	FM 4474(C) (2011)
PRI Construction Materials Technologies (TST5878)	507T0458	FM 4474(D) (2011)
PRI Construction Materials Technologies (TST5878)	507T0459	FM 4474(C) (2011)
PRI Construction Materials Technologies (TST5878)	507T0461	FM 4474(B) (2011)
PRI Construction Materials Technologies (TST5878)	507T0460	UL 1897 (2015)
PRI Construction Materials Technologies (TST5878)	507T0463A	FM 4474(B) (2011)
PRI Construction Materials Technologies (TST5878)	507T0463C	FM 4474(B) (2011)
PRI Construction Materials Technologies (TST5878)	507T0467A	UL 1897 (2015)
PRI Construction Materials Technologies (TST5878)	507T0467B	FM 4474(D) (2011)
PRI Construction Materials Technologies (TST5878)	507T0469A	FM 4474(B) (2011)
PRI Construction Materials Technologies (TST5878)	507T0469B	FM 4474(B) (2011)
PRI Construction Materials Technologies (TST5878)	507T0477	FM 4474(D) (2011)
PRI Construction Materials Technologies (TST5878)	507T0478A	FM 4474(C) (2011)
PRI Construction Materials Technologies (TST5878)	507T0486	FM 4474(B) (2011)
PRI Construction Materials Technologies (TST5878)	507T0489	FM 4474(B) (2011)
PRI Construction Materials Technologies (TST5878)	507T0500	FM 4474(B) (2011)
PRI Construction Materials Technologies (TST5878)	507T0519	UL 1897 (2015)
PRI Construction Materials Technologies (TST5878)	507T0508A	FM 4474(B) (2011)
PRI Construction Materials Technologies (TST5878)	507T0508B	FM 4474(B) (2011)
PRI Construction Materials Technologies (TST5878)	507T0511A	FM 4474(B) (2011); ASTM D903 (1998)
PRI Construction Materials Technologies (TST5878)	507T0511B	FM 4474(B) (2011)
PRI Construction Materials Technologies (TST5878)	507T0520A	FM 4474(C) (2011)
PRI Construction Materials Technologies (TST5878)	507T0527	FM 4474(B) (2011)
PRI Construction Materials Technologies (TST5878)	507T0528	FM 4474(C) (2011)
PRI Construction Materials Technologies (TST5878)	507T0534	FM 4474(B) (2011)
PRI Construction Materials Technologies (TST5878)	507T0526	FM 4474(D) (2011)
PRI Construction Materials Technologies (TST5878)	507T0536	FM 4474(D) (2011)
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PRI Construction Materials Technologies (TST5878)	507T0539	UL 1897 (2015)
PRI Construction Materials Technologies (TST5878)	507T0540	FM 4474(C) (2011)
PRI Construction Materials Technologies (TST5878)	507T0541B	FM 4474(B) (2011)
PRI Construction Materials Technologies (TST5878)	507T0543	FM 4474(D) (2011)
PRI Construction Materials Technologies (TST5878)	507T0544	FM 4474(B) (2011)
PRI Construction Materials Technologies (TST5878)	507T0555	FM 4474(B) (2011)
PRI Construction Materials Technologies (TST5878)	507T0556.1	FM 4474(C) (2011)
PRI Construction Materials Technologies (TST5878)	507T0557	FM 4474(D) (2011)
PRI Construction Materials Technologies (TST5878)	507T0563	FM 4474(C) (2011)
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PRI Construction Materials Technologies (TST5878)	507T0565	FM 4474(B) (2011)
PRI Construction Materials Technologies (TST5878)	507T0569	FM 4474(B) (2011)
PRI Construction Materials Technologies (TST5878)	507T0574A.1	FM 4474(C) (2011)
PRI Construction Materials Technologies (TST5878)	507T0575	UL 1897 (2015)
PRI Construction Materials Technologies (TST5878)	507T0579	FM 4474(B) (2011)
PRI Construction Materials Technologies (TST5878)	507T0600	FM 4474(D) (2011)
PRI Construction Materials Technologies (TST5878)	507T0604	FM 4474(D) (2011)

<u>Entity</u>	<u>Report No.</u>	<u>Standard</u>
PRI Construction Materials Technologies (TST5878)	507T0615	FM 4474(B) (2011)
PRI Construction Materials Technologies (TST5878)	507T0586	FM 4474(B) (2011)
PRI Construction Materials Technologies (TST5878)	507T0584.1	FM 4474(C) (2011)
PRI Construction Materials Technologies (TST5878)	507T0619	FM 4474(B) (2011)
PRI Construction Materials Technologies (TST5878)	507T0600	FM 4474(D) (2011)
PRI Construction Materials Technologies (TST5878)	507T0601	FM 4474(B) (2011)
Robert J.M. Nieminen, P.E.	Compliance Letter 02/09/2017	TAS 114 (2011)
Trinity ERD (TST6049)	JM-SC11190.03.16	FM 4474 (2011)
Trinity ERD (TST6049)	SC4910	FM 4474 (2011)
Trinity ERD (TST6049)	SFS-SC10010.02.16-R1	FM 4474(D) (2011); UL 1897 (2015)
Trinity ERD (TST6049)	JM-SC13465.04.17	FM 4474 (2011)
Trinity ERD (TST6049)	JM-SC13465.08.17	FM 4474 (2011)
Trinity ERD (TST6049)	J30820.09.10-2	FM 4474 (2011)

LIMITATIONS

1. This report is not for use in the HVHZ.
2. Fire classification is not within the scope of this evaluation.
3. Foam plastic insulation shall be separated from the building interior in accordance with the FBC 2603.4 and 2603.6.
4. The roof deck, structural supports, and the roof deck attachment information are provided based on testing. FBC requirements for the rational design of the roof deck, including the attachment, are not within the scope of this evaluation.
5. Installation of the evaluated products shall comply with this report, the FBC, and the manufacturer's published application instructions. Where discrepancies exist between these sources, the more restrictive and FBC compliant installation detail shall prevail.
6. The minimum roof slope shall be 1/4:12 for new construction.
7. For assemblies containing mechanical attachment or adhered in ribbon-applied adhesive, the allowable uplift pressure for the selected assembly shall meet or exceed the minimum design loads as determined in accordance with the FBC Chapter 16. The attachment density may be increased by a qualified design professional, as necessary, to meet the design pressure requirements in the periphery zones. Calculations shall be conducted in compliance with RAS 117, RAS 137, or Section 2.2.10.1 FM LPDS 1-29 (July 2022).
8. Reroofing applications shall be examined in accordance with FBC Section 1511. For mechanically fastened systems, a field withdrawal resistance test (ANSI/SPRI FX-1 or TAS 105) shall be conducted by a qualified professional to ensure the fastener meets the minimum design load requirements of the system. For adhered systems, a field uplift resistance test (ASTM E 907, FM LPDS 1-52, ANSI/SPRI IA-1, or TAS 124) shall be conducted to confirm conformance of the existing to the minimum design loads.
9. For assemblies adhered in ribbon-applied adhesive, the allowable uplift pressure for the selected assembly shall meet or exceed the minimum design loads as determined in accordance with the FBC Chapter 16. The attachment density may be increased by a qualified design professional, as necessary, to meet the design pressure requirements in the periphery zones. Calculations shall be conducted in compliance with Section 2.2.10.1 FM LPDS 1-29 (July 2022).
10. All products listed in this report shall be manufactured under a quality assurance program in compliance with Rule 61G20-3.

COMPLIANCE STATEMENT

This report has been prepared in accordance with F.A.C. Rule 61G20-3.



This item has been
digitally signed and
sealed by Zachary R.
Priest, PE, on 4/12/2026.

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Digitally signed by Zachary R. Priest
CREEK Technical Services, LLC

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Zachary R. Priest, P.E.
Florida Registration No. 74021
Organization No. ANE9641

CERTIFICATION OF INDEPENDENCE

CREEK Technical Services, LLC does not have, nor will it acquire, a financial interest in any company manufacturing or distributing products under this evaluation.

CREEK Technical Services, LLC is not owned, operated, or controlled by any company manufacturing or distributing products under this evaluation.

Zachary R. Priest, P.E. does not have, nor will acquire, a financial interest in any company manufacturing or distributing products under this evaluation.

Zachary R. Priest, P.E. does not have, nor will acquire, a financial interest in any other entity involved in the approval process of the product.

APPENDICES

- 1) [APPENDIX A](#) – Installation (9 pages)
- 2) [APPENDIX B](#) – Nomenclature (5 pages)
- 3) [APPENDIX C](#) – Approved Assemblies for IB TPO Single-Ply Membranes (54 pages)

APPENDIX A - INSTALLATION
INSTALLATION

Note - Refer to the [APPROVED ASSEMBLIES](#) section of this report for specific installation details of a selected assembly.

Unless otherwise specified in this report the following installation details shall be met for the named products:

Component	Product	Installation Detail
Fasteners, Battens, & Plates	IB 2-3/8" Barbed Seam Plate	2 3/8-inch diameter; Galvalume steel plate
	IB 3" Insulation Plate	3-inch diameter round; Galvalume steel plate
	IB HD #14 Roofing Fastener	#14 fasteners; Min. 3/4-inch penetration through the top rib of the steel deck or wood deck; Min. 1-inch penetration into concrete deck
	IB SD #12 Insulation Fastener	#12 fasteners; Min. 3/4-inch penetration through the top rib of the steel deck or wood deck
	IB XHD #15 Roofing Fastener	#15 fasteners; Min. 3/4-inch penetration through the top rib of the steel deck or wood deck; Min. 1-inch penetration into concrete deck
	OMG 2" Barbed Plates	2-inch diameter; Galvalume steel plate with reinforcing ribs and barbs
	OMG 2-3/4" Super XHD Barbed Plate	2 3/4-inch diameter; Galvalume steel plate with barbs
	OMG 3" Round Metal Plate	3-inch diameter round; Galvalume steel plate; Only for use with the following products: IB Energy Board II-J, IB Energy Board III-J, IB Energy Board II-A, IB Energy Board III-A, or IB Recovery Energy Board III-J
	OMG 3 in. Ribbed Galvalume Plate (Flat)	3-inch diameter round; Galvalume steel plate
	OMG #12 Standard Roofgrip	#12 fastener; Min. 3/4-inch penetration through the top rib of the steel deck or wood deck
	OMG #15 Roofgrip	#15 fastener; Min. 3/4-inch penetration through the top rib of the steel deck or wood deck
	OMG CD-10	Concrete deck only; Min. 1-inch penetration into concrete deck
	OMG CR Base Sheet Fastener 1.7	Base sheet fastener with 1.75-inch galvanized steel shank coated with CR-10 and integrated 2.75-inch diameter Galvalume plate.
	OMG Eyehook Accuseam Plate	2 3/8-inch diameter; Galvalume steel plate with eyehooks
	OMG Flat Bottom Metal Plate	3-inch square; Galvalume steel plate
	OMG Heavy Duty	#14 fasteners; Min. 3/4-inch penetration through the top rib of the steel deck or wood deck; Min. 1-inch penetration into concrete deck
	OMG Maxload 3 in. Seam Plate	3-inch diameter; Galvalume steel plate with eyehooks
	OMG OlyLok Locking Impact Nail	Min. 1.8-inch galvanized steel tube and coated-steel locking staple pre-assembled with 2.7-inch diameter Galvalume steel plate
	OMG Polymer Batten Strip	Membrane anchors and plastic strips
	OMG Purlin	Min. 3/4-inch penetration through purlin
	OMG RhinoBond Insulation Plate (TPO)	Min. 3-inch diameter for TPO membranes; Induction welded in the field of membrane; welds not permitted at lap seams; For use only with min. 60 mil thick bareback membrane
	OMG Super XHD	#21 fastener; Min. 3/4-inch penetration through the top rib of the steel deck
	SFS Intec Dekfast PLT-H-2-7/8	2-7/8" hexagonal galvalume steel stress plate
	SFS Intec FI-P-6.8-TPO	Min. 3-inch diameter for TPO membranes; Induction welded in the field of membrane; welds not permitted at lap seams; For use only with min. 60 mil thick bareback membrane
	Trufast 2.4" Barbed Metal Seam Plate	2.4-inch diameter; Galvalume steel plate
	Trufast 2.4" Barbed Metal Seam Plate (14-Barb)	
	Trufast 2.4" Scoop Seam Plate	
	Trufast 3" Metal Insulation Plate	3-inch diameter round; Galvalume steel plate



APPENDIX A - INSTALLATION

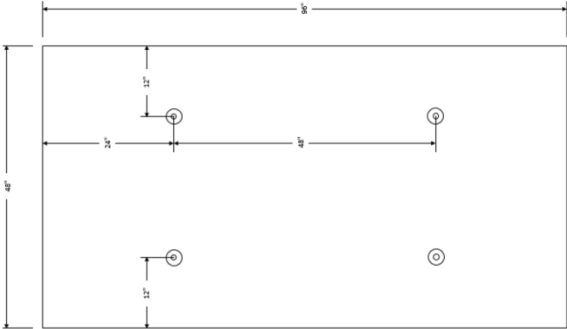
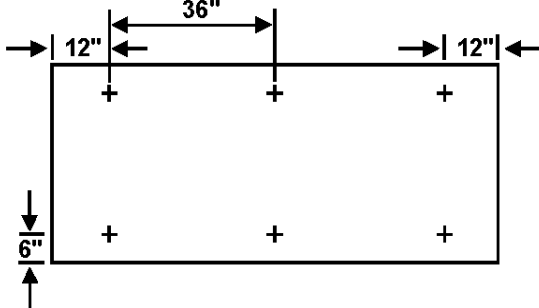
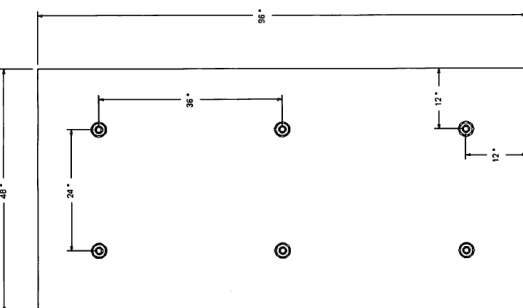
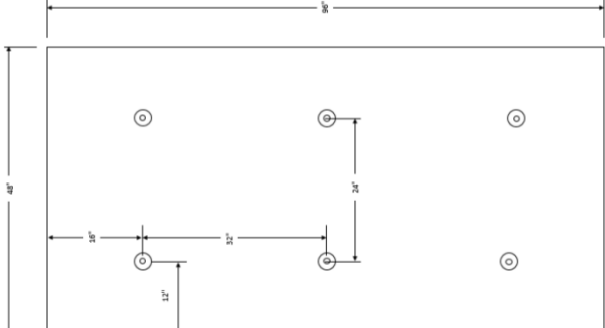
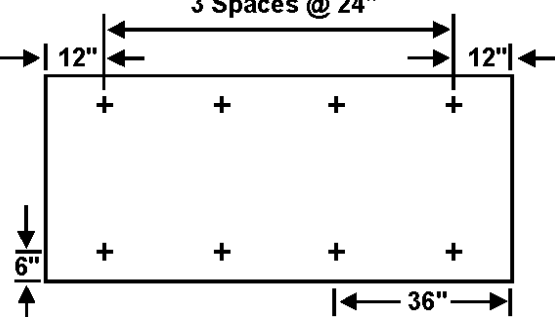
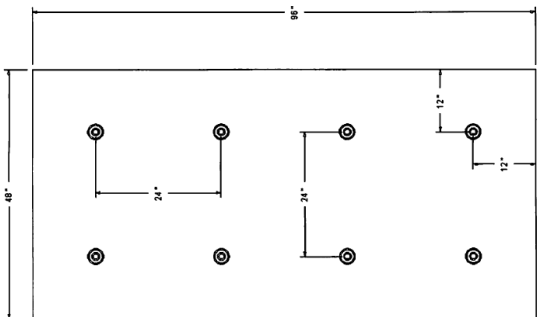
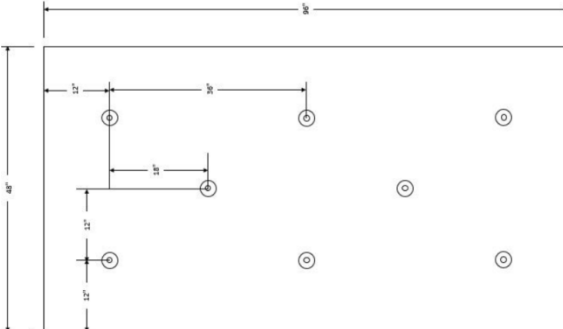
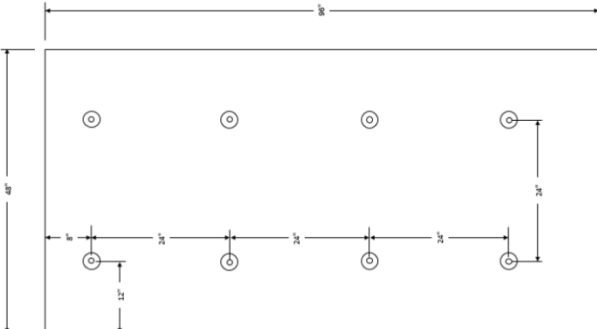
Component	Product	Installation Detail
Fasteners, Battens, & Plates (Cont'd)	Trufast #12 Purlin Fastener	Installed into min. 16ga. steel purlins
	Trufast #12 DP Fastener	#12 fasteners; Min. 3/4-inch penetration through the top rib of the steel deck or wood deck
	Trufast #14 HD Fastener	#14 fasteners; Min. 3/4-inch penetration through the top rib of the steel deck or wood deck; Min. 1-inch penetration into concrete deck
	Trufast #15 EHD Fastener	#15 fasteners; Min. 3/4-inch penetration through the top rib of the steel deck or wood deck
	Trufast Deep Well Batten Bar	Galvalume steel membrane batten with recessed holes
	Trufast Fluted Concrete Nails	Concrete deck only; Min. 1-inch penetration into concrete deck
	Trufast Straight Line Batten Bar	Galvalume steel membrane batten for use with Twin-Loc Nail without integrated plate
	Trufast TPO IW Plates	Min. 3-inch diameter for TPO membranes; Induction welded in the field of membrane; welds not permitted at lap seams; For use only with min. 60 mil thick bareback membrane
	Trufast Twin Loc-Nail	Min. 1.4-inch shank; Base sheet fastener with and without integrated 2.7-inch diameter plate
	Trufast VERSA-FAST fastener	Min. 2 1/4-inch length; Min. 3/4-inch penetration through wood deck
	Trufast VERSA-FAST Metal Plate	3-inch round; Galvalume steel plate
Insulation Adhesives	OMG OlyBond 500 Adhesive Fastener	Ribbon adhered in 3/4 to 1-inch wide beads
	OMG OlyBond 500 Canister	
	Rapid Set Insulation Adhesive	Ribbon adhered in 3/4 to 1-inch wide beads
	Rapid Set PG Foam	Ribbon application applied in 3/4 to 1-inch wide beads; Regular spatter application applied at a rate of 0.55 – 0.75 gal/100ft ² ; Heavy spatter application applied at a rate of 0.9 to 1.1 gal/100ft ²
Insulation/Cover Boards	EPS	Min. 1/2-inch, min. 1.8 pcf (HVHZ) or min. 1.5 pcf (non-HVHZ) expanded polystyrene; Adhered boards shall be a maximum 4-ft x 4-ft
	Georgia-Pacific DensDeck	Min. 1/4-inch thick
	Georgia-Pacific DensDeck Prime	
	Georgia-Pacific DensDeck ProFast Prime	Min. 3/8-inch thick
	Georgia-Pacific DensDeck StormX Prime	Min. 5/8-inch thick
	IB Energy Board II-J	Min. 1/2-inch thick; Min. 20 psi; Adhered boards shall be a maximum 4 ft x 4 ft
	IB Energy Board II-A	
	IB Energy Board III-J	Min. 1/2-inch thick; Min. 20 psi; Adhered boards shall be a maximum 4 ft x 4 ft
	IB Energy Board III-A	
	IB HD ISO-J	1/2-inch thick; Min. 80 psi; Adhered boards shall be a maximum 4 ft x 4 ft
	IB Recovery Energy Board III-J	1/2-inch thick; Min. 20 psi; Adhered boards shall be a maximum 4 ft x 4 ft
	National Gypsum DEXcell Cement Roof Board	Min. 7/16-inch thick; Adhered boards shall be a maximum 4 ft x 4 ft
	National Gypsum DEXcell Glass Mat Roof Board	Min. 1/4-inch thick
	National Gypsum DEXcell FA Glass Mat Roof Board	
	National Gypsum DEXcell FA VSH Glass Mat Roof Board	Min. 0.625-inch thick
	USG SECUROCK Glass-Mat Roof Board	Min. 1/4-inch thick
	USG SECUROCK Gypsum-Fiber Roof Board	



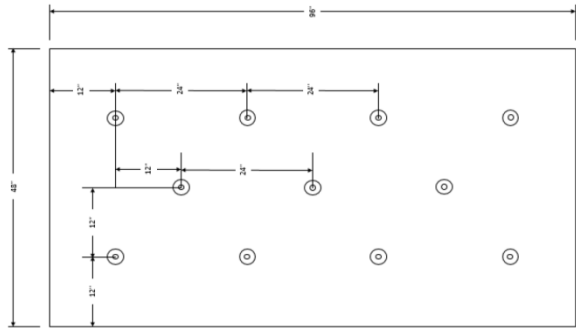
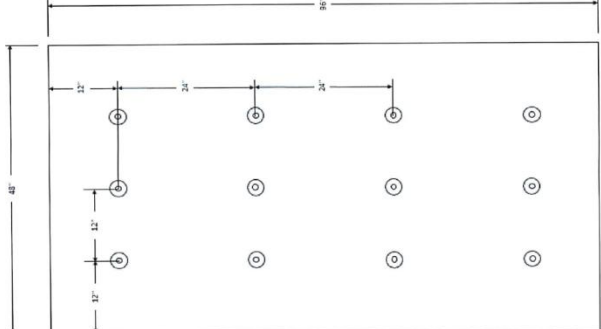
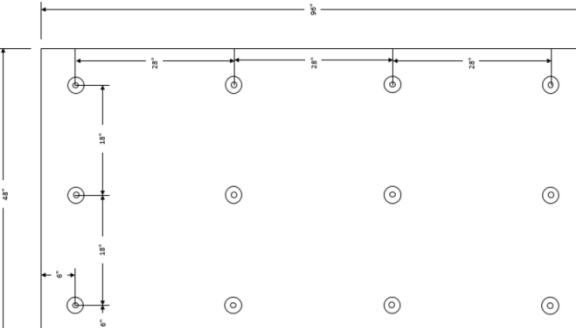
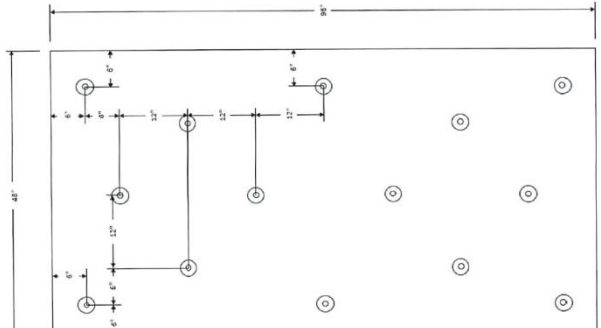
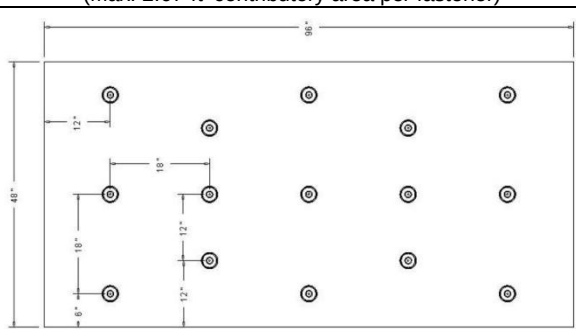
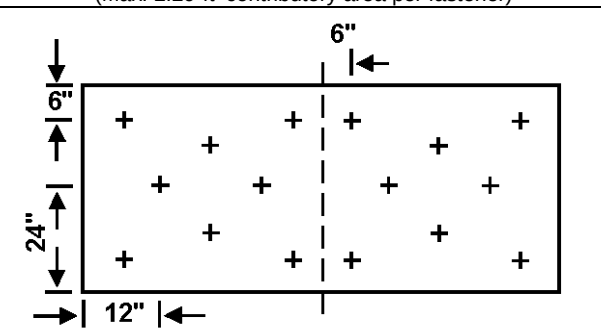
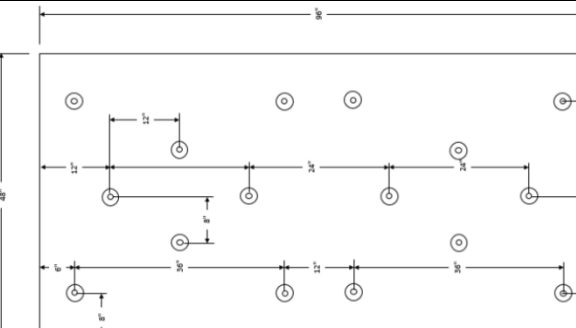
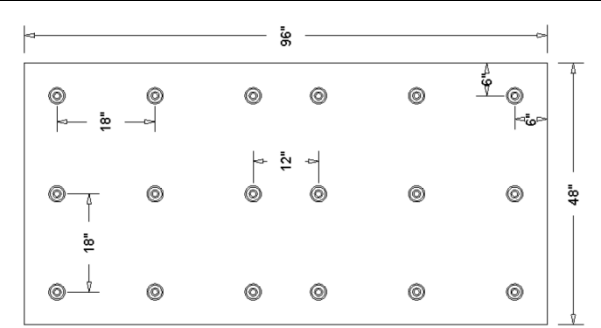
APPENDIX A - INSTALLATION

Component	Product	Installation Detail
TPO Membrane Adhesives	IB TPO Bonding Adhesive	Fully adhered at rate of 50-90 ft ² /gal(1.1-2.0 gal/100ft ²); Applied simultaneously to underside of membrane and substrate; For use with IB TPO SM membranes only
	IB TPO CA LVOC Adhesive	Fully adhered at rate of 50-90 ft ² /gal(1.1-2.0 gal/100ft ²); Applied simultaneously to underside of membrane and substrate; For use with IB TPO SM membranes only
	IB TPO LVOC Adhesive	Fully adhered at rate of 50-90 ft ² /gal(1.1-2.0 gal/100ft ²); Applied simultaneously to underside of membrane and substrate; For use with IB TPO SM membranes only
	IB TPO Spray Contact Adhesive	For IB TPO SM membranes, the adhesive is applied at a total rate of 1,000ft ² /canister; Applied simultaneously to underside of membrane and substrate; For IB TPO FB membranes the adhesive is applied both to the substrate and the underside of the membrane at a rate of 0.21-0.23 gal/100ft ² for a total application rate of 0.41-0.47gal/100ft ²
	IB TPO Water Based Adhesive	IB TPO SM membranes shall be fully adhered in one or two-sided application at a combined rate of 0.6-0.8 gal/100ft ² ; One-sided application applied to the substrate at a rate of 0.4-0.5 gal/100ft ² is also acceptable, but carries limits on wind uplift (See nomenclature for more information); IB TPO FB membranes shall be fully adhered in one-sided application applied to the substrate at a rate of 0.6-0.8 gal/100ft ²
	OMG OlyBond 500 or OlyBond 500 Canister	Applied in spatter pattern at a rate of 0.32 gal/100ft ² or ribbon application in 3/4 to 1-inch wide beads; For use only with IB TPO FB membranes only
	Rapid Set PG Foam	Ribbon adhered in 3/4 to 1-inch wide beads; Spatter application applied at 0.55 to 0.75 gal/100ft ² ; For use only with IB TPO FB membranes only
Board Primer	Detec Systems TruGround Conductive Primer	Applied at rate of 250ft ² /gal
SA Primer	IBarrier Primer	Applied 0.75-1.25 gal/100ft ² on porous surfaces and 0.25-0.75 gal/100ft ² on nonporous surfaces
	IBarrier Primer LV	Applied at rate of 0.5 gal/100ft ²
	IB TPO Spray Contact Adhesive	Applied at rate of 500 ft ² /canister
Vapor Barriers	IBarrier FG SAR	Self-adhered to primed steel, wood, gypsum or concrete decks; Min. 3-inch sides laps; Min. 6-inch end laps
TPO Single-Ply Membranes	IB TPO 45 SM Membrane	Min. 2-inch wide side-laps with min. 1.5-inch wide heat weld for adhered systems; In-lap fastened systems shall have min. 6-inch wide side-laps with min. 1.5-inch wide heat weld; Side-laps shall be installed perpendicular to the direction of the steel deck ribs and parallel to the direction of the wood trusses for mechanically attached systems
	IB TPO 60 SM Membrane	
	IB TPO 80 SM Membrane	
	IB TPO 115 FB Membrane	
	IB TPO 135 FB Membrane	
Cellular Lightweight Insulating Concrete	Celcore MF with HS Rheology Admixture	Slurry coat min. 1/8-inch thick; 1-inch thick EPS holey board (1 lbs/ft ³); Min. 2-inch thick top coat; Celcore PVA curing compound applied at rate of 300 ft ² /gal
	Celcore S-1	Deck is treated by applying a continuous film with a broom prior to placement of the Celcore lightweight concrete
	Celcore Sanded Bonding Surface (SBS)	Applied at a minimum 1/16-inch thickness
	Cellular Lightweight Insulating Concrete	Slurry coat min. 1/8-inch thick; 1" thick EPS holey board (1 lbs/ft ³); Min. 2-inch thick top coat
	Concrecel	
	Elastizell	
	Mearlcrete	

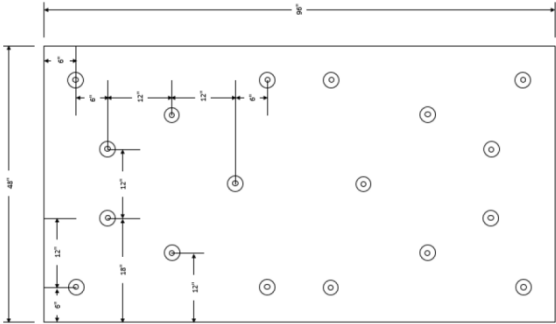
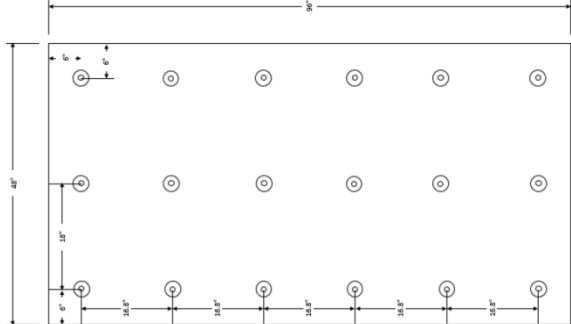
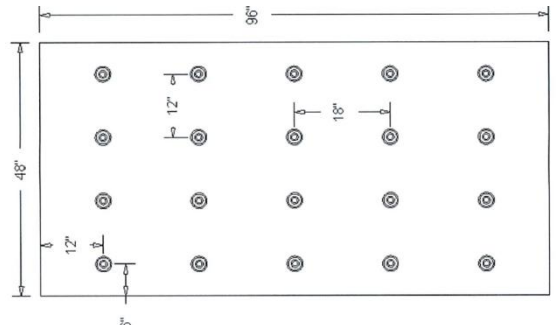
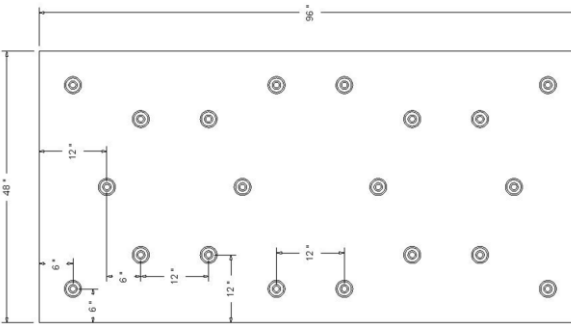
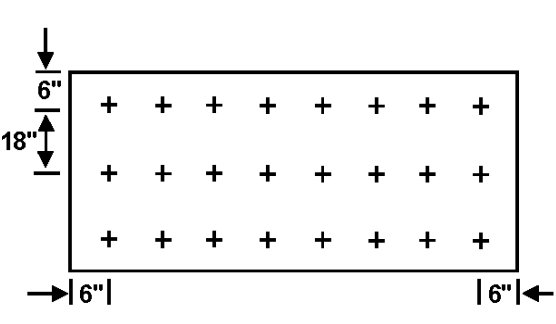
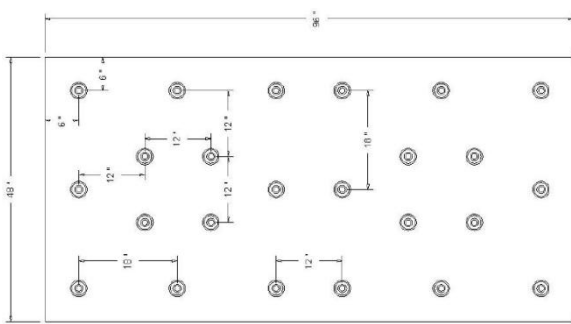
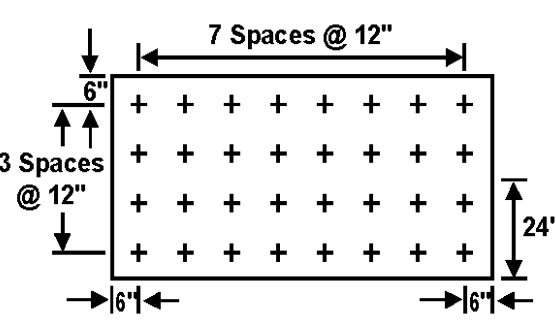
APPENDIX A - INSTALLATION

Insulation/Cover Board Fastening Patterns	
 4 per 4-ft x 8-ft board (Max. 8.0-ft² contributory area per fastener)	 6 per 4-ft x 8-ft board Pattern #1 (Max. 5.33-ft² contributory area per fastener)
 6 per 4-ft x 8-ft board Pattern #2 (Max. 5.33-ft² contributory area per fastener)	 6 per 4-ft x 8-ft Type N (Max. 5.33-ft² contributory area per fastener)
 8 per 4-ft x 8-ft board Pattern #1 (Max. 4.0-ft² contributory area per fastener)	 8 per 4-ft x 8-ft board Pattern #2 (Max. 4.0-ft² contributory area per fastener)
 8 per 4-ft x 8-ft board Pattern #3 (Max. 4.0-ft² contributory area per fastener)	 8 per 4-ft x 8-ft board Type N (Max. 4.0-ft² contributory area per fastener)

APPENDIX A - INSTALLATION

Insulation/Cover Board Fastening Patterns	
 <i>11 per 4-ft x 8-ft board</i> (Max. 2.9-ft² contributory area per fastener)	 <i>12 per 4-ft x 8-ft board Pattern #1</i> (Max. 2.67-ft² contributory area per fastener)
 <i>12 per 4-ft x 8-ft board Pattern #2</i> (Max. 2.67-ft² contributory area per fastener)	 <i>14 per 4-ft x 8-ft board</i> (Max. 2.29-ft² contributory area per fastener)
 <i>15 per 4-ft x 8-ft board</i> (Max. 2.13-ft² contributory area per fastener)	 <i>16 per 4-ft x 8-ft board</i> (Max. 2.0-ft² contributory area per fastener)
 <i>16 per 4-ft x 8-ft board Type N</i> (Max. 2.0-ft² contributory area per fastener)	 <i>18 per 4-ft x 8-ft board Pattern #1</i> (Max. 1.78-ft² contributory area per fastener)

APPENDIX A - INSTALLATION

Insulation/Cover Board Fastening Patterns	
 18 per 4-ft x 8-ft board Pattern #2 (Max. 1.78-ft² contributory area per fastener)	 18 per 4-ft x 8-ft board Pattern #3 (Max. 1.78-ft² contributory area per fastener)
 20 per 4-ft x 8-ft board Pattern #1 (Max. 1.6-ft² contributory area per fastener)	 20 per 4-ft x 8-ft board Pattern #2 (Max. 1.6-ft² contributory area per fastener)
 24 per 4-ft x 8-ft board Pattern #1 (Max. 1.33-ft² contributory area per fastener)	 24 per 4-ft x 8-ft board Pattern #2 (Max. 1.33-ft² contributory area per fastener)
 32 per 4-ft x 8-ft board (Max. 1.0-ft² contributory area per fastener)	



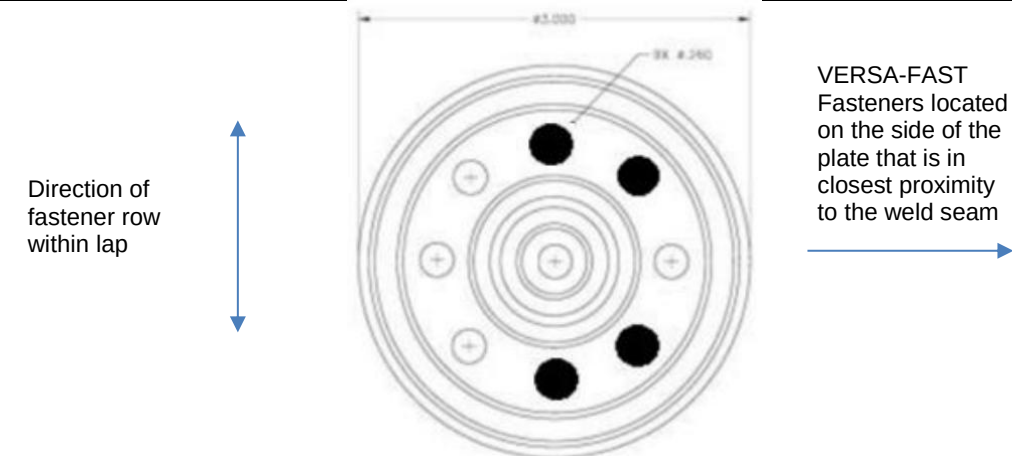
APPENDIX A - INSTALLATION

Alternate Fastener Patterns for Induction Weld Assemblies Only	
Description	Fastening Array Repeated Using the Geometric Grid Shown Below
1.5-ft x 2-ft staggered grid	
2-ft x 2-ft staggered grid	
2-ft x 3-ft staggered grid	

APPENDIX A - INSTALLATION

VERSFA-FAST Metal Plate Fastening Pattern	
Description	Fastening Pattern
2 Fasteners/ Plate	
3 Fasteners/ Plate	Direction of fastener row within lap VERSFA-FAST Fasteners located on the side of the plate that is in closest proximity to the weld seam
4 Fasteners (Wedge)/ Plate	Direction of fastener row within lap VERSFA-FAST Fasteners located on the side of the plate that is in closest proximity to the weld seam

APPENDIX A - INSTALLATION

VERSА-FAST Metal Plate Fastening Pattern	
Description	Fastening Pattern
4 Fasteners (Trapezoid)/ Plate	 Direction of fastener row within lap VERSА-FAST Fasteners located on the side of the plate that is in closest proximity to the weld seam

APPENDIX B – NOMENCLATURE
NOMENCLATURE

The following naming conventions are utilized to specify products in the [APPROVED ASSEMBLIES](#) section of this report. Refer to the nomenclature below when deciphering the allowable products for use in the selected assembly. Installation requirements shall be as noted in the [APPROVED ASSEMBLIES](#) section of this report.

Name	Definition
2" Barbed	OMG 2" Barbed Plates and OMG #15 Roofgrip (Wood Deck or Steel Deck) or OMG Heavy Duty (Concrete Deck)
3" Maxload	OMG Super XHD (Wood Deck or Steel Deck) or OMG Heavy Duty (Concrete Deck) and OMG Maxload 3 in. Seam Plate
#14 Fasteners & Plates	OMG Heavy Duty, Trufast #14 HD Fastener or OMG CD-10 (concrete only) and OMG 3" Round Metal Plate or OMG Flat Bottom Metal Plate
#14 Fasteners & Plates (Square)	OMG Heavy Duty, Trufast #14 HD Fastener or OMG CD-10 (concrete only) and OMG Flat Bottom Metal Plate
Celcore MF	Celcore MF with HS Rheology Admixture
Celcore SBS	Celcore SBS Sanded Bonding Surface applied at a minimum 1/16-inch thickness
Cover Board	One layer of any of the following products: -Georgia-Pacific DensDeck -Georgia-Pacific DensDeck Prime -Georgia-Pacific DensDeck ProFast Prime -Georgia-Pacific DensDeck StormX Prime- Roof Board -IB HD ISO-J -IB Recovery Energy Board III-J -USG SECUROCK Glass-Mat Roof Board -USG SECUROCK Gypsum-Fiber Roof Board -National Gypsum DEXcell FA Glass Mat Roof Board -National Gypsum DEXcell Glass Mat Roof Board -National Gypsum DEXcell Cement Roof Board
Deck Detail	All decks shall be designed by others in accordance with FBC requirements.
	Concrete Deck Min. $f'_c = 2,500$ psi at 28 days
	CWF Deck Min. 2.5-inch thick Tectum I cementitious wood fiber panels
	Steel Deck Min. 22 ga, Wide Rib Deck (Type WR) conforming to ANSI/SDI-RD1.0 & FBC; 0.5% Vented for LWIC applications only. Shall conform with ASTM A653 for S-A-# type assemblies.
	G<#> Min. Grade <#> of Steel Deck
	Wood Deck APA Span-Rated sheathing.
	T<#>O Min. <#>-inch thickness of the OSB sheathing complying with PS 2-18
	T<#>P Min. <#>-inch thickness of the plywood sheathing complying with PS 1-19
	L<#> Max. span of <#> inches
DDP	Min. 1/4-inch Georgia-Pacific DensDeck Prime; or Georgia-Pacific DensDeck StormX Prime
DXC	Min. 7/16-inch National Gypsum DEXcell Cement Roof Board
DXF	Min. 1/4-inch National Gypsum DEXcell FA Glass Mat Roof Board
DXVSH	National Gypsum DEXcell FA VSH Glass Mat Roof Board
EPS	ASTM C 578 expanded polystyrene insulation board, min. Type IX in HVHZ
FASTENERS	OMG #12 Standard Roofgrip, Trufast #12 DP Fastener, IB SD #12 Insulation Fastener, OMG Heavy Duty, Trufast #14 HD Fastener, IB HD #14 Roofing Fastener, OMG #15 Roofgrip, IB XHD #15 Roofing Fastener, or Trufast #15 EHD Fastener

APPENDIX B – NOMENCLATURE

Name	Definition			
Fasteners & Plates	Choose one of the following fastener and plate combinations for the given conditions:			
	Board	Fastener	Plate	Roof Deck
	Any	OMG Heavy Duty, OMG CD-10, IB HD #14 Roofing Fastener, or Trufast #14 HD Fastener	OMG Flat Bottom Metal Plate or OMG 3" Round Metal Plate	Concrete
	Any	OMG #12 Standard Roofgrip, Trufast #12 DP Fastener, Trufast #14 HD Fastener, OMG #15 Roofgrip, IB XHD #15 Roofing Fastener, or Trufast #15 EHD Fastener	OMG Flat Bottom Metal Plate or OMG 3" Round Metal Plate	Steel
	Any	OMG #12 Standard Roofgrip, Trufast #12 DP Fastener, IB SD #12 Insulation Fastener, OMG Heavy Duty, IB HD #14 Roofing Fastener, OMG #15 Roofgrip, IB XHD #15 Roofing Fastener, or Trufast #15 EHD Fastener	OMG Flat Bottom Metal Plate or OMG 3" Round Metal Plate	Plywood or OSB
	Any	IB HD #14 Roofing Fastener	IB 3" Insulation Plate	Concrete
	Any	IB SD #12 Insulation Fastener or IB XHD #15 Roofing Fastener	IB 3" Insulation Plate	Steel
	Any	IB SD #12 Insulation Fastener, IB HD #14 Roofing Fastener, or IB XHD #15 Roofing Fastener	IB 3" Insulation Plate	Plywood or OSB
	Any	OMG Heavy Duty, OMG CD-10, or Trufast #14 HD Fastener	Trufast 3" Metal Insulation Plates	Concrete
	II-J, REB III-J, DDP, DXF, or SGF	OMG #12 Standard Roofgrip or OMG #15 Roofgrip	Trufast 3" Metal Insulation Plates	Steel
	II-J, REB III-J, DDP, DXF, or SGF	OMG #12 Standard Roofgrip, OMG Heavy Duty or OMG #15 Roofgrip	Trufast 3" Metal Insulation Plates	Plywood or OSB
Any	Trufast #12 DP Fastener, Trufast #14 HD Fastener, or Trufast #15 EHD Fastener	Trufast 3" Metal Insulation Plates	Steel or OSB	
Any	Trufast #12 DP Fastener or Trufast #15 EHD Fastener	Trufast 3" Metal Insulation Plates	Plywood	
Fasteners & Trufast Plates	OMG #12 Standard Roofgrip (Steel Deck and Wood Deck), Trufast #12 DP Fasteners, OMG Heavy Duty (Concrete Deck), or Trufast #14 HD Fasteners and Trufast 3" Metal Insulation Plates			
HD ISO-J	IB HD ISO-J			
IB	IB SD #12 Insulation Fastener (Steel Deck, or Wood Deck), IB HD #14 Roofing Fastener (Concrete Deck, Steel Deck, or Wood Deck), or IB XHD #15 Roofing Fastener (Steel Deck, or Wood Deck) with IB 3" Insulation Plate			
IBIP	IB 3" Insulation Plate plates			
IB TPO	One ply of any one of the following products: IB TPO 45 SM Membrane, IB TPO 60 SM Membrane, or IB TPO 80 SM Membrane			
IB TPO FB	One ply of any one of the following products: -IB TPO 115 FB Membrane -IB TPO 135 FB Membrane			
II-J	IB Energy Board II-J			
III-J	IB Energy Board III-J			
II/III-J	IB Energy Board II-J or IB Energy Board III-J			
II/III-A	IB Energy Board II-A or IB Energy Board III-A			

APPENDIX B – NOMENCLATURE

Name	Definition
<i>INSULATION</i>	One of more layers in any combination of the following products: IB Energy Board II-A IB Energy Board III-A DensDeck DensDeck Prime DEXcell Glass Mat Roof Board DEXcell FA Glass Mat Roof Board DEXcell Cement Board IB Energy Board II-J IB Energy Board III-J IB HD ISO-J IB Recovery Energy Board III-J SECUROCK Glass-Mat Roof Board SECUROCK Gypsum-Fiber Roof Board SECUROCK Cement Roof Board EPS MULTIFIX ROXUL MONOBOARD (Unfaced) ROXUL MONOBOARD Tapered (unfaced) TOPROCK DD (Unfaced) TOPROCK DD Tapered (Unfaced) HARDROCK (DD) Multifix
<i>ISOWELD-#12</i>	SFS <i>isoweld</i> FI-P-6.8-TPO plates and IB SD #12 Insulation Fasteners
<i>ISOWELD-#15</i>	SFS <i>isoweld</i> FI-P-6.8-TPO plates and IB XHD #15 Roofing Fasteners
<i>IW</i>	Any one of the following fastener and plate combinations: 1) OMG Heavy Duty, OMG #15 Roofgrip, OMG CD-10, IB HD #14 Roofing Fastener, IB XHD #15 Roofing Fastener, Trufast #14 HD Fasteners, or Trufast #15 EHD Fasteners and OMG RhinoBond Insulation Plate (TPO) 2) Trufast #14 HD Fasteners, Trufast #15 EHD Fasteners or Trufast Fluted Concrete Nails and Trufast TPO IW Plates 3) OMG Heavy Duty, OMG #15 Roofgrip, IB HD #14 Roofing Fastener, IB XHD #15 Roofing Fastener and SFS <i>isoweld</i> FI-P-6.8-TPO plates
<i>IW #15</i>	Any one of the following fastener and plate combinations: 1) OMG #15 Roofgrip, OMG CD-10, IB XHD #15 Roofing Fastener, or Trufast #15 EHD Fasteners and OMG RhinoBond Insulation Plate (TPO) 2) Trufast #15 EHD Fasteners or Trufast Fluted Concrete Nails and Trufast TPO IW Plates 3) OMG #15 Roofgrip or IB XHD #15 Roofing Fastener and SFS <i>isoweld</i> FI-P-6.8-TPO plates
<i>LVOC</i>	IB TPO LVOC Adhesive
<i>LWIC</i>	Poured-in-place Cellular Lightweight Insulating Concrete with encapsulated insulation board
<i>MCRF</i>	Minimum Characteristic Resistance Force as determined by TAS 105 for the named fastener in the selected assembly
<i>MDP</i>	Maximum Design Pressure
<i>OB500</i>	OMG OlyBond 500
<i>OB500(B)</i>	OMG OlyBond 500 Canister applied in ribbons spaced a maximum 12-inch o.c.
<i>OB500(S)</i>	OMG OlyBond 500 or OMG OlyBond 500 Canister applied in spatter application at a rate of 3.5-3.9 lbs/100ft ²
<i>OMG Fasteners & Plates</i>	OMG XHD fasteners and 3 in. Ribbed Galvalume Plates (Flat)
<i>OMG-IP</i>	OMG #12 Standard Roofgrip (<i>Steel Deck</i> or <i>Wood Deck</i>), OMG Heavy Duty (<i>Concrete Deck</i> , <i>Steel Deck</i> , or <i>Wood Deck</i>), or OMG #15 Roofgrip (<i>Wood Deck</i> or <i>Steel Deck</i>) with OMG Flat Bottom Metal Plate or OMG 3" Round Metal Plate
<i>OMG-IP (Square)</i>	OMG #12 Standard Roofgrip (<i>Steel Deck</i> or <i>Wood Deck</i>), OMG Heavy Duty (<i>Concrete Deck</i> , <i>Steel Deck</i> , or <i>Wood Deck</i>), or OMG #15 Roofgrip (<i>Wood Deck</i> or <i>Steel Deck</i>) with OMG Flat Bottom Metal Plate
<i>OMG Plates</i>	OMG Flat Bottom Metal Plate or OMG 3" Round Metal Plate
<i>OMG Plates (Square)</i>	OMG Flat Bottom Metal Plate
<i>Preliminarily Secured</i>	Fastened at minimum rate of 5 per 4 ft x 8 ft board or 4 per 4 ft x 4 ft board
<i>ProFast</i>	DensDeck ProFast Prime Roof Board
<i>REB III-J</i>	IB Recovery Energy Board III-J
<i>Recover</i>	Where assemblies are used to recover an existing roof, the existing roof shall consist of only one layer of roofing, i.e. recovering a previously recovered roof is not permitted. Recover roofing shall be conducted in compliance with FBC Section 1511. For mechanically fastened roof assemblies and induction welded assemblies, i.e. systems x-M-# and x-W-#, the insulation layer is optional, or any INSULATION board or slip sheet may be used as separation layer prior to installing the approved roof assembly.

APPENDIX B – NOMENCLATURE

Name	Definition
<i>RhinoBond</i>	Any one of the following fastener and plate combinations: 1) OMG #15 Roofgrip (<i>Steel or Wood Deck</i>), Trufast #15 EHD Fasteners (<i>Steel Deck</i>), or OMG Heavy Duty (<i>Concrete Deck</i>) and OMG RhinoBond Insulation Plate (TPO) 2) Trufast #15 EHD Fasteners (<i>Steel Deck</i>), Trufast #14 HD Fasteners (<i>Concrete Deck</i>), or Trufast Fluted Concrete Nails (<i>Concrete Deck</i>) and Trufast TPO IW Plates 3) OMG #15 Roofgrip (<i>Steel or Wood Deck</i>), OMG Heavy Duty (<i>Concrete Deck</i>), IB HD #14 Roofing Fastener (<i>Concrete Deck</i>) and SFS isoweld FI-P-6.8-TPO plates
<i>RSIA</i>	Rapid Set Insulation Adhesive
<i>RSPG</i>	Rapid Set PG Foam
<i>RSPG(B)</i>	Rapid Set PG Foam applied in ribbons spaced a maximum 12-inch o.c.
<i>RSPG(H)</i>	Rapid Set PG Foam applied in heavy spatter coverage rate
<i>RSPG(S)</i>	Rapid Set PG Foam applied in spatter or regular spatter when used to adhere insulation or cover boards
<i>Seam Plates</i>	Any one of the following fastener and plate combinations: 1) OMG #15 Roofgrip (<i>Wood Deck or Steel Deck</i>), Trufast #15 EHD Fasteners (<i>Steel Deck</i>) or OMG Heavy Duty (<i>Concrete Deck</i>) and OMG Eyehook Accuseam Plate 2) Trufast #15 EHD Fasteners (<i>Steel Deck</i>) or Trufast #14 HD Fasteners (<i>Concrete Deck</i>) and 2.4" Scoop Seam Plate, 2.4" Barbed Metal Seam Plate, or 2.4" Barbed Metal Seam Plate (14-Barb) 3) OMG #15 Roofgrip (<i>Wood Deck or Steel Deck</i>) or IB HD #14 Roofing Fastener (<i>Concrete Deck</i>) and IB 2-3/8" Barbed Seam Plate
<i>SGF</i>	Min. 1/4-inch SECUROCK Gypsum-Fiber Roof Board
<i>StormX</i>	DensDeck StormX Prime
<i>TBA</i>	IB TPO Bonding Adhesive
<i>TCLA</i>	IB TPO CA LVOC Adhesive
<i>TF</i>	Trufast #12 DP Fastener (<i>Steel Deck or Wood Deck</i>), Trufast #14 HD Fastener (<i>Concrete Deck, Steel Deck, or Wood Deck</i>), or Trufast #15 EHD Fasteners (<i>Concrete Deck, Steel Deck or Wood Deck</i>) with Trufast 3" Metal Insulation Plate
<i>TSCA</i>	IB TPO Spray Contact Adhesive
<i>Trufast IW Plates</i>	Trufast TPO IW Plates and Trufast #15 EHD Fasteners (steel deck only), Trufast #14 HD Fasteners (concrete deck only), or Trufast Fluted Concrete Nails (concrete deck only)
<i>Trufast Seam Plates</i>	Trufast 2.4" Scoop Seam Plates and Trufast #15 EHD Fasteners
<i>TWBA</i>	IB TPO Water Based Adhesive. When using the one-sided application at a rate of 0.4-0.5 gal/100ft ² , the MDP shall be limited to the lesser of Approved Assembly and the MDP below. One or two-sided application at a combined rate of 0.6-0.8 gal/100ft ² shall be the MDP of the Approved Assembly.
	Assembly System Type
	Substrate
	MDP (psf)
	C-A-#, CW-A-#, G-A-#, LC-A-#, R-A-#
	II-J, II/III-A
	III-J, REB III-J
	HD ISO-J
	DDP
	SGF, DXF, DXC
	II-J, II/III-A, DXC
	III-J, REB III-J, HD ISO-J, DDP, SGF, DXF
	C-AM-#, CW-AM-#, G-AM-#, LC-AM-#, LS-A-#, LS-AM-#, S-A-#, S-AM-#, W-A-#, W-AM-#
<i>Vapor Barrier</i>	One of the following vapor barriers installed over the deck: -4mil or 6mil Polyethylene, loose laid -IBarrier FG SAR, self-adhered to minimum 0.5-inch thick SECUROCK Gypsum-Fiber Roof Board, DEXcell FA Glass Mat Roof Board, DEXcell Cement Roof Board, or DensDeck Prime Roof Board. The thermal barrier may be primed with IBarrier Primer LV, or IBarrier Primer

APPENDIX B – NOMENCLATURE

Name	Definition						
VB-Concrete	One of the following options may be utilized as allowed by the <i>Approved Assembly</i> . The vapor barrier shall be installed over the concrete deck prior to installation of the roof system components. The <i>MDP</i> shall be limited to the lesser of rating of the <i>Approved Assembly</i> and the <i>MDP</i> for the chosen vapor barrier.						
	Primer		Vapor Barrier		VB Application	Insulation Adhesive	MDP (psf)
	IBarrier Primer LV or IBarrrier Primer		IBarrier FG SAR		Self-adhered	RSIA or RSPG 12-inch o.c.	-135
	IBarrier Primer LV or IBarrrier Primer		IBarrier FG SAR		Self-adhered	OB500 12-inch o.c.	-82.5
	IBarrier Primer LV		IBarrier FG SAR		Self-adhered	OB500 12-inch o.c.	-175
VB-Steel	One of the following options may be utilized as allowed by the <i>Approved Assembly</i> . The vapor barrier shall be installed over the deck prior to installation of the roof system components. The <i>MDP</i> shall be limited to the lesser of rating of the <i>Approved Assembly</i> and the <i>MDP</i> for the chosen vapor barrier.						
	Thermal Barrier	TB Adhesive	Primer	Vapor Barrier	VB Application	Insulation Adhesive	MDP (psf)
	None	None	IBarrier Primer LV	IBarrier FG SAR	Self-adhered	OB500, RSIA, or RSPG 12-inch o.c.	-52.5
VERSA-FAST	Trufast VERSA-FAST Plates and VERSA-FAST Fasteners						

APPENDIX C – APPROVED ASSEMBLIES FOR TPO SINGLE-PLY MEMBRANES**APPROVED ASSEMBLIES FOR TPO SINGLE-PLY MEMBRANES**

The following notes shall be observed when using the assembly tables below.

1. Allowable pressures were calculated using a 2:1 margin of safety per FBC Section 1504.9.
2. Refer to [LIMITATIONS](#) and [NOMENCLATURE](#) sections of this evaluation when using the table(s) below. Items *italicized* refer to specific nomenclature used in this report.
3. Refer to [INSTALLATION](#) section of this report for installation detail when the information is not explicitly stated for the selected assembly.
4. The on-center (o.c.) spacing given is the maximum allowable attachment spacing for the rated system.
5. Prior to application of the approved assembly an optional vapor barrier may be installed over concrete, steel, or wood decks when the approved assembly contains insulation or the membrane fastened through to the deck.
6. IB Energy Board II-J, IB Energy Board III-J, IB Energy Board II-A, or IB Energy Board III-A base insulation attached by ribbon applied adhesives, may be installed in one or more layers.
7. Steel deck utilized in all Lightweight Insulating Concrete and S-A-# systems shall be ASTM A653, G90 galvanized steel.
8. For systems C-AM-#, C-M-#, C-W-#, S-AM-#, S-M-#, and S-W-# it is permissible to install over minimum 200psi, minimum 2-inch FBC approved lightweight insulating concrete applied over the concrete or steel deck. Alternately, for systems C-AM-#, C-M-#, S-AM-#, and S-M-#, it is permissible to substitute loose fill insulation (insulation that is part of the load path) with minimum 200psi, minimum 2-inch FBC approved lightweight insulating concrete applied over the concrete or steel deck. Fasteners shall be installed through the lightweight insulating concrete anchoring into the structural deck.
9. As noted in the assembly tables below, prior to adhering the membrane, TruGround Conductive Primer may be applied to the following board substrates when using the following membrane adhesives up to a *MDP* less than or equal to **-285psf**.
 - a. IB TPO Spray Contact Adhesive – IB Energy Board II-J, IB Energy Board III-J , IB HD ISO-J, DEXcell FA Glass Mat Roof Board, or DensDeck Prime Roof Board
 - b. IB TPO LVOC Adhesive – IB Energy Board II-J, IB Energy Board III-J , IB HD ISO-J, DEXcell FA Glass Mat Roof Board, or DensDeck Prime Roof Board
 - c. IB TPO Bonding Adhesive – IB Energy Board II-J, IB HD ISO-J, DEXcell FA Glass Mat Roof Board, or DensDeck Prime Roof Board
10. As noted in the assembly tables below, prior to adhering the membrane, TruGround Conductive Primer may be applied up to the to the *MDP* shown for the substrate and adhesive combinations given below.
 - a. **-37.5psf** *MDP* or less with IB TPO Spray Contact Adhesive applied to IB Energy Board II-J, IB Energy Board III-J , IB HD ISO-J, DEXcell FA Glass Mat Roof Board, or DensDeck Prime Roof Board
 - b. **-37.5psf** *MDP* or less with IB TPO LVOC Adhesive applied to IB Energy Board II-J, IB Energy Board III-J , IB HD ISO-J J, DEXcell FA Glass Mat Roof Board, or DensDeck Prime Roof Board
 - c. **-127.5psf** *MDP* or less with IB TPO Bonding Adhesive applied to IB Energy Board II-J, IB HD ISO-J, DEXcell FA Glass Mat Roof Board, or DensDeck Prime Roof Board
11. Reserved
12. As noted in the tables below, TruGround Conductive Primer may optionally applied to the board surface, existing roof, or deck surface prior to mechanically attaching the membrane.
13. The condition of the existing roof and roof deck is out of scope of this evaluation report. The compatibility of the recover assembly adhesive to the existing substrate shall be examined by others.

APPENDIX C – APPROVED ASSEMBLIES FOR TPO SINGLE-PLY MEMBRANES

Assembly System Numbers and Definitions	
<u>C-A-#</u>	Adhered Assemblies over <i>Concrete Deck</i> (New or Existing)
<u>C-AM-#</u>	Assemblies with Adhered Membranes over Insulated <i>Concrete Deck</i> (New, Existing, or <i>Recover</i>)
<u>C-M-#</u>	Mechanically Fastened Assemblies over <i>Concrete Deck</i>
<u>C-W-#</u>	Induction Welded Assemblies over <i>Concrete Deck</i>
<u>CW-A-#</u>	Adhered Assemblies over Cementitious Wood Fiber Decks (New or Existing)
<u>G-A-#</u>	Assemblies with All Layers Adhered over Gypsum Deck (Existing only)
<u>LC-A-#</u>	Adhered Lightweight Insulating Concrete Assemblies over <i>Concrete Deck</i> (New or Existing)
<u>LC-M-#</u>	Mechanically Fastened Lightweight Insulating Concrete Assemblies over <i>Concrete Deck</i> (New, Existing, or <i>Recover</i>)
<u>LC-W-#</u>	Induction Welded Lightweight Insulating Concrete Assemblies over <i>Concrete Deck</i> (New, Existing, or <i>Recover</i>)
<u>LS-A-#</u>	Adhered Lightweight Insulating Concrete Assemblies over <i>Steel Deck</i> (New or Existing)
<u>LS-M-#</u>	Mechanically Fastened Lightweight Insulating Concrete Assemblies over <i>Steel Deck</i> (New, Existing, or <i>Recover</i>)
<u>LS-W-#</u>	Induction Welded Lightweight Insulating Concrete Assemblies over <i>Steel Deck</i> (New, Existing, or <i>Recover</i>)
<u>R-A-#</u>	Adhered <i>Recover</i> Assemblies
<u>R-M-#</u>	Mechanically Fastened <i>Recover</i> Assemblies
<u>R-W-#</u>	Induction Welded <i>Recover</i> Assemblies
<u>S-A-#</u>	Adhered Assemblies over <i>Steel Deck</i> (New or Existing)
<u>S-AM-#</u>	Assemblies with Adhered Membranes over Insulated <i>Steel Deck</i> (New, Existing, or <i>Recover</i>)
<u>S-M-#</u>	Mechanically Fastened Assemblies over <i>Steel Deck</i> (New, Existing or <i>Recover</i>)
<u>S-W-#</u>	Induction Welded Assemblies over <i>Steel Deck</i>
<u>W-A-#</u>	Adhered Assemblies over <i>Wood Deck</i> (New or Existing)
<u>W-AM-#</u>	Assemblies with Adhered Membranes over Insulated <i>Wood Deck</i> (New, Existing, or <i>Recover</i>)
<u>W-M-#</u>	Mechanically Fastened Assemblies over <i>Wood Deck</i> (New, Existing, or <i>Recover</i>)
<u>W-W-#</u>	Induction Welded Assemblies over <i>Wood Deck</i> (New, Existing, or <i>Recover</i>)

APPENDIX C – APPROVED ASSEMBLIES FOR TPO SINGLE-PLY MEMBRANES

Adhered Assemblies over Concrete Deck (New or Existing)						
System No.	Vapor Barrier	Base Insulation (Note 6)	Top Insulation	Membrane and Attachment (Note 9)		MDP (psf)
				IB TPO	IB TPO FB	
C-A-1	OPTIONAL VB-Concrete	Min. 0.5-inch II-J in RSPG, RSIA or OB500 applied 12-inch o.c.; or RSPG(S)	DDP or StormX in RSPG applied 12-inch o.c.; or RSPG(S)	-	RSPG(B)	-45 (Lim. 9)
C-A-2	OPTIONAL VB-Concrete	Min. 0.5-inch II/III-J in RSPG or OB500 applied 12-inch o.c.; or RSPG(S)	OPTIONAL SGF in RSPG or OB500 applied 12-inch o.c.; or RSPG(S)	-	RSPG(B) or OB500(S)	-67.5 (Lim. 9)
C-A-3	OPTIONAL VB-Concrete	Min. 0.5-inch II-J in RSIA or OB500 applied 12-inch o.c.	OPTIONAL HD ISO-J in OB500 applied 12-inch o.c.	TBA, TWBA, or TSCA	-	-105 (Lim. 9)
C-A-4	OPTIONAL VB-Concrete	Min. 0.5-inch II/III-J in RSIA, RSPG or OB500 applied 12-inch o.c.; or RSPG(S)	-	-	RSPG applied 4-inch o.c.; RSPG(S) or OB500(S)	-112.5 (Lim 9)
C-A-5	OPTIONAL VB-Concrete	Min. 0.5-inch II-J in RSPG or OB500 applied 12-inch o.c.; or RSPG(S)	DDP or StormX in RSPG applied 12-inch o.c.; or RSPG(S)	-	RSPG applied 4-inch o.c. or RSPG(S)	-135 (Lim. 9)
C-A-6	OPTIONAL VB-Concrete	Min. 0.5-inch III-J in OB500 applied 12-inch o.c.; or RSPG(S)	-	TWBA, TSCA, or TBA	-	-142.5 (Lim. 9)
C-A-7	OPTIONAL VB-Concrete	Min. 0.5-inch II-J in RSIA, RSPG or OB500 applied 12-inch o.c.; or RSPG(S)	-	TSCA or TBA	-	-157.5 (Lim. 9)
C-A-8	OPTIONAL VB-Concrete	Min. 0.5-inch II-J in OB500 applied at 12-inch o.c.	-	TWBA or TSCA	-	-165 (Lim. 9)
C-A-9	OPTIONAL VB-Concrete	Min. 0.5-inch II/III-J in OB500 applied 12-inch o.c.	-	LVOC	-	-172.5 (Lim. 9)
C-A-10	OPTIONAL VB-Concrete	OPTIONAL Min. 0.5-inch II-J or III-J in OB500 applied 12-inch o.c.	SGF in OB500 applied 12-inch o.c.	TWBA, TSCA, TCLA, or TBA	-	-180 (Lim. 9)
C-A-11	OPTIONAL VB-Concrete	OPTIONAL Min. 0.5-inch II-J or III-J in OB500 applied 12-inch o.c.	DXC or DXF in OB500 applied 12-inch o.c.	TWBA or TSCA	-	-180 (Lim. 9)
C-A-12	OPTIONAL VB-Concrete	Min. 0.5-inch II-J in RSIA, RSPG or OB500 applied 12-inch o.c.; or RSPG(S)	HD ISO-J in RSIA, RSPG or OB500 applied 12-inch o.c.; or RSPG(S)	TWBA, TSCA, or TBA	-	-187.5 (Lim. 9)
C-A-13	OPTIONAL VB-Concrete	Min. 0.5-inch II-J or III-J in OB500 applied 12-inch o.c.	-	-	TWBA	-187.5 (Lim. 9)
C-A-14	OPTIONAL VB-Concrete	Min. 0.5-inch II-J or III-J in OB500 applied 12-inch o.c.	-	TWBA or TSCA	-	-195 (Lim. 9)
C-A-15	OPTIONAL VB-Concrete	Min. 0.5-inch II-J in RSIA or RSPG applied 12-inch o.c.; or RSPG(S)	HD ISO-J in RSIA or RSPG applied 12-inch o.c.; or RSPG(S)	LVOC or TBA	OB500(S)	-210 (Lim. 9)
C-A-16	OPTIONAL VB-Concrete	Min. 0.5-inch II-J in RSIA, RSPG or OB500 applied 12-inch o.c.; or RSPG(S)	DXF in RSIA or RSPG; applied 12-inch o.c.; or RSPG(S)	TSCA or TWBA	TWBA	-217.5 (Lim. 9)
C-A-17	OPTIONAL VB-Concrete	Min. 0.5-inch II-J in RSIA, RSPG or OB500 applied 12-inch o.c.; or RSPG(S)	DDP or StormX in RSPG applied 12-inch o.c.; or RSPG(S)	-	RSPG applied 4-inch o.c. or RSPG(S)	-217.5 (Lim. 9)
C-A-18	OPTIONAL VB-Concrete	Min. 0.5-inch II-J in RSIA, RSPG or OB500 applied 12-inch o.c.; or RSPG(S)	HD ISO-J in RSIA, RSPG or OB500 applied 12-inch o.c.; or RSPG(S)	TSCA, TBA, or TWBA	TWBA	-225 (Lim. 9)
C-A-19	OPTIONAL VB-Concrete	Min. 0.5-inch II-J in RSIA, RSPG or OB500 applied 12-inch o.c.; or RSPG(S)	DDP in RSIA, RSPG or OB500 applied 12-inch o.c.; or RSPG(S)	TWBA, TSCA, or TCLA	TWBA	-232.5 (Lim. 9)

IBR26001a

FL48146

Page 3 of 54

This evaluation report is provided for State of Florida product approval under Rule 61G20-3. The manufacturer shall notify CREEK Technical Services, LLC of any product changes or quality assurance changes throughout the duration for which this report is valid. This evaluation report does not express nor imply warranty, installation, recommended use, or other product attributes that are not specifically addressed herein.

APPENDIX C – APPROVED ASSEMBLIES FOR TPO SINGLE-PLY MEMBRANES

Adhered Assemblies over Concrete Deck (New or Existing)						
System No.	Vapor Barrier	Base Insulation (Note 6)	Top Insulation	Membrane and Attachment (Note 9)		MDP (psf)
				IB TPO	IB TPO FB	
C-A-20	OPTIONAL VB-Concrete	-	SGF in OB500, RSIA, or RSPG applied 12-inch o.c.; or RSPG(S)	TWBA	TWBA	-247.5 (Lim. 9)
C-A-21	OPTIONAL VB-Concrete	Min. 0.5-inch III-J in RSPG or OB500 applied 12-inch o.c.; or RSPG(S)	-	-	TWBA	-262.5 (Lim 9)
C-A-22	OPTIONAL VB-Concrete	OPTIONAL Min. 0.5-inch III-J in RSPG or OB500 applied 12-inch o.c.; or RSPG(S)	HD ISO-J, DDP or SGF applied in RSPG or OB500 12-inch o.c.; or RSPG(S)	TWBA	TWBA	-262.5 (Lim 9)
C-A-23	OPTIONAL VB-Concrete	Min. 0.5-inch III-J in RSPG or OB500 applied 12-inch o.c.; or RSPG(S)	-	TSCA or TWBA	TWBA	-277.5 (Lim 9)
C-A-24	OPTIONAL VB-Concrete	OPTIONAL Min. 0.5-inch III-J in RSPG or OB500 applied 12-inch o.c.; or RSPG(S)	HD ISO-J, DDP or SGF applied in RSPG or OB500 12-inch o.c.; or RSPG(S)	TSCA, LVOC, TBA, or TWBA	OB500(S) or TWBA	-277.5 (Lim 9)
C-A-25	OPTIONAL VB-Concrete	Min. 0.5-inch III-J in RSPG or OB500 applied 12-inch o.c.; or RSPG(S)	-	LVOC or TWBA	-	-315 (Lim. 9)
C-A-26	-	Min. 0.5-inch III-J in OB500 applied 12-inch o.c.	-	TBA	OB500(S) or TWBA	-322.5 (Lim. 9)
C-A-27	OPTIONAL VB-Concrete	Min. 0.5-inch II-J in RSPG or OB500 applied 12-inch o.c.; or RSPG(S)	-	TBA or TWBA	OB500(S) or TWBA	-322.5 (Lim. 9)
C-A-28	OPTIONAL VB-Concrete	-	SGF or DDP in RSPG or OB500 applied 12-inch o.c.; or RSPG(S)	LVOC, TBA, or TWBA	OB500(S) or TWBA	-322.5 (Lim. 9)
C-A-29	OPTIONAL VB-Concrete	-	HD ISO-J in RSPG or OB500 applied 12-inch o.c.; or RSPG(S)	LVOC, TBA, or TWBA	OB500(S) or TWBA	-322.5 (Lim. 9)
C-A-30	-	-	DXC in OB500 applied 12-inch o.c.	-	TWBA	-322.5 (Lim. 9)
C-A-31	-	-	SGF in OB500, RSIA or RSPG applied 12-inch o.c.; or RSPG(S)	-	TWBA or OB500(S)	-345 (Lim. 9)
C-A-32	-	-	SGF in OB500, RSIA or RSPG applied 12-inch o.c.; or RSPG(S)	LVOC, TBA, or TWBA	-	-360 (Lim. 9)
C-A-33	-	Min. 0.5-inch II-J in OB500 or RSPG applied 8-inch o.c.	-	TBA or TWBA	-	-367.5 (Lim. 9)
C-A-34	-	-	DXC or DXF in OB500 applied 12-inch o.c.	LVOC, TWBA, TBA, or TCLA (DXF only)	-	-390 (Lim. 9)
C-A-35	-	-	DXF in OB500 applied 12-inch o.c.	TSCA or TBA	TWBA or OB500(S)	-390 (Lim. 9)
C-A-36	-	-	SGF in RSPG(S)	LVOC, TBA, or TWBA	OB500(S)	-405 (Lim. 9)
C-A-37	-	-	DDP in RSPG(S)	LVOC, TBA, or TWBA	OB500(S)	-405 (Lim. 9)
C-A-38	-	-	-	-	OB500(S)	-457.5 (Lim. 9)

APPENDIX C – APPROVED ASSEMBLIES FOR TPO SINGLE-PLY MEMBRANES

Adhered Assemblies over Concrete Deck (New or Existing)						
System No.	Vapor Barrier	Base Insulation (Note 6)	Top Insulation	Membrane and Attachment (Note 9)		MDP (psf)
				IB TPO	IB TPO FB	
C-A-39	-	-	SGF in OB500, RSIA or RSPG applied 12-inch o.c.; or RSPG(S)	TWBA	OB500(S)	-465 (Lim. 9)
C-A-40	-	-	SGF in OB500, RSIA, or RSPG applied 12-inch o.c.; or RSPG(S)	TBA	OB500(S)	-495 (Lim. 9)
C-A-41	-	-	DDP in OB500 or RSIA or applied 6-inch o.c.	-	OB500(S)	-495 (Lim. 9)
C-A-42	-	-	-	-	RSPG(B) or RSPG(S)	-502.5 (Lim. 9)
C-A-43	-	-	-	TSCA, LVOC, or TBA	RSPG(S), OB500(S), TSCA or TWBA	-502.5 (Lim. 9)
C-A-44	-	-	DDP in RSPG applied 6-inch o.c.	-	OB500(S)	-502.5 (Lim. 9)

Assemblies with Adhered Membranes over Insulated Concrete Deck (New, Existing, or Recover)								
System No.	Thermal/ Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane and Attachment (Note 10)		MDP (psf)
						IB TPO	IB TPO FB	
C-AM-1	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch II/III-J	Simultaneously secured with top layer	Min. 0.375-inch SGF	Fasteners & Plates secured 1 fastener per 2.67ft²	TBA or TSCA	RSPG(B), TWBA, TSCA or OB500(S)	-45 (Lim. 7)
C-AM-2	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch II/III-J	Simultaneously secured with top layer	Min. 0.5-inch SGF	Fasteners & Plates secured 1 fastener per 4ft²	TBA, LVOC, TWBA, or TSCA	RSPG(B), TWBA, TSCA or OB500(S)	-45 (Lim. 7)
C-AM-3	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 1.5-inch II-J	#14 Fasteners & Plates secured 1 fastener per 2ft²	TBA, TWBA, TSCA or LVOC		-45 (Lim. 7)
C-AM-4	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 2-inch II-J	Fasteners & Plates secured 1 fastener per 2.67ft²	HD ISO-J	RSPG or OB500 applied 12-inch o.c	TWBA, TBA, LVOC or TSCA	RSPG(B), OB500(S) or TWBA	-45 (Lim. 7)
C-AM-5	OPTIONAL Vapor Barrier	Min. 1.5-inch II/III-J	Simultaneously secured with top layer	HD ISO-J	Fasteners & Plates secured 1 fastener per 4ft²	TWBA, TBA, LVOC or TSCA	RSPG(B), OB500(S) or TWBA	-45 (Lim. 9)
C-AM-6	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 2-inch II-J	#14 Fasteners & Plates secured 1 fastener per 4ft²	SGF	RSIA, RSPG or OB500 applied 12-inch o.c.; or RSPG(S)	TBA, LVOC, TWBA, or TSCA	TWBA, TSCA, RSPG(B), or OB500(S)	-45 (Lim. 7)
C-AM-7	OPTIONAL Vapor Barrier	Min. 2-inch II-J, III-J, or II/III-A	#14 Fasteners & Plates secured 1 fastener per 1ft²	Min. 1.5-inch II-J	RSIA, RSPG or OB500 applied 4-inch o.c.	-	TWBA or RSPG(B)	-45 (Lim. 7)

APPENDIX C – APPROVED ASSEMBLIES FOR TPO SINGLE-PLY MEMBRANES

Assemblies with Adhered Membranes over Insulated Concrete Deck (New, Existing, or Recover)								
System No.	Thermal/ Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane and Attachment (Note 10)		MDP (psf)
						IB TPO	IB TPO FB	
C-AM-8	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch III/J	#14 Fasteners & Plates (Square) secured 1 fastener per 4ft ²	-	RSPG(B)	-45 (Lim. 7)
C-AM-9	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch III/J	Simultaneously secured with top layer	SGF	Fasteners & Plates secured 1 fastener per 1.33ft ²	TBA, LVOC, TWBA, or TSCA	TWBA, TSCA, OB500(S)	-52.5 (Lim. 7)
C-AM-10	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch II-J	#14 Fasteners & Plates secured 1 fastener per 1.33ft ²	SGF	RSIA, RSPG or OB500 applied 12-inch o.c.; or RSPG(S)	TBA, LVOC, TWBA, or TSCA	TWBA, TSCA, RSPG(B), OB500(S)	-52.5 (Lim. 7)
C-AM-11	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min 1.5-inch II-J	#14 Fasteners & Plates secured 1 fastener per 1.45ft ²		RSPG or OB500 applied 12-inch o.c.; or RSPG(S)	-	RSPG(B) or RSPG(S)	-52.5 (Lim. 7)
C-AM-12	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch III-J	Fasteners & Plates secured 1 fastener per 2.67ft ²	TBA, TWBA or TSCA	RSPG(B) or OB500(S)	-52.5 (Lim. 7)
C-AM-13	OPTIONAL Vapor Barrier	Min. 2-inch III-J	Fasteners & Plates secured 1 fastener per 2.67ft ²	Min. 1.5-inch III-J	RSIA, RSPG, or OB500 applied 6-inch o.c.	TSCA, TWBA, TBA or LVOC		-52.5 (Lim. 7)
C-AM-14	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 1.5-inch III-J	Fasteners & Plates secured 1 fastener per 1.78ft ²	TBA or TWBA		-52.5 (Lim. 7)
C-AM-15	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 1.5-inch III/J	#14 Fasteners & Plates secured 1 fastener per 1.78ft ²	LVOC or TBA	OB500(S)	-52.5 (Lim. 7)
C-AM-16	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	HD ISO-J	Fasteners & Plates secured 1 fastener per 1.78ft ²	TWBA, TBA, LVOC, or TSCA	TWBA or OB500(S)	-52.5 (Lim. 7)
C-AM-17	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch III/J	Simultaneously secured with top layer	DDP	Fasteners & Plates secured 1 fastener per 1.78ft ²	TWBA, TBA, LVOC, TSCA or TCLA	RSPG(B), TWBA, TSCA or OB500(S)	-52.5 (Lim. 7)
C-AM-18	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch II-J	#14 Fasteners & Plates secured 1 fastener per 1.78ft ²	Min 0.5-inch SGF	RSIA, RSPG or OB500 applied 12-inch o.c.; or RSPG(S)	TBA, LVOC, TWBA, or TSCA	RSPG(B), TWBA, TSCA or OB500(S)	-60 (Lim. 7)
C-AM-19	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch III/J	Simultaneously secured with top layer	SGF	Fasteners & Plates secured 1 fastener per 1ft ²	TBA, LVOC, TWBA, or TSCA	RSPG(B), TWBA, TSCA or OB500(S)	-60 (Lim. 7)
C-AM-20	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 1.5-inch III/J	#14 Fasteners & Plates secured 1 fastener per 1.78ft ²	LVOC		-60 (Lim. 7)

APPENDIX C – APPROVED ASSEMBLIES FOR TPO SINGLE-PLY MEMBRANES

Assemblies with Adhered Membranes over Insulated Concrete Deck (New, Existing, or Recover)								
System No.	Thermal/Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane and Attachment (Note 10)		MDP (psf)
						IB TPO	IB TPO FB	
C-AM-21	OPTIONAL Vapor Barrier	Min. 1.5-inch III-J	Fasteners & Plates secured 1 fastener per 1.78ft ²	Min. 1.5-inch III-J	RSIA, RSPG, or OB500 applied 6-inch o.c.	TSCA, TWBA, TBA or LVOC		-60 (Lim. 7)
C-AM-22	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	HD ISO-J	Fasteners & Plates secured 1 fastener per 1.78ft ²	TBA, LVOC, or TSCA	OB500(S)	-60 (Lim. 7)
C-AM-23	OPTIONAL Vapor Barrier	Min. 2-inch III/III-J or II/III-A	Fasteners & Plates secured 1 fastener per 1.6ft ²	Min. 1.5-inch III/III-J or II/III-A	RSIA, RSPG, or OB500 applied 6-inch o.c.	-	OB500(S)	-60 (Lim. 7)
C-AM-24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch II-J	Fasteners & Plates secured 1 fastener per 1.6ft ²	-	RSPG(B) or OB500(S)	-60 (Lim. 7)
C-AM-25	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch III/III-J	Simultaneously secured with top layer	Min. 0.5-inch SGF	Fasteners & Plates secured 1 fastener per 2ft ²	TBA, LVOC, TWBA, or TSCA	TWBA	-60 (Lim. 7)
C-AM-26	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch III/III-J	Fasteners & Plates secured 1 fastener per 1ft ²	SGF	RSPG or OB500 applied 6-inch o.c.	TBA, LVOC, TWBA, or TSCA	TWBA, RSPG(B) or RSPG(S)	-67.5 (Lim. 7)
C-AM-27	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch III-J	Fasteners & Plates secured 1 fastener per 2ft ²	TBA, TWBA or TSCA		-67.5 (Lim. 7)
C-AM-28	OPTIONAL Vapor Barrier	Min. 2-inch III-J	Fasteners & Plates secured 1 fastener per 2ft ²	Min. 1.5-inch III-J	RSIA, RSPG, or OB500 applied 6-inch o.c.	TSCA, TWBA, TBA or LVOC		-67.5 (Lim. 7)
C-AM-29	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch II-J	Fasteners & Plates secured 1 fastener per 2ft ²	TBA, LVOC, TWBA or TSCA		-67.5 (Lim. 7)
C-AM-30	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch III-J	Fasteners & Plates secured 1 fastener per 2ft ²	TWBA, TSCA, or TBA	-	-67.5 (Lim. 7)
C-AM-31	OPTIONAL Vapor Barrier	Min. 2-inch III/III-J or II/III-A	Fasteners & Plates secured 1 fastener per 1.6ft ²	Min. 0.5-inch HD ISO-J, DXF, or SGF	RSIA, RSPG, or OB500 applied 6-inch o.c.	-	RSPG(B) 6-inch o.c. or RSPG(S)	-67.5 (Lim. 7)
C-AM-32	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch III/III-J	Simultaneously secured with top layer	Min 0.5-inch DDP	Fasteners & Plates secured 1 fastener per 1.78ft ²	TWBA, TBA, LVOC, TSCA, or TCLA	TWBA, TSCA, OB500(S)	-67.5 (Lim. 7)
C-AM-33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch III/III-J	Preliminarily Secured or secured with top layer	HD ISO-J	Fasteners & Plates secured 1 fastener per 1.33ft ²	TWBA, TBA, LVOC or TSCA	TWBA, TSCA or OB500(S)	-75 (Lim. 7)
C-AM-34	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch III/III-J, II/III-A	Fasteners & Plates secured 1 fastener per 1.6ft ²	TBA, LVOC, TWBA, or TSCA	-	-75 (Lim. 7)
C-AM-35	OPTIONAL Vapor Barrier	Min. 1.5-inch III/III-J	Simultaneously secured with top layer	Min. 0.5-inch SGF	Fasteners & Plates (Square) secured 1 fastener per 1.6ft ²	TBA, LVOC, TWBA, or TSCA	OB500(S)	-75 (Lim. 7)

APPENDIX C – APPROVED ASSEMBLIES FOR TPO SINGLE-PLY MEMBRANES

Assemblies with Adhered Membranes over Insulated Concrete Deck (New, Existing, or Recover)								
System No.	Thermal/Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane and Attachment (Note 10)		MDP (psf)
						IB TPO	IB TPO FB	
C-AM-36	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch <i>II/III-J</i>	Simultaneously secured with top layer	Min. 0.5-inch <i>SGF</i>	<i>Fasteners & Plates (Square)</i> secured 1 fastener per 1ft ²	<i>TWBA, TSCA, or TBA</i>	<i>OB500(S)</i>	-82.5 (Lim. 7)
C-AM-37	OPTIONAL Vapor Barrier	Min. 1-inch <i>II/III-J</i>	Simultaneously secured with top layer	<i>HD ISO-J</i>	<i>Fasteners & Plates</i> secured 1 fastener per 1.33ft ²	<i>TBA, LVOC, or TSCA</i>	<i>OB500(S)</i>	-82.5 (Lim. 7)
C-AM-38	OPTIONAL Vapor Barrier	Min. 2-inch <i>II/III-J</i> or <i>II/III-A</i>	<i>Fasteners & Plates</i> secured 1 fastener per 1.6ft ²	<i>HD ISO-J</i>	<i>RSIA, RSPG, or OB500</i> applied 6-inch o.c.	<i>TWBA, TBA, LVOC, or TSCA</i>	<i>OB500(S)</i>	-82.5 (Lim. 7)
C-AM-39	OPTIONAL Vapor Barrier	Min. 2-inch <i>II/III-J</i> or <i>II/III-A</i>	<i>#14 Fasteners & Plates</i> secured 1 fastener per 1.6ft ²	Min. 0.5-inch <i>DDP, DXF, or SGF</i>	<i>RSIA, RSPG, or OB500</i> applied 6-inch o.c.	<i>TSCA, TWBA, TBA or LVOC</i>		-82.5 (Lim. 7)
C-AM-40	OPTIONAL Vapor Barrier	Min. 2-inch <i>II/III-J</i> or <i>II/III-A</i>	<i>#14 Fasteners & Plates</i> secured 1 fastener per 1.6ft ²	Min. 1.5-inch <i>II/III-J</i> or <i>II/III-A</i>	<i>RSIA, RSPG, or OB500</i> applied 6-inch o.c.	<i>TSCA, TWBA, TBA or LVOC</i>	-	-82.5 (Lim. 7)
C-AM-41	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch <i>II/III-J</i>	Simultaneously secured with top layer	Min 0.625-inch <i>DDP</i>	<i>Fasteners & Plates</i> secured 1 fastener per 1.33ft ²	<i>TWBA, TBA, LVOC, TSCA, or TCLA</i>	<i>TWBA or TSCA</i>	-90 (Lim. 7)
C-AM-42	OPTIONAL Vapor Barrier	Min. 2-inch <i>II-J, III-J, or II/III-A</i>	<i>Fasteners & Plates</i> secured 1 fastener per 1ft ²	Min. 1.5-inch <i>II-J</i>	<i>RSPG or OB500</i> applied 6-inch o.c.	<i>TWBA, TBA, LVOC, TSCA or TCLA</i>	<i>OB500(S)</i>	-90 (Lim. 7)
C-AM-43	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch <i>III-J</i>	<i>Fasteners & Plates</i> secured 1 fastener per 1.33ft ²	<i>TBA or TWBA</i>		-105 (Lim. 7)
C-AM-44	OPTIONAL Vapor Barrier	Min. 1.5-inch <i>II/III-J</i>	Simultaneously secured with top layer	Min. 0.5-inch <i>DXF</i>	<i>Fasteners & Plates</i> secured 1 fastener per 1ft ²	<i>TBA, LVOC, TWBA, or TSCA</i>		-105 (Lim. 7)
C-AM-45	OPTIONAL Vapor Barrier	Min. 1.5-inch <i>II/III-J</i>	Simultaneously secured with top layer	Min. 0.5-inch <i>DDP</i>	<i>Fasteners & Plates</i> secured 1 fastener per 1ft ²	<i>TBA, LVOC, TWBA, TSCA, or TCLA</i>		-112.5 (Lim. 7)
C-AM-46	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch <i>II/III-J</i> or <i>II/III-A</i>	<i>Fasteners & Plates</i> secured 1 fastener per 1ft ²	<i>TBA, LVOC, or TWBA</i>		-120 (Lim. 7)
C-AM-47	OPTIONAL Vapor Barrier	Min. 2-inch <i>II-J, III-J, or II/III-A</i>	<i>Fasteners & Plates</i> secured 1 fastener per 1ft ²	Min. 1.5-inch <i>II-J</i>	<i>RSIA, RSPG or OB500</i> applied 4-inch o.c.	<i>TWBA, TBA, or LVOC</i>		-120 (Lim. 7)
C-AM-48	OPTIONAL Vapor Barrier	Min. 2-inch <i>II/III-J</i> or <i>II/III-A</i>	<i>Fasteners & Plates</i> secured 1 fastener per 1ft ²	<i>HD ISO-J</i>	<i>RSIA, RSPG, or OB500</i> applied 4-inch o.c.	<i>TWBA, TBA, LVOC, or TSCA</i>		-120 (Lim. 7)
C-AM-49	OPTIONAL Vapor Barrier	Min. 2-inch <i>II-J, III-J, or II/III-A</i>	<i>Fasteners & Plates</i> secured 1 fastener per 1ft ²	Min. 1.5-inch <i>II-J</i>	<i>RSIA, RSPG or OB500</i> applied 4-inch o.c.	<i>TSCA or TBA</i>	-	-127.5 (Lim. 7)

APPENDIX C – APPROVED ASSEMBLIES FOR TPO SINGLE-PLY MEMBRANES

Assemblies with Adhered Membranes over Insulated <i>Concrete Deck</i> (New, Existing, or Recover)								
System No.	Thermal/ Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane and Attachment (Note 10)		MDP (psf)
						IB TPO	IB TPO FB	
C-AM-50	OPTIONAL <i>Vapor Barrier</i>	OPTIONAL INSULATION under min. 1.5-inch II/III-J	Simultaneously secured with top layer	Min. 0.5-inch DXF	Fasteners & Plates secured 1 fastener per 1ft ²	-	OB500(S)	-135 (Lim. 7)
C-AM-51	OPTIONAL <i>Vapor Barrier</i>	OPTIONAL INSULATION under min. 1.5-inch II/III-J	Simultaneously secured with top layer	Min. 0.5-inch SGF	Fasteners & Plates secured 1 fastener per 1ft ²	TWBA	TWBA	-150 (Lim. 7)

Mechanically Fastened Assemblies over <i>Concrete Deck</i> (New or Existing)							
System No.	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment (Note 12)	MDP (psf)
C-M-1	OPTIONAL INSULATION under min. 1-inch II/III-J	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	IB TPO	Attached in-lap 12-inch o.c. with OMG Heavy Duty and OMG 2-3/4" Super XHD Barbed Plate; Fastener rows max. 114-inch o.c.	-30 (Lim. 7)
C-M-2	OPTIONAL INSULATION under min. 1.5-inch II/III-J	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	IB TPO SM (Min. 60 mil)	Attached in-lap 12-inch o.c. with Seam Plates; Fastener rows max. 138-inch o.c.	-30 (Lim. 7)
C-M-3	OPTIONAL INSULATION under min. 1.5-inch II/III-J	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	IB TPO SM (Min. 60 mil)	Attached in-lap 12-inch o.c. with Trufast Seam Plates; Fastener rows max. 90-inch o.c.	-30 (Lim. 7)
C-M-4	OPTIONAL INSULATION under min. 1-inch II/III-J	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	IB TPO SM (Min. 60 mil)	Attached in-lap 12-inch o.c. with Seam Plates; Fastener rows max. 90-inch o.c.	-37.5 (Lim. 7)
C-M-5	OPTIONAL INSULATION under min. 1.5-inch II/III-J	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	IB TPO	Attached in-lap 12-inch o.c. with Seam Plates; Fastener rows max. 114-inch o.c.	-37.5 (Lim. 7)
C-M-6	OPTIONAL INSULATION under min. 1.5-inch II/III-J	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	IB TPO SM (Min. 60 mil)	Attached in-lap 12-inch o.c. with Seam Plates; Fastener rows max. 66-inch .c.	(-45 Lim. 7)
C-M-7	OPTIONAL INSULATION under min. 1-inch II/III-J	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	IB TPO	Attached in-lap 12-inch o.c. with OMG Heavy Duty and OMG 2-3/4" Super XHD Barbed Plate; Fastener rows max. 90-inch o.c.	-45 (Lim. 7)

APPENDIX C – APPROVED ASSEMBLIES FOR TPO SINGLE-PLY MEMBRANES

Mechanically Fastened Assemblies over Concrete Deck (New or Existing)							
System No.	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment (Note 12)	MDP (psf)
C-M-8	OPTIONAL INSULATION under min. 1.5-inch II/III-J	<i>Preliminarily Secured or secured with top layer</i>	OPTIONAL Cover Board	<i>Preliminarily Secured</i>	IB TPO or IB TPO FB	Attached in-lap 12-inch o.c. with Seam Plates; Fastener rows max. 114-inch o.c.	-45 (Lim. 7)
C-M-9	OPTIONAL INSULATION under min. 1.5-inch II/III-J	<i>Preliminarily Secured or secured with top layer</i>	OPTIONAL Cover Board	<i>Preliminarily Secured</i>	IB TPO or IB TPO FB	Attached in-lap 12-inch o.c. with Seam Plates; Fastener rows max. 66-inch o.c.	-45 (Lim. 7)
C-M-10	OPTIONAL INSULATION under min. 1.5-inch II/III-J	<i>Preliminarily Secured or secured with top layer</i>	OPTIONAL Cover Board	<i>Preliminarily Secured</i>	IB TPO or IB TPO FB	Attached in-lap 6-inch o.c. with Seam Plates; Fastener rows max. 114-inch o.c.	-45 (Lim. 7)
C-M-11	OPTIONAL INSULATION under min. 1.5-inch II/III-J	<i>Preliminarily Secured or secured with top layer</i>	OPTIONAL Cover Board	<i>Preliminarily Secured</i>	IB TPO or IB TPO FB	Attached in-lap 6-inch o.c. with Seam Plates; Fastener rows max. 114-inch o.c.	-52.5 (Lim. 7)
C-M-12	OPTIONAL INSULATION under min. 1.5-inch II/III-J	<i>Preliminarily Secured or secured with top layer</i>	OPTIONAL Cover Board	<i>Preliminarily Secured</i>	IB TPO SM (Min. 60 mil)	Attached in-lap 12-inch o.c. with Seam Plates; Fastener rows max. 54-inch o.c.	-52.5 (Lim. 7)
C-M-13	OPTIONAL INSULATION under min. 1.5-inch II/III-J	<i>Preliminarily Secured or secured with top layer</i>	OPTIONAL Cover Board	<i>Preliminarily Secured</i>	IB TPO	Attached in-lap 6-inch o.c. with Seam Plates; Fastener rows max. 90-inch o.c.	-60 (Lim. 7)
C-M-14	OPTIONAL INSULATION under min. 1-inch II/III-J	<i>Preliminarily Secured or secured with top layer</i>	OPTIONAL Cover Board	<i>Preliminarily Secured</i>	IB TPO or IB TPO FB	Attached in-lap 6-inch o.c. with Seam Plates; Fastener rows max. 114-inch o.c.	-60 (Lim. 7)
C-M-15	OPTIONAL INSULATION under min. 1.5-inch II/III-J	<i>Preliminarily Secured or secured with top layer</i>	OPTIONAL Cover Board	<i>Preliminarily Secured</i>	IB TPO SM (Min. 60 mil)	Attached in-lap 6-inch o.c. with Seam Plates; Fastener rows max. 138-inch o.c.	(-60 Lim. 7)
C-M-16	OPTIONAL INSULATION under min. 1.5-inch II/III-J	<i>Preliminarily Secured or secured with top layer</i>	OPTIONAL Cover Board	<i>Preliminarily Secured</i>	IB TPO SM (Min. 60 mil)	Attached in-lap 6-inch o.c. with Trufast Seam Plates; Fastener rows max. 90-inch o.c.	-60 (Lim. 7)
C-M-17	OPTIONAL INSULATION under min. 1-inch II/III-J	<i>Preliminarily Secured or secured with top layer</i>	OPTIONAL Cover Board	<i>Preliminarily Secured</i>	IB TPO	Attached in-lap 6-inch o.c. with Seam Plates; Fastener rows max. 90-inch o.c.	-75 (Lim. 7)

APPENDIX C – APPROVED ASSEMBLIES FOR TPO SINGLE-PLY MEMBRANES

Mechanically Fastened Assemblies over Concrete Deck (New or Existing)							
System No.	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment (Note 12)	MDP (psf)
C-M-18	OPTIONAL INSULATION under min. 1.5-inch II/III-J	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	IB TPO or IB TPO FB	Attached in-lap 6-inch o.c. with Seam Plates; Fastener rows max. 66-inch o.c.	-90 (Lim. 7)
C-M-19	OPTIONAL INSULATION under min. 1-inch II/III-J	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	IB TPO or IB TPO FB	Attached in-lap 6-inch o.c. with Seam Plates; Fastener rows max. 54-inch o.c.	-97.5 (Lim. 7)
C-M-20	OPTIONAL INSULATION under min. 1.5-inch II/III-J	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	IB TPO SM (Min. 60 mil)	Attached in-lap 6-inch o.c. with Seam Plates; Fastener rows max. 66-inch o.c.	(-105 Lim. 7)

Induction Welded Assemblies over Concrete Deck (New, Existing, or Recover)							
System No.	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment (Note 12)	MDP (psf)
C-W-1	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	RhinoBond secured 8 per 4-ft x 8-ft board Pattern #1 (1 fastener per 4ft ²)	IB TPO SM (Min. 60 mil)	Induction welded to weld plates	-45 (Lim. 7)
C-W-2	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	RhinoBond 12-inch o.c. with rows max. 72-inch o.c.	IB TPO SM (Min. 60 mil)	Induction welded to weld plates	-45 (Lim. 7)
C-W-3	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	ISOWELD-#14 or ISOWELD-#15 secured 1 fastener per 4ft ²	IB TPO SM (Min. 60 mil)	Induction welded to weld plates	-45 (Lim. 7)
C-W-4	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	ISOWELD-#14 or ISOWELD-#15 secured 24-inch o.c. in rows 24-inch o.c.	IB TPO SM (Min. 60 mil)	Induction welded to weld plates	-45 (Lim. 7)
C-W-5	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	ISOWELD-#14 or ISOWELD-#15 secured 12-inch o.c. in rows 60" o.c.	IB TPO SM (Min. 60 mil)	Induction welded to weld plates	-45 (Lim. 7)
C-W-6	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	ISOWELD-#14 or ISOWELD-#15 secured in a 2-ft x 3-ft staggered grid	IB TPO SM (Min. 60 mil)	Induction welded to weld plates	-45 (Lim. 7)
C-W-7	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Trufast IW Plates secured 1 fastener per 5.33ft ² ; End joints offset 12-inches between board rows	IB TPO SM (Min. 60 mil)	Induction welded to weld plates	-45 (Lim. 7)
C-W-8	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	RhinoBond secured 6 per 4-ft x 8-ft board Pattern #2 (1 fastener per 5.33-ft ²); Board installed with 6-inch stagger from preceding course	IB TPO SM (Min. 60 mil)	Induction welded to weld plates	-52.5 (Lim. 7)
C-W-9	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Trufast IW Plates secured 1 fastener per 4ft ² ; End joints offset 12-inches between board rows	IB TPO SM (Min. 60 mil)	Induction welded to weld plates	-52.5 (Lim. 7)

APPENDIX C – APPROVED ASSEMBLIES FOR TPO SINGLE-PLY MEMBRANES

Induction Welded Assemblies over Concrete Deck (New, Existing, or Recover)							
System No.	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment (Note 12)	MDP (psf)
C-W-10	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	ISOWELD-#14 or ISOWELD-#15 spaced in a 2-ft x 2-ft staggered grid	IB TPO SM (Min. 60 mil)	Induction welded to weld plates	-60 (Lim. 7)
C-W-11	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	RhinoBond secured 8 per 4-ft x 8-ft board Pattern #2 (1 fastener per 4ft ²); Board installed with 6-inch stagger from preceding course	IB TPO SM (Min. 60 mil)	Induction welded to weld plates	-67.5 (Lim. 7)
C-W-12	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	RhinoBond secured 12 per 4-ft x 8-ft board Pattern #1 (1 fastener per 2.67-ft ²)	IB TPO SM (Min. 60 mil)	Induction welded to weld plates	-75 (Lim. 7)
C-W-13	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	ISOWELD-#14 or ISOWELD-#15 secured 1 fastener per 3.2-ft ²	IB TPO SM (Min. 60 mil)	Induction welded to weld plates	-75 (Lim. 7)
C-W-14	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	ISOWELD-#14 or ISOWELD-#15 spaced in a 1.5-ft x 2-ft staggered grid	IB TPO SM (Min. 60 mil)	Induction welded to weld plates	-82.5 (Lim. 7)
C-W-15	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	RhinoBond in a 24-inch by 16-inch grid pattern	IB TPO SM (Min. 60 mil)	Induction welded to weld plates	-90 (Lim. 7)
C-W-16	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	RhinoBond secured 15 per 4-ft x 8-ft board (1 fastener per 2.13-ft ²)	IB TPO SM (Min. 60 mil)	Induction welded to weld plates	-90 (Lim. 7)
C-W-17	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	RhinoBond secured 12 per 4-ft x 8-ft board Pattern #1 (1 fastener per 2.67-ft ²); Board installed with 6-inch stagger from preceding course	IB TPO SM (Min. 60 mil)	Induction welded to weld plates	-90 (Lim. 7)
C-W-18	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Trufast IW Plates secured 6-inch o.c. in rows 60-inch o.c.	IB TPO SM (Min. 60 mil)	Induction welded to weld plates	-90 (Lim. 7)
C-W-19	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	ISOWELD-#14 or ISOWELD-#15 spaced 18" o.c. in rows 18" o.c.	IB TPO SM (Min. 60 mil)	Induction welded to weld plates	-97.5 (Lim. 7)
C-W-20	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	ISOWELD-#14 or ISOWELD-#15 spaced 6-inch o.c. in rows 60" o.c.	IB TPO SM (Min. 60 mil)	Induction welded to weld plates	-97.5 (Lim. 7)
C-W-21	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Trufast IW Plates secured 1 fastener per 2ft ² ; End joints offset 12-inches between board rows	IB TPO SM (Min. 60 mil)	Induction welded to weld plates	-105 (Lim. 7)

Adhered Assemblies over Cementitious Wood Fiber Deck (New or Existing)							
System No.	Base Insulation (Note 6)	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane and Attachment (Note 9)		MDP (psf)
					IB TPO	IB TPO FB	
CW-A-1	OPTIONAL Min. 0.5-inch II-J	RSIA or RSPG applied 12-inch o.c.	HD ISO-J	RSIA, RSPG or OB500 applied 12-inch o.c.	-	RSPG(B) or TWBA	-122.5 (Lim. 9)

APPENDIX C – APPROVED ASSEMBLIES FOR TPO SINGLE-PLY MEMBRANES

Adhered Assemblies over Cementitious Wood Fiber Deck (New or Existing)							
System No.	Base Insulation (Note 6)	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane and Attachment (Note 9)		MDP (psf)
					IB TPO	IB TPO FB	
CW-A-2	Min. 0.5-inch II-J	RSPG applied 12-inch o.c.	OPTIONAL SGF	RSIA, RSPG or OB500 applied 12-inch o.c.	TWBA, LVOC, TSCA, or TBA	TWBA, TSCA, RSPG(B), RSPG(S), or OB500(S)	-135 (Lim. 9)
CW-A-3	OPTIONAL Min. 0.5-inch II-J	RSIA applied 12-inch o.c.	SGF	RSIA, RSPG or OB500 applied 12-inch o.c.	LVOC, TSCA, TCLA, or TBA	RSPG(B) or RSPG(S)	-140 (Lim. 9)
CW-A-4	Min. 0.5-inch II-J	RSPG applied 12-inch o.c.	-	-	TWBA, LVOC, TSCA, or TBA	TWBA, TSCA, RSPG(B), RSPG(S), or OB500(S)	-150 (Lim. 9)
CW-A-5	SGF	RSPG, RSIA, or OB500 applied 12-inch o.c.	-	-	TWBA LVOC, TSCA, TCLA, or TBA	TWBA, TSCA, RSPG(B), RSPG(S), or OB500(S)	-157.5 (Lim. 9)
CW-A-6	Min. 0.5-inch II-J	RSIA applied 12-inch o.c.	-	-	TWBA, LVOC, TSCA, or TBA	TWBA, RSPG(B), RSPG(S), or OB500(S)	-157.5 (Lim. 9)
CW-A-7	Min. 0.5-inch II-J	RSIA or RSPG applied 12-inch o.c.	HD ISO-J	RSIA or RSPG applied 12-inch o.c.	LVOC, TSCA or TBA	OB500(S) or TWBA	-157.5 (Lim. 9)
CW-A-8	Min. 0.5-inch II-J	RSIA or RSPG applied 12-inch o.c.	DDP	RSIA or RSPG applied 12-inch o.c.	TWBA, TSCA, TCLA or TBA	OB500(S) or TWBA	-157.5 (Lim. 9)
CW-A-9		RSPG applied 12-inch o.c.	-	-	-	TWBA	-160 (Lim. 9)
CW-A-10	Min. 475 psi Celcore MF	Poured-in-place	-	-	-	RSPG(B) or RSPG(S)	-167.5 (Lim. 9)
CW-A-11	Min. 475 psi Celcore MF	Poured-in-place	-	-	-	RSPG applied 4-inch o.c.; or RSPG(S)	-197.5 (Lim. 9)
CW-A-12	Min. 0.5-inch III/III-J	RSPG applied 12-inch o.c.	-	-	TSCA, LVOC, TBA, or TWBA	OB500(S)	-255 (Lim. 9)
CW-A-13	OPTIONAL Min. 0.5-inch III/III-J	RSPG applied 12-inch o.c.	DDP or SGF	RSPG applied 12-inch o.c.	TSCA, LVOC, TBA, or TWBA	OB500(S) or TWBA	-255 (Lim. 9)
CW-A-14	OPTIONAL Min. 0.5-inch III/III-J	RSPG applied 12-inch o.c.	HD ISO-J	RSPG applied 12-inch o.c.	TSCA, LVOC, TBA, or TWBA	OB500(S) or TWBA	-255 (Lim. 9)

Assemblies with All Layers Adhered over Gypsum Deck (Existing only)							
System No.	Insulation (Note 6)	Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane and Attachment (Note 9)		MDP (psf)
					IB TPO	IB TPO FB	
G-A-1	OPTIONAL Min. 0.5-inch III/III-J	OB500 applied 12-inch o.c.	HD ISO-J	OB500, RSPG or RSIA applied 12-inch o.c.	TWBA, LVOC, TSCA, or TBA	TWBA, RSPG(B), RSPG(S), or OB500(S)	-45 (Lim. 9)

APPENDIX C – APPROVED ASSEMBLIES FOR TPO SINGLE-PLY MEMBRANES

Assemblies with All Layers Adhered over Gypsum Deck (Existing only)							
System No.	Insulation (Note 6)	Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane and Attachment (Note 9)		MDP (psf)
					IB TPO	IB TPO FB	
G-A-2	Min. 1.5-inch <i>III/III-J</i>	OB500 applied 12-inch o.c.	-	-	TWBA, LVOC, TSCA, or TBA	TWBA, RSPG(B), RSPG(S), or OB500(S)	-75 (Lim. 9)
G-A-3	OPTIONAL Min. 1.5-inch <i>III/III-J</i>	OB500 applied 12-inch o.c.		OB500 applied 12-inch o.c.	TBA or TSCA	TWBA, TSCA, RSPG(B), RSPG(S), or OB500(S)	-75 (Lim. 9)
G-A-4	OPTIONAL Min. 1.5-inch <i>III/III-J</i>	OB500 applied 12-inch o.c.	HD ISO-J	OB500 applied 12-inch o.c.	TBA or TSCA		-75 (Lim. 9)
G-A-5	OPTIONAL Min. 1.5-inch <i>III/III-J</i>	OB500 applied 12-inch o.c.	SGF	RSPG or OB500 applied 12-inch o.c.	TWBA, LVOC, TSCA, TCLA, or TBA	TWBA, TSCA, RSPG(B), RSPG(S), or OB500(S)	-75 (Lim. 9)
G-A-6	Min. 0.5-inch <i>II-J</i>	RSIA applied 12-inch o.c.	-	-	TWBA, LVOC, TSCA, or TBA	TWBA, RSPG(B), RSPG(S), or OB500(S)	-77.5 (Lim. 9)
G-A-7	OPTIONAL Min. 0.5-inch <i>II-J</i>	RSIA applied 12-inch o.c.		RSIA applied 12-inch o.c.	TBA	TWBA, TSCA, RSPG(B), RSPG(S), or OB500(S)	-77.5 (Lim. 9)
G-A-8	OPTIONAL Min. 0.5-inch <i>II-J</i>	RSIA applied 12-inch o.c.	HD ISO-J	RSIA applied 12-inch o.c.	TBA or TSCA		-77.5 (Lim. 9)
G-A-9	OPTIONAL Min. 0.5-inch <i>II-J</i>	RSIA applied 12-inch o.c.	SGF	RSPG or RSIA applied 12-inch o.c.	TWBA, LVOC, TSCA, TCLA, or TBA	TWBA, TSCA, RSPG(B), RSPG(S), or OB500(S)	-77.5 (Lim. 9)
G-A-10	-	-	-	-	-	RSPG applied 12-inch o.c.; or RSPG(S)	-85 (Lim. 9)
G-A-11	Min. 1.5-inch <i>III/III-J</i>	OB500 applied 12-inch o.c.	-	-	TWBA, LVOC, TSCA, or TBA	TWBA, OB500(S)	-90 (Lim. 9)
G-A-12	-	-		RSIA applied 12-inch o.c.	TBA or TSCA	TWBA, RSPG(B), RSPG(S), or OB500(S)	-92.5 (Lim. 9)
G-A-13	Min. 1.5-inch <i>III/III-J</i>	RSIA applied 12-inch o.c.	-	-	-	TWBA or OB500(S)	-150 (Lim. 9)
G-A-14	Min. 0.5-inch <i>II-J</i>	RSIA applied 12-inch o.c.	-	-	TBA	-	-150 (Lim. 9)
G-A-15	OPTIONAL Min. 0.5-inch <i>II-J</i>	RSIA applied 12-inch o.c.	HD ISO-J	RSIA applied 12-inch o.c.	TWBA, LVOC, TBA or TSCA	OB500(S)	-150 (Lim. 9)

APPENDIX C – APPROVED ASSEMBLIES FOR TPO SINGLE-PLY MEMBRANES

Assemblies with All Layers Adhered over Gypsum Deck (Existing only)							
System No.	Insulation (Note 6)	Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane and Attachment (Note 9)		MDP (psf)
					IB TPO	IB TPO FB	
G-A-16	OPTIONAL Min. 0.5-inch II-J	RSIA applied 12-inch o.c.	DDP	RSIA applied 12-inch o.c.	TWBA, LVOC, TBA, TSCA, or TCLA	OB500(S)	-150 (Lim. 9)
G-A-17	OPTIONAL Min. 0.5-inch II-J	RSIA applied 12-inch o.c.	SGF	RSIA applied 12-inch o.c.	TWBA, LVOC, TSCA, TCLA, or TBA	TWBA, TSCA, or OB500(S)	-150 (Lim. 9)
G-A-18	OPTIONAL Min. 0.5-inch II-J	RSIA applied 12-inch o.c.	DXC	RSIA applied 12-inch o.c.	LVOC, TWBA, TBA or TSCA	TWBA	-150 (Lim. 9)
G-A-19	OPTIONAL Min. 0.5-inch II-J	RSIA applied 12-inch o.c.	DXF	RSIA applied 12-inch o.c.	LVOC, TWBA, TBA, TSCA, or TCLA	TWBA, TSCA, or OB500(S)	-150 (Lim. 9)
G-A-20	-	-	-	-	-	RSPG applied 6-inch o.c.; or RSPG(S)	-155 (Lim. 9)
G-A-21	Min. 1.5-inch III-J	RSPG applied 12-inch o.c.	-	-	-	TWBA or OB500(S)	-187.5 (Lim. 9)
G-A-22	OPTIONAL Min. 0.5-inch II-J	RSPG applied 12-inch o.c.	HD ISO-J	RSPG applied 12-inch o.c.	TWBA, LVOC, TBA or TSCA	OB500(S)	-187.5 (Lim. 9)
G-A-23	OPTIONAL Min. 0.5-inch II-J	RSPG applied 12-inch o.c.	DDP	RSPG applied 12-inch o.c.	TWBA, LVOC, TBA, TSCA, or TCLA	OB500(S)	-210 (Lim. 9)
G-A-24	OPTIONAL Min. 0.5-inch II-J	RSPG applied 12-inch o.c.	SGF	RSPG applied 12-inch o.c.	TWBA, LVOC, TSCA, TCLA, or TBA	TWBA or OB500(S)	-210 (Lim. 9)
G-A-25	OPTIONAL Min. 0.5-inch II-J	RSPG applied 12-inch o.c.	DXC	RSPG applied 12-inch o.c.	LVOC, TWBA, or TBA	TWBA	-210 (Lim. 9)
G-A-26	OPTIONAL Min. 0.5-inch II-J	RSPG applied 12-inch o.c.	DXF	RSPG applied 12-inch o.c.	LVOC, TWBA, TBA, TSCA, or TCLA	TWBA or OB500(S)	-210 (Lim. 9)
G-A-27	Min. 0.5-inch II-J	RSPG applied 12-inch o.c.	-	-	TBA	OB500(S)	-210 (Lim. 9)
G-A-28	Min. 0.5-inch III-J	RSPG applied 8-inch o.c.	-	-	-	TWBA	-262.5 (Lim 9)
G-A-29	OPTIONAL Min. 0.5-inch III-J	RSPG applied 8-inch o.c.	HD ISO-J, DDP or SGF	RSPG applied 8-inch o.c.	-	TWBA	-262.5 (Lim 9)
G-A-30	Min. 0.5-inch III-J	RSPG applied 8-inch o.c.	-	-	TSCA	-	-277.5 (Lim. 9)
G-A-31	OPTIONAL Min. 0.5-inch III-J	RSPG applied 8-inch o.c.	HD ISO-J, DDP or SGF	RSPG applied 8-inch o.c.	TSCA, LVOC, TBA, or TWBA	OB500(S)	-277.5 (Lim 9)
G-A-32	OPTIONAL Min. 0.5-inch III-J	RSPG applied 8-inch o.c.	SGF	RSPG applied 8-inch o.c.	TWBA, LVOC, TSCA, or TCLA	TWBA or OB500(S)	-292.5 (Lim. 9)

APPENDIX C – APPROVED ASSEMBLIES FOR TPO SINGLE-PLY MEMBRANES

Assemblies with All Layers Adhered over Gypsum Deck (Existing only)							
System No.	Insulation (Note 6)	Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane and Attachment (Note 9)		MDP (psf)
					IB TPO	IB TPO FB	
G-A-33	Min. 0.5-inch II-J	RSPG applied 8-inch o.c.	-	-	LVOC	-	-315 (Lim. 9)
G-A-34	Min. 0.5-inch III/III-J	RSPG applied 8-inch o.c.	-	-	TBA	OB500(S)	-322.5 (Lim. 9)
G-A-35	Min. 0.5-inch II-J	RSPG applied 8-inch o.c.	-	-	TBA or TWBA	-	-322.5 (Lim. 9)
G-A-36	-	-	SGF, DDP or HD ISO-J	RSPG applied 8-inch o.c.	LVOC, TBA, or TWBA	OB500(S)	-322.5 (Lim. 9)
G-A-37	Min. 0.5-inch III/III-J	RSPG applied 8-inch o.c.	DDP	RSPG applied 8-inch o.c.	-	OB500(S)	-337.5 (Lim. 9)
G-A-38	-	-	-	-	-	OB500(S)	-405 (Lim. 9)

Adhered Lightweight Insulating Concrete Assemblies over Concrete Deck (New or Existing)						
System No.	LWIC	Base Insulation (Note 6)	Cover Board	Membrane and Attachment (Note 9)		MDP (psf)
				IB TPO	IB TPO FB	
LC-A-1	Min. 350psi Celcore MF	OPTIONAL Min. 0.5-inch II-J applied in RSIA or RSPG 12-inch o.c.	REB III-J applied in RSIA or RSPG 12-inch o.c.	-	OB500(S)	-45 (Lim. 9)
LC-A-2	Min. 350psi Celcore MF	OPTIONAL Min. 0.5-inch II-J applied in RSIA or RSPG 12-inch o.c.	DDP applied in RSIA or RSPG 12-inch o.c.	-	TWBA	-45 (Lim. 9)
LC-A-3	Min 340psi Celcore MF	Min. 0.5-inch II-J applied in RSPG applied 12-inch o.c.	-	TBA, TWBA, LVOC or TSCA	TWBA or OB500(S)	-77.5 (Lim. 9)
LC-A-4	Min 340psi Celcore MF	OPTIONAL Min. 0.5-inch II-J or III-J applied in RSPG 12-inch o.c.	SGF applied in RSPG 12-inch o.c.	TWBA, LVOC TSCA, TCLA, or TBA	TWBA, TSCA or OB500(S)	-77.5 (Lim. 9)
LC-A-5	Min. 300psi LWIC	Min. 0.5-inch II-J applied in OB500 12-inch o.c.	-	TBA, TWBA, LVOC or TSCA	TWBA or OB500(S)	-80 (Lim. 9)
LC-A-6	Min. 300psi LWIC	OPTIONAL Min. 0.5-inch II-J applied in OB500 12-inch o.c.	SGF applied in OB500 12-inch o.c.	TWBA, LVOC, TSCA, TCLA, or TBA	TWBA, TSCA or OB500(S)	-80 (Lim. 9)
LC-A-7	Min. 350psi Celcore MF	OPTIONAL Min. 0.5-inch II-J applied in RSIA 12-inch o.c.	DXF, SGF, HD ISO-J or REB III-J applied in RSIA 12-inch o.c.	-	TWBA	-90 (Lim. 9)
LC-A-8	Min. 490 psi LWIC or Existing LWIC with MCRF ≥ 164lbf using Trufast VERSA-FAST Fastener	OPTIONAL Min. 0.5-inch III/III-J applied in RSPG 12-inch o.c.	HD ISO-J, DDP, DXF, or SGF applied in RSPG 12-inch o.c.	TBA, LVOC, TSCA, or TWBA	OB500(S) or TWBA	-90 (Lim 9)

APPENDIX C – APPROVED ASSEMBLIES FOR TPO SINGLE-PLY MEMBRANES

Adhered Lightweight Insulating Concrete Assemblies over Concrete Deck (New or Existing)						
System No.	LWIC	Base Insulation (Note 6)	Cover Board	Membrane and Attachment (Note 9)		MDP (psf)
				IB TPO	IB TPO FB	
LC-A-9	Min. 490 psi LWIC or Existing LWIC with MCRF $\geq$ 164lbf using Trufast VERSA-FAST Fastener	Min. 0.5-inch <i>III/III-J</i> applied in RSPG 12-inch o.c.	-	TBA, LVOC, TSCA, or TWBA	OB500(S) or TWBA	-90 (Lim. 9)
LC-A-10	Min. 350psi Celcore MF	OPTIONAL Min. 0.5-inch <i>II-J</i> applied in RSIA applied 12-inch o.c.	HD ISO-J, SGF, or StormX applied in RSIA 12-inch o.c.	-	OB500(S)	-90 (Lim. 9)
LC-A-11	Min. 350psi Celcore MF	OPTIONAL Min. 0.5-inch <i>II-J</i> applied in RSIA applied 12-inch o.c.	DXF or SGF applied in RSPG 12-inch o.c.	-	TWBA	-105 (Lim. 9)
LC-A-12	Min. 390psi Celcore MF	-	-	-	RSPG applied 6-inch o.c.; or RSPG(S)	-112.5 (Lim. 9)
LC-A-13	Min. 350psi Celcore MF	OPTIONAL Min. 0.5-inch <i>II-J</i> applied in RSPG 12-inch o.c.	HD ISO-J or SGF applied in RSPG 12-inch o.c.	-	OB500(S)	-112.5 (Lim. 9)
LC-A-14	Min. 310psi Elastizell with Zell-Crete Fibers	Min. 0.5-inch <i>II-J</i> applied in OB500 12-inch o.c.	-	TBA, TWBA, LVOC or TSCA	TWBA or OB500(S)	-130 (Lim. 9)
LC-A-15	Min. 310psi Elastizell with Zell-Crete Fibers	OPTIONAL Min. 0.5-inch <i>II-J</i> applied in OB500 12-inch o.c.	SGF applied in OB500 12-inch o.c.	TWBA, LVOC, TSCA, TCLA, or TBA	TWBA, TSCA or OB500(S)	-130 (Lim. 9)
LC-A-16	Min. 380psi Concrecel	-	-	-	RSPG(B) or RSPG(S)	-147.5 (Lim. 9)
LC-A-17	Min. 480psi Celcore MF	-	-	-	RSPG(B) or RSPG(S)	-167.5 (Lim. 9)
LC-A-18	Min. 380psi Concrecel	-	-	-	RSPG applied 6-inch o.c.; or RSPG(S)	-172.5 (Lim. 9)
LC-A-19	Min. 350psi Celcore MF	OPTIONAL Min. 0.5-inch <i>II-J</i> applied in RSPG 12-inch o.c.	HD ISO-J or REB <i>III-J</i> applied in RSPG 12-inch o.c.	-	TWBA	-187.5 (Lim. 9)
LC-A-20	Min. 400 psi Celcore MF or Existing LWIC with MCRF $\geq$ 139lbf using Trufast FM-90 Base Sheet Fastener; Surfaced with Celcore SBS	Min. 0.5-inch <i>III/III-J</i> applied in RSPG 8-inch o.c.	-	TSCA, LVOC, TBA, or TWBA	OB500(S) or TWBA	-200 (Lim. 9)
LC-A-21	Min. 300psi Celcore MF	-	-	TSCA, LVOC, or TBA	TSCA or TWBA	-202.5 (Lim. 9)
LC-A-22	Min. 360psi Celcore MF	-	-	-	RSPG applied 8-inch o.c.; or RSPG(S)	-202.5 (Lim. 9)
LC-A-23	Min. 400psi Celcore MF	-	-	-	OB500(S), TSCA, or TWBA	-210 (Lim. 9)

APPENDIX C – APPROVED ASSEMBLIES FOR TPO SINGLE-PLY MEMBRANES

Adhered Lightweight Insulating Concrete Assemblies over Concrete Deck (New or Existing)						
System No.	LWIC	Base Insulation (Note 6)	Cover Board	Membrane and Attachment (Note 9)		MDP (psf)
				IB TPO	IB TPO FB	
LC-A-24	Min. 360psi Celcore MF	-	-	TSCA or LVOC	-	-222.5 (Lim. 9)
LC-A-25	Min. 350psi Celcore MF	OPTIONAL Min. 0.5-inch II-J applied in RSPG 12-inch o.c.	StormX applied in RSPG 12-inch o.c.	-	OB500(S) or TWBA	-240 (Lim. 9)
LC-A-26	Min. 490 psi LWIC or Existing LWIC with MCRF $\geq$ 164lbf using Trufast VERSA-FAST Fastener	OPTIONAL Min. 0.5-inch II/III-J applied in OB500 12-inch o.c.	HD ISO-J, DDP or SGF applied in OB500 12-inch o.c.	TWBA, TBA or LVOC	-	-240 (Lim 9)
LC-A-27	Min. 490 psi LWIC or Existing LWIC with MCRF $\geq$ 164lbf using Trufast VERSA-FAST Fastener	OPTIONAL Min. 0.5-inch II/III-J applied in OB500 12-inch o.c.	HD ISO-J, DDP, DXF, or SGF applied in OB500 12-inch o.c.	TSCA	OB500(S) or TWBA	-240 (Lim 9)
LC-A-28	Min. 490 psi LWIC or Existing LWIC with MCRF $\geq$ 164lbf using Trufast VERSA-FAST Fastener	Min. 0.5-inch II/III-J applied in OB500 12-inch o.c.	-	TWBA, TBA or LVOC	OB500(S) or TWBA	-240 (Lim 9)
LC-A-29	Min. 380psi Concrecel	-	-	LVOC or TBA	-	-257.5 (Lim. 9)
LC-A-30	Min. 480psi Celcore MF	-	-	-	RSPG applied 4-inch o.c.; or RSPG(S)	-257.5 (Lim. 9)
LC-A-31	Min. 250psi Elastizell with Zell-Crete Fibers (no EPS Board)	-	-	-	RSPG applied 6-inch o.c. or RSPG(S)	-290 (Lim. 9)
LC-A-32	Min. 280 psi LWIC with MCRF $\geq$ 141lbf using Trufast VERSA-FAST Fastener	-	-	TWBA	-	-292.5 (Lim. 9)
LC-A-33	Min. 360psi Celcore MF	-	-	TBA	-	-337.5 (Lim. 9)
LC-A-34	Min. 290psi Celcore MF	-	-	-	OB500(B)	-345 (Lim. 9)
LC-A-35	Min. 490 psi LWIC or Existing LWIC with MCRF $\geq$ 164lbf using Trufast VERSA-FAST Fastener	-	-	-	OB500(S)	-375 (Lim. 9)
LC-A-36	Min. 360psi Celcore MF	-	-	-	RSPG applied 8-inch o.c. or RSPG(S)	-502.5 (Lim. 9)
LC-A-37	Min. 290psi Celcore MF	-	-	TSCA, LVOC, or TBA	OB500(S), TSCA, or TWBA	-502.5 (Lim. 9)
LC-A-38	Min. 300psi Concrecel; or Existing LWIC with MCRF $\geq$ 105lbf using Trufast VERSA-FAST Fastener	-	-	TSCA, LVOC, or TBA	RSPG(S), OB500(S), TSCA, or TWBA	-502.5 (Lim. 9)

APPENDIX C – APPROVED ASSEMBLIES FOR TPO SINGLE-PLY MEMBRANES

Mechanically Fastened Lightweight Concrete Assemblies over Concrete Deck (New, Existing, or Recover)						
System No.	LWIC	Insulation/Cover Board	Insulation/Cover Board Attachment	Membrane	Membrane Attachment	MDP (psf)
LC-M-1	Min. 270psi Celcore MF; or Existing LWIC with MCRF $\geq$ 96lbf using Trufast VERSA-FAST Fastener	-	-	IB TPO SM (Min. 60 mil)	Attached in-lap 6-inch o.c. with VERSA-FAST secured 4 Fasteners (Trapezoid) /Plate; Fastener rows max. 90-inch o.c.	-60 (Lim. 7)
LC-M-2	Min. 200psi Elastizell with Zell-Crete Fibers	-	-	IB TPO	Attached in-lap 6-inch o.c. with Seam Plates; Fastener rows max. 90-inch o.c.	-67.5 (Lim. 7)
LC-M-3	Min. 270psi Celcore MF; or Existing LWIC with MCRF $\geq$ 96lbf using Trufast VERSA-FAST Fastener	-	-	IB TPO SM (Min. 60 mil)	Attached in-lap 6-inch o.c. with VERSA-FAST secured 4 Fasteners (Trapezoid) /Plate; Fastener rows max. 66-inch o.c.	-67.5 (Lim. 7)
LC-M-4	Min. 270psi Celcore MF; or Existing LWIC with MCRF $\geq$ 96lbf using Trufast VERSA-FAST Fastener	-	-	IB TPO	OMG Polymer Batten Strip spaced 30-inch o.c. and secured with Trufast VERSA-FAST fasteners spaced 3-inch o.c.; Battens covered with min. 5-inch wide IB TPO cover strip	-67.5 (Lim. 7)

Induction Welded Lightweight Concrete Assemblies over Concrete Deck (New or Existing) (New, Existing, or Recover)						
System No.	LWIC	Insulation/Cover Board	Insulation/Cover Board Attachment	Membrane	Membrane Attachment (Note 12)	MDP (psf)
LC-W-1	Min. 200psi Elastizell with Zell-Crete Fibers	-	OMG RhinoBond Insulation Plate (TPO) and OMG Heavy Duty secured (into Concrete Deck) 6-inch o.c. in rows spaced 96-inch o.c.	IB TPO SM (Min. 60 mil)	Induction welded to plates	-60 (Lim. 7)

Adhered Lightweight Concrete Assemblies over Steel Deck (New or Existing)							
System No.	Deck Detail	LWIC	Base Insulation (Note 6)	Cover Board	Membrane and Attachment		MDP (psf)
					IB TPO	IB TPO FB	
LS-A-1	G33	Min. 700psi LWIC (MCRF ≥ 121lbf with OMG CR Base Sheet Fastener 1.7)	-	-	-	OB500(S)	-52.5 (Lim. 9)
LS-A-2	G33	Min. 420 psi LWIC or Existing LWIC with MCRF ≥ 128lbf using FM-90 Base Sheet Fastener	OPTIONAL Min. 1-inch II/III-J adhered in RSPG applied 12-inch o.c.	HD ISO-J, SGF, DDP, or DXF adhered in RSPG applied 12-inch o.c.	LVOC, TBA, TSCA, or TWBA	TWBA or OB500(S)	-60 (Lim. 9)
LS-A-3	G33	Min. 420 psi LWIC or Existing LWIC with MCRF ≥ 128lbf using FM-90 Base Sheet Fastener	Min. 1-inch II/III-J adhered in RSPG applied 12-inch o.c.	-	LVOC, TBA, TSCA, or TWBA	OB500(S)	-60 (Lim. 9)
LS-A-4	G33	Min. 470 psi LWIC (MCRF ≥135 lbf with Trufast FM-90 Base Sheet Fastener)	-	Min. 0.5-inch II/III-J, HD ISO-J, DDP, or SGF applied in RSPG(H)	LVOC, TBA, TSCA, or TWBA	TWBA or OB500(S)	-67.5 (Lim. 9)
LS-A-5	G33	Min. 290psi Celcore MF over deck treated with Celcore S-1	-	-	TSCA, LVOC, or TBA	OB500(S), TSCA, or TWBA	-90 (Lim. 9)
LS-A-6	G80	Min. 250psi Elastizell with Zell-Crete Fibers	-	-	LVOC	RSPG applied 6-inch o.c. or RSPG(S)	-97.5 (Lim. 9)

APPENDIX C – APPROVED ASSEMBLIES FOR TPO SINGLE-PLY MEMBRANES

Adhered Lightweight Concrete Assemblies over Steel Deck (New or Existing)							
System No.	Deck Detail	LWIC	Base Insulation (Note 6)	Cover Board	Membrane and Attachment		MDP (psf)
					IB TPO	IB TPO FB	
LS-A-7	24ga., 15/16-inch HD steel deck	Min. 420psi Celcore MF over deck treated with Celcore S-1	-	-	TSCA, LVOC, or TBA	RSPG(S), OB500(S), TSCA, or TWBA	-97.5 (Lim. 9)
LS-A-8	G40	Min. 420psi Celcore MF with Celcore SBS over deck treated with Celcore S-1	-	-	-	OB500(S)	-157.5 (Lim. 9)

Mechanically Fastened Lightweight Insulating Concrete Assemblies over Steel Deck (New, Existing, or Recover)							
System No.	Deck Detail	LWIC	Insulation/Cover Board	Insulation/Cover Board Attachment	Membrane	Membrane Attachment (Note 12)	MDP (psf)
LS-M-1	G33	Min. 290psi Celcore MF over deck treated with Celcore S-1; or Existing LWIC with MCRF $\geq$ 96lbf using Trufast VERSA-FAST Fastener	-	-	IB TPO SM (Min. 60 mil)	Attached in-lap 6-inch o.c. with VERSA-FAST secured 4 Fasteners (Trapezoid) /Plate; Fastener rows max. 114-inch o.c.	-37.5 (Lim. 7)
LS-M-2	G33	Min. 270psi Celcore MF over deck treated with Celcore S-1; or Existing LWIC with MCRF $\geq$ 96lbf using Trufast VERSA-FAST Fastener	-	-	IB TPO SM (Min. 60 mil)	Attached in-lap 6-inch o.c. with VERSA-FAST secured 4 Fasteners (Trapezoid) /Plate; Fastener rows max. 90-inch o.c.	-60 (Lim. 7)
LS-M-3	G33	Min. 200psi Elastizell with Zell-Crete Fibers	-	-	IB TPO	Attached in-lap 6-inch o.c. with Seam Plates; Fastener rows max. 90-inch o.c.	-67.5 (Lim. 7)
LS-M-4	G33	Min. 270psi Celcore MF over deck treated with Celcore S-1; or Existing LWIC with MCRF $\geq$ 96lbf using Trufast VERSA-FAST Fastener	-	-	IB TPO SM (Min. 60 mil)	Attached in-lap 6-inch o.c. with VERSA-FAST secured 4 Fasteners (Trapezoid) /Plate; Fastener rows max. 66-inch o.c.	-67.5 (Lim. 7)
LS-M-5	G33	Min. 270psi Celcore MF over deck treated with Celcore S-1; or Existing LWIC with MCRF $\geq$ 96lbf using Trufast VERSA-FAST Fastener	-	-	IB TPO	OMG Polymer Batten Strip spaced 30-inch o.c. and secured with Trufast VERSA-FAST fasteners spaced 3-inch o.c.; Battens covered with min. 5-inch wide IB TPO cover strip	-67.5 (Lim. 7)

Induction Welded Lightweight Insulating Concrete Assemblies over Steel Deck (New or Existing) (New, Existing, or Recover)							
System No.	Deck Detail	LWIC	Insulation/Cover Board	Insulation/Cover Board Attachment	Membrane	Membrane Attachment	MDP (psf)
LS-W-1	G33	Min. 200psi Elastizell with Zell-Crete Fibers	-	OMG RhinoBond Insulation Plate (TPO) and OMG #15 Roofgrip (into Steel Deck) secured 6-inch o.c. in rows spaced 96-inch o.c.	IB TPO SM (Min. 60 mil)	Induction welded to plates	-60 (Lim. 7)

APPENDIX C – APPROVED ASSEMBLIES FOR TPO SINGLE-PLY MEMBRANES

Adhered Recover Assemblies						
System No.	Existing Roof (Note 13)	Base Insulation (Note 6)	Top Insulation	Membrane and Attachment (Note 9)		MDP (psf)
				IB TPO	IB TPO FB	
R-A-1	BUR or Mod-Bit Roofing with mineral surfacing	-	-	-	RSPG(B), RSPG(S) or OB500(S)	-45 (Lim. 9)
R-A-2	BUR or Granular Mod-Bit Roofing	-	DDP in RSPG applied 12-inch o.c.	-	RSPG(B) or RSPG(S)	-45 (Lim. 9)
R-A-3	BUR or Granular Mod-Bit Roofing	OPTIONAL Min. 0.5-inch II-J in RSPG, RSIA or OB500 applied 12-inch o.c.	DDP or StormX in RSPG applied 12-inch o.c.	-	RSPG(B) or RSPG(S)	-45 (Lim. 9)
R-A-4	BUR or Granular Mod-Bit Roofing	-	DDP in OB500 or RSPG applied 12-inch o.c.	-	OB500(S)	-45 (Lim. 9)
R-A-5	BUR or Smooth SBS Mod-Bit Roofing	-	-	-	RSPG(B)	-45 (Lim. 9)
R-A-6	BUR or Granular Mod-Bit Roofing	OPTIONAL Min. 0.5-inch II-J in RSPG, OB500, or RSIA applied 12-inch o.c.	REB III-J in RSPG, OB500, or RSIA applied 12-inch o.c.	LVOC or TCLA	-	-105 (Lim. 9)
R-A-7	BUR or Granular Mod-Bit Roofing	OPTIONAL Min. 0.5-inch II-J in RSPG, OB500, or RSIA applied 12-inch o.c.	HD ISO-J in RSPG, OB500, or RSIA applied 12-inch o.c.	TBA, LVOC, TSCA, TCLA or TWBA	TWBA or OB500(S)	-105 (Lim. 9)
R-A-8	BUR or Granular Mod-Bit Roofing	OPTIONAL Min. 0.5-inch II-J in RSPG, OB500, or RSIA applied 12-inch o.c.	DXF in RSPG or RSIA applied 12-inch o.c.	TWBA or TSCA	OB500(S) or TWBA	-105 (Lim. 9)
R-A-9	BUR or Granular Mod-Bit Roofing	OPTIONAL Min. 0.5-inch II-J in RSPG, OB500, or RSIA applied 12-inch o.c.	SGF or DDP in RSPG, OB500, or RSIA applied 12-inch o.c.	LVOC, TWBA, TSCA or TCLA	OB500(S) or TWBA	-105 (Lim. 9)
R-A-10	BUR or Granular Mod-Bit Roofing	OPTIONAL Min. 0.5-inch II-J in RSPG, OB500, or RSIA applied 12-inch o.c.	REB III-J in RSPG, OB500, or RSIA applied 12-inch o.c.	-	RSPG(S) or RSPG applied 4-inch o.c.	-112.5 (Lim. 9)
R-A-11	BUR	-	-	-	RSPG(S)	-150 (Lim. 9)
R-A-12	BUR or Granular Mod-Bit Roofing	Min. 1-inch II-J in RSPG, OB500, or RSIA applied 12-inch o.c.	-	TBA, LVOC, TSCA, TCLA or TWBA	OB500(S), RSPG(B) or RSPG(S)	-157.5 (Lim. 9)
R-A-13	BUR or Granular Mod-Bit Roofing	OPTIONAL Min. 0.5-inch II-J in RSPG, OB500, or RSIA applied 12-inch o.c.	DXF in RSPG or RSIA applied 12-inch o.c.	TWBA	-	-180 (Lim. 9)
R-A-14	BUR or Granular Mod-Bit Roofing	OPTIONAL Min. 0.5-inch II-J adhered in RSPG, OB500, or RSIA applied 12-inch o.c.	SGF or DDP in RSPG, OB500, or RSIA applied 12-inch o.c.	TBA, LVOC, TWBA, TSCA or TCLA	OB500(S) or TWBA	-180 (Lim. 9)
R-A-15	BUR or Granular Mod-Bit Roofing	OPTIONAL Min. 0.5-inch II-J in RSPG, OB500, or RSIA applied 12-inch o.c.	REB III-J in RSPG, OB500, or RSIA applied 12-inch o.c.	-	TWBA	-187.5 (Lim. 9)

APPENDIX C – APPROVED ASSEMBLIES FOR TPO SINGLE-PLY MEMBRANES

Adhered Recover Assemblies						
System No.	Existing Roof (Note 13)	Base Insulation (Note 6)	Top Insulation	Membrane and Attachment (Note 9)		MDP (psf)
				IB TPO	IB TPO FB	
R-A-16	BUR or Granular Mod-Bit Roofing	OPTIONAL Min. 0.5-inch II-J in RSPG, OB500, or RSIA applied 12-inch o.c.	HD ISO-J in RSPG, OB500, or RSIA applied 12-inch o.c.	TWBA	TWBA	-187.5 (Lim. 9)
R-A-17	BUR or Granular Mod-Bit Roofing	OPTIONAL Min. 0.5-inch II-J in RSPG, OB500, or RSIA applied 12-inch o.c.	REB III-J in RSPG, OB500, or RSIA applied 12-inch o.c.	TWBA	-	-195 (Lim. 9)
R-A-18	BUR or Granular Mod-Bit Roofing	OPTIONAL Min. 0.5-inch II-J in RSPG, OB500, or RSIA applied 12-inch o.c.	HD ISO-J in RSPG, OB500, or RSIA applied 12-inch o.c.	LVOC	OB500(S)	-210 (Lim. 9)
R-A-19	BUR or Granular Mod-Bit Roofing	OPTIONAL Min. 0.5-inch II-J adhered in RSPG, OB500, or RSIA applied 12-inch o.c.	REB III-J in RSPG, OB500, or RSIA applied 12-inch o.c.	TCLA, LVOC, TBA or TWBA	OB500(S) or TWBA	-217.5 (Lim. 9)
R-A-20	BUR or Granular Mod-Bit Roofing	OPTIONAL Min. 0.5-inch II-J in RSPG, OB500, or RSIA applied 12-inch o.c.	DXF in RSPG or RSIA applied 12-inch o.c.	TSCA, LVOC, TWBA, TBA or TCLA	OB500(S) or TWBA	-217.5 (Lim. 9)
R-A-21	BUR or Granular Mod-Bit Roofing	OPTIONAL Min. 0.5-inch II-J in RSPG, RSIA or OB500 applied 12-inch o.c.	DDP or StormX in RSPG applied 12-inch o.c.	TSCA, LVOC, TBA or TWBA	RSPG applied 4-inch o.c.; or OB500(S), TWBA, or RSPG(S)	-217.5 (Lim. 9)
R-A-22	Granular BUR or Granular Mod-Bit Roofing	Min. 0.5-inch II-J in RSPG applied 12-inch o.c.	-	TBA or TCLA	-	-210 (Lim. 9)
R-A-23	BUR or Granular Mod-Bit Roofing	OPTIONAL Min. 0.5-inch II-J in RSPG, OB500, or RSIA applied 12-inch o.c.	HD ISO-J in RSPG, OB500, or RSIA applied 12-inch o.c.	TSCA, LVOC, TBA or TWBA	OB500(S) or TWBA	-225 (Lim. 9)
R-A-24	Granular BUR or Granular Mod-Bit Roofing	-	DDP in RSPG applied 12-inch o.c.	-	RSPG applied 12-inch o.c.	-247.5 (Lim. 9)
R-A-25	Granular BUR or Granular Mod-Bit Roofing	Min. 0.5-inch III-J in RSPG applied 12-inch o.c.	-	-	TWBA	-262.5 (Lim. 9)
R-A-26	Granular BUR or Granular Mod-Bit Roofing	Min. 0.5-inch II-J in RSPG applied 12-inch o.c.	HD ISO-J, DDP or SGF in RSPG applied 12-inch o.c.	-	TWBA	-277.5 (Lim. 9)
R-A-27	Granular BUR or Granular Mod-Bit Roofing	Min. 0.5-inch II-J in SPG applied 12-inch o.c.	-	TSCA	-	-277.5 (Lim. 9)
R-A-28	Granular BUR or Granular Mod-Bit Roofing	Min. 0.5-inch II-J in RSPG applied 12-inch o.c.	HD ISO-J, DDP or SGF in RSPG applied 12-inch o.c.	TSCA, LVOC, TBA or TWBA	OB500(S) or TWBA	-277.5 (Lim. 9)
R-A-29	Granular BUR or Granular Mod-Bit Roofing	Min. 0.5-inch II-J in RSPG applied 12-inch o.c.	-	TBA or TWBA	OB500(S) or TWBA	-322.5 (Lim. 9)
R-A-30	Granular BUR or Granular Mod-Bit Roofing	Min. 0.5-inch III-J in RSPG applied 12-inch o.c.	-	LVOC, TBA or TWBA	OB500(S) or TWBA	-322.5 (Lim. 9)
R-A-31	Granular BUR or Granular Mod-Bit Roofing	-	SGF, DDP, or HD ISO-J in RSPG applied 12-inch o.c.	LVOC, TBA, or TWBA	OB500(S) or TWBA	-322.5 (Lim. 9)
R-A-32	Smooth SBS Mod-Bit Roofing	-	-	-	RSPG(S)	-330 (Lim. 9)

APPENDIX C – APPROVED ASSEMBLIES FOR TPO SINGLE-PLY MEMBRANES

Adhered Recover Assemblies						
System No.	Existing Roof (Note 13)	Base Insulation (Note 6)	Top Insulation	Membrane and Attachment (Note 9)		MDP (psf)
				IB TPO	IB TPO FB	
R-A-33	BUR or Granular Mod-Bit Roofing	-	DDP in OB500 applied 12-inch o.c.	LVOC, TBA, or TWBA	OB500(S) or TWBA	-337.5 (Lim. 9)
R-A-34	Granular BUR or Granular Mod-Bit Roofing	-	-	-	RSPG(B) or RSPG(S)	-440 (Lim. 9)
R-A-35	Granular BUR or Granular Mod-Bit Roofing	-	-	-	OB500(S) at 6lbs/100ft ²	-502.5 (Lim. 9)

Mechanically Fastened Recover Assemblies								
System No.	Deck Detail	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment (Note 12)	MDP (psf)
R-M-1	Steel Deck (G33) or Concrete Deck	OPTIONAL INSULATION	Preliminarily Secured or secured with top layer	Min. 0.5-inch II/III-J or Cover Board (Insulation is OPTIONAL with IB TPO FB)	Preliminarily Secured	IB TPO or IB TPO FB	Attached in-lap 12-inch o.c. with OMG #15 Roofgrip and OMG 2-3/4" Super XHD Barbed Plate for Steel Deck or OMG Heavy Duty and OMG 2-3/4" Super XHD Barbed Plate for Concrete Deck; Fastener rows max. 114-inch o.c.	-30 (Lim. 7)
R-M-2	Steel Deck (G33) or Concrete Deck	OPTIONAL INSULATION	Preliminarily Secured or secured with top layer	Min. 0.5-inch II/III-J or Cover Board (Insulation is OPTIONAL with IB TPO FB)	Preliminarily Secured	IB TPO or IB TPO FB	Attached in-lap 12-inch o.c. with Seam Plates; Fastener rows max. 114-inch o.c.	-30 (Lim. 7)
R-M-3	Steel Deck (G80) or Concrete Deck	OPTIONAL INSULATION	Preliminarily Secured or secured with top layer	Min. 0.5-inch II/III-J or Cover Board	Preliminarily Secured	IB TPO (Min. 60 mil)	Attached in-lap 12-inch o.c. with Seam Plates; Fastener rows max. 90-inch o.c.	-37.5 (Lim. 7)
R-M-4	Wood Deck (T19/32P)	OPTIONAL INSULATION	Preliminarily Secured or secured with top layer	Min. 0.5-inch II/III-J or Cover Board (Insulation is OPTIONAL with IB TPO FB)	Preliminarily Secured	IB TPO or IB TPO FB	Attached in-lap 4-inch o.c. with 2" Barbed; Fastener rows max. 114-inch o.c.	-37.5 (Lim. 7)
R-M-5	Existing metal roof having Min. 16 ga. steel purlins	-	-	OPTIONAL INSULATION	Preliminarily Secured	IB TPO	Attached in-lap 12-inch o.c. with OMG Purlin and OMG Eyehook Accuseam Plate to structural supports; Fastener rows max. 114-inch o.c.	-37.5 (Lim. 7)

APPENDIX C – APPROVED ASSEMBLIES FOR TPO SINGLE-PLY MEMBRANES

Mechanically Fastened Recover Assemblies								
System No.	Deck Detail	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment (Note 12)	MDP (psf)
R-M-6	Existing metal roof having Min. 16 ga. steel purlins	Min. 1.5-inch II/III-J or EPS placed between ribs	<i>Preliminarily Secured</i> or secured with top layer	Min. 1-inch II/III-J or Cover Board	<i>Preliminarily Secured</i>	IB TPO or IB TPO FB	Attached in-lap 12-inch o.c. with OMG Purlin and OMG Eyehook Accuseam Plate to structural supports; Fastener rows max. 60-inch o.c.	-37.5 (Lim. 7)
R-M-7	Existing metal roof having Min. 14 ga. steel purlins	Min. 1.5-inch II/III-J or EPS placed between ribs	<i>Preliminarily Secured</i> or secured with top layer	Min. 1-inch II/III-J or Cover Board	<i>Preliminarily Secured</i>	IB TPO or IB TPO FB	Attached in-lap 12-inch o.c. with OMG Purlin and OMG Eyehook Accuseam Plate to structural supports; Fastener rows max. 60-inch o.c.	-45 (Lim. 7)
R-M-8	Steel Deck (G80) or Concrete Deck	OPTIONAL INSULATION	<i>Preliminarily Secured</i> or secured with top layer	Min. 0.5-inch II/III-J or Cover Board	<i>Preliminarily Secured</i>	IB TPO	Attached in-lap 12-inch o.c. with OMG #15 Roofgrip and OMG 2-3/4" Super XHD Barbed Plate for Steel Deck or OMG Heavy Duty and OMG 2-3/4" Super XHD Barbed Plate for Concrete Deck; Fastener rows max. 90-inch o.c.	-45 (Lim. 7)
R-M-9	Steel Deck (G80) or Concrete Deck	OPTIONAL INSULATION	<i>Preliminarily Secured</i> or secured with top layer	Min. 0.5-inch II/III-J or Cover Board (Insulation is OPTIONAL with IB TPO FB)	<i>Preliminarily Secured</i>	IB TPO or IB TPO FB	Attached in-lap 12-inch o.c. with 3" Maxload; Fastener rows max. 114-inch o.c.	-45 (Lim. 7)
R-M-10	Steel Deck (G80) or Concrete Deck	OPTIONAL INSULATION	<i>Preliminarily Secured</i> or secured with top layer	Min. 0.5-inch II/III-J or Cover Board (Insulation is OPTIONAL with IB TPO FB)	<i>Preliminarily Secured</i>	IB TPO or IB TPO FB	Attached in-lap 6-inch o.c. with Seam Plates; Fastener rows max. 114-inch o.c.	-45 (Lim. 7)
R-M-11	Existing metal roof having Min. 16 ga. steel purlins	-	-	OPTIONAL INSULATION	<i>Preliminarily Secured</i>	IB TPO	Attached in-lap 6-inch o.c. with OMG Purlin and OMG Eyehook Accuseam Plate to structural supports; Fastener rows max. 114-inch o.c.	-45 (Lim. 7)
R-M-12	Steel Deck (G80) or Concrete Deck	OPTIONAL INSULATION	<i>Preliminarily Secured</i> or secured with top layer	Min. 0.5-inch II/III-J or Cover Board (Insulation is OPTIONAL with IB TPO FB)	<i>Preliminarily Secured</i>	IB TPO or IB TPO FB	Attached in-lap 6-inch o.c. with 3" Maxload; Fastener rows max. 114-inch o.c.	-52.5 (Lim. 7)
R-M-13	Wood Deck (T19/32P, L24)	OPTIONAL INSULATION	<i>Preliminarily Secured</i> or secured with top layer	Min. 0.5-inch II/III-J or Cover Board (Insulation is OPTIONAL with IB TPO FB)	<i>Preliminarily Secured</i>	IB TPO or IB TPO FB	Attached in-lap 6-inch o.c. with Seam Plates; Fastener rows max. 54-inch o.c.	-60 (Lim. 7)

APPENDIX C – APPROVED ASSEMBLIES FOR TPO SINGLE-PLY MEMBRANES

Mechanically Fastened Recover Assemblies								
System No.	Deck Detail	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment (Note 12)	MDP (psf)
R-M-14	Steel Deck (G80) or Concrete Deck	OPTIONAL INSULATION	Preliminarily Secured or secured with top layer	Min. 0.5-inch II/III-J or Cover Board	Preliminarily Secured	IB TPO	Attached in-lap 6-inch o.c. with Seam Plates; Fastener rows max. 90-inch o.c.	-60 (Lim. 7)
R-M-15	Steel Deck (G33) or Concrete Deck	OPTIONAL INSULATION	Preliminarily Secured or secured with top layer	Min. 0.5-inch II/III-J or Cover Board (Insulation is OPTIONAL with IB TPO FB)	Preliminarily Secured	IB TPO or IB TPO FB	Attached in-lap 6-inch o.c. with Seam Plates; Fastener rows max. 114-inch o.c.	-60 (Lim. 7)
R-M-16	Existing metal roof having Min. 16 ga. steel purlins	Min. 1.5-inch II/III-J or EPS placed between ribs	Preliminarily Secured or secured with top layer	Min. 1-inch II/III-J or Cover Board	Preliminarily Secured	IB TPO	Attached in-lap 6-inch o.c. with OMG Purlin and OMG Eyehook Accuseam Plate to structural supports; Fastener rows max. 114-inch o.c.	-60 (Lim. 7)
R-M-17	Existing metal roof over Min. 16 ga. steel purlins	-	-	OPTIONAL INSULATION	Preliminarily Secured	IB TPO	Attached in-lap 6-inch o.c. with OMG Purlin and OMG Eyehook Accuseam Plate to structural supports; Fastener rows max. 90-inch o.c.	-60 (Lim. 7)
R-M-18	Existing metal roof over Min. 16 ga. steel purlins	Min. 1.5-inch II/III-J or EPS placed between ribs	Preliminarily Secured or secured with top layer	Min. 1-inch II/III-J or Cover Board	Preliminarily Secured	IB TPO SM (Min. 60 mil)	Attached in-lap 6-inch o.c. with OMG Purlin and OMG Eyehook Accuseam Plate to structural supports; Fastener rows max. 138-inch o.c.	-67.5 (Lim. 7)
R-M-19	Steel Deck (G33) or Concrete Deck	OPTIONAL INSULATION	Preliminarily Secured or secured with top layer	Min. 0.5-inch II/III-J or Cover Board	Preliminarily Secured	IB TPO	Attached in-lap 6-inch o.c. with Seam Plates; Fastener rows max. 90-inch o.c.	-75 (Lim. 7)
R-M-20	Existing metal roof over Min. 16 ga. steel purlins	Min. 1.5-inch II/III-J or EPS placed between ribs	Preliminarily Secured or secured with top layer	Min. 1-inch II/III-J or Cover Board	Preliminarily Secured	IB TPO	Attached in-lap 6-inch o.c. with OMG Purlin and OMG Eyehook Accuseam Plate to structural supports; Fastener rows max. 90-inch o.c.	-75 (Lim. 7)
R-M-21	Existing metal roof over Min. 16 ga. steel purlins	Min. 1.5-inch II/III-J or EPS placed between ribs	Preliminarily Secured or secured with top layer	Min. 1-inch II/III-J or Cover Board	Preliminarily Secured	IB TPO	Attached in-lap 6-inch o.c. with OMG Purlin and OMG Eyehook Accuseam Plate to structural supports; Fastener rows max. 60-inch o.c.	-82.5 (Lim. 7)
R-M-22	Existing metal roof over Min. 16 ga. steel purlins	Min. 1.5-inch II/III-J or EPS placed between ribs	Preliminarily Secured or secured with top layer	Min. 1-inch II/III-J or Cover Board	Preliminarily Secured	IB TPO	Attached in-lap 6-inch o.c. with OMG Purlin and OMG Eyehook Accuseam Plate to structural supports; Fastener rows max. 54-inch o.c.	-97.5 (Lim. 7)

APPENDIX C – APPROVED ASSEMBLIES FOR TPO SINGLE-PLY MEMBRANES

Mechanically Fastened Recover Assemblies								
System No.	Deck Detail	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment (Note 12)	MDP (psf)
R-M-23	Steel Deck (G33) or Concrete Deck	OPTIONAL INSULATION	Preliminarily Secured or secured with top layer	Min. 0.5-inch II/III-J or Cover Board (Insulation is OPTIONAL with IB TPO FB)	Preliminarily Secured	IB TPO or IB TPO FB	Attached in-lap 6-inch o.c. with Seam Plates; Fastener rows max. 54-inch o.c.	-97.5 (Lim. 7)
R-M-24	Existing metal roof over Min. 16 ga. steel purlins	Min. 1.5-inch II/III-J or EPS placed between ribs	Preliminarily Secured or secured with top layer	Min. 1-inch II/III-J or Cover Board	Preliminarily Secured	IB TPO SM (Min. 60 mil)	Attached in-lap 6-inch o.c. with OMG Purlin and OMG Eyehook Accuseam Plate to structural supports; Fastener rows max. 66-inch o.c.	-105 (Lim. 7)

Induction Welded Recover Assemblies								
System No.	Existing Roof	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment (Note 12)	MDP (psf)
R-W-1	Existing metal roof over Min. 16 ga. steel purlins	Min. 1.5-inch II/III-J or EPS placed between ribs	Preliminarily Secured or secured with top layer	Min. 1-inch II/III-J or Cover Board	OMG Purlin and OMG RhinoBond Insulation Plate (TPO) secured 18-inch o.c. into the purlins with fastener rows max. 60-inch o.c.	IB TPO SM (Min. 60 mil)	Induction welded to weld plates	-45 (Lim. 7)
R-W-2	Existing metal roof over Min. 16 ga. steel purlins	Min. 1.5-inch II/III-J or EPS placed between ribs	Preliminarily Secured or secured with top layer	Min. 1-inch II/III-J or Cover Board	OMG Purlin and OMG RhinoBond Insulation Plate (TPO) secured 6-inch o.c. into the purlins with fastener rows max. 120-inch o.c.	IB TPO SM (Min. 60 mil)	Induction welded to weld plates	-45 (Lim. 7)
R-W-3	Existing metal roof over Min. 16 ga. steel purlins	Min. 1.5-inch II/III-J or EPS placed between ribs	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	ISOWELD-#12 or ISOWELD-#15 secured 12-inch o.c. into the purlins with fastener rows max. 60-inch o.c.	IB TPO SM (Min. 60 mil)	Induction welded to weld plates	-45 (Lim. 7)
R-W-4	Steel Deck (G33) or Concrete Deck	OPTIONAL Min. 1.5-inch INSULATION	Preliminarily Secured or secured with top layer	Min. 0.5-inch II/III-J or Cover Board	OMG #15 Roofgrip and OMG RhinoBond Insulation Plate (TPO), Trufast TPO IW Plates, or isoweld FI-P-6.8-TPO plates secured 8 per 4-ft x 8-ft board Pattern #1 (1 fastener per 4.0-ft ²)	IB TPO SM (Min. 60 mil)	Induction welded to weld plates	-45 (Lim. 7)
R-W-5	Existing metal roof over Min. 16 ga. steel purlins	Min. 1.5-inch II/III-J or EPS placed between ribs	Preliminarily Secured or secured with top layer	Min. 1-inch II/III-J or Cover Board	OMG Purlin and OMG RhinoBond Insulation Plate (TPO) secured 12-inch o.c. into the purlins with fastener rows max. 72-inch o.c.	IB TPO SM (Min. 60 mil)	Induction welded to weld plates	-45 (Lim. 7)

APPENDIX C – APPROVED ASSEMBLIES FOR TPO SINGLE-PLY MEMBRANES

Induction Welded Recover Assemblies								
System No.	Existing Roof	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment (Note 12)	MDP (psf)
R-W-6	Wood Deck (T15/32P, L24)	OPTIONAL INSULATION	<i>Preliminarily Secured</i> or secured with top layer	Min. 0.5-inch II/III-J or Cover Board	Min. 2.25-inch OMG Heavy Duty and OMG RhinoBond Insulation Plate (TPO), Trufast TPO IW Plates, or <i>isoweld</i> FI-P-6.8-TPO plates secured max. 24-inch o.c. through sheathing into wood structural supports in rows max. 24-inch o.c.	IB TPO SM (Min. 60 mil)	Induction welded to weld plates	-52.5 (Lim. 7)
R-W-7	Wood Deck (T15/32P, L24)	OPTIONAL INSULATION	<i>Preliminarily Secured</i> or secured with top layer	Min. 0.5-inch II/III-J or Cover Board	Min. 2.25-inch OMG Heavy Duty and OMG RhinoBond Insulation Plate (TPO), Trufast TPO IW Plates, or <i>isoweld</i> FI-P-6.8-TPO plates secured max. 9-inch o.c. through sheathing into wood structural supports in rows max. 48-inch o.c.	IB TPO SM (Min. 60 mil)	Induction welded to weld plates	-60 (Lim. 7)
R-W-8	Existing metal roof over Min. 16 ga. steel purlins	Min. 1.5-inch II/III-J or EPS placed between ribs	<i>Preliminarily Secured</i> or secured with top layer	Min. 1-inch II/III-J or Cover Board	OMG Purlin and OMG RhinoBond Insulation Plate (TPO) secured 12-inch o.c. into the purlins with fastener rows max. 60-inch o.c.	IB TPO SM (Min. 60 mil)	Induction welded to weld plates	-67.5 (Lim. 7)
R-W-9	Steel Deck (G33) or Concrete Deck	OPTIONAL INSULATION	<i>Preliminarily Secured</i> or secured with top layer	Min. 0.5-inch II/III-J or Cover Board	OMG #15 Roofgrip and OMG RhinoBond Insulation Plate (TPO), Trufast TPO IW Plates, or <i>isoweld</i> FI-P-6.8-TPO plates secured 12 per 4-ft x 8-ft board Pattern #1 (1 fastener per 2.67-ft ²)	IB TPO SM (Min. 60 mil)	Induction welded to weld plates	-75 (Lim. 7)
R-W-10	Existing metal roof over Min. 16 ga. steel purlins	Min. 1.5-inch II/III-J or EPS placed between ribs	<i>Preliminarily Secured</i> or secured with top layer	Min. 1-inch II/III-J or Cover Board	OMG Purlin and OMG RhinoBond Insulation Plate (TPO) secured 6-inch o.c. into the purlins with fastener rows max. 72-inch o.c.	IB TPO SM (Min. 60 mil)	Induction welded to weld plates	-82.5 (Lim. 7)
R-W-11	Existing metal roof over Min. 16 ga. steel purlins	Min. 2-inch II/III-J or EPS placed between ribs	<i>Preliminarily Secured</i> or secured with top layer	OPTIONAL INSULATION	OMG Purlin and OMG RhinoBond Insulation Plate (TPO) secured 6-inch o.c. into the purlins with fastener rows max. 120-inch o.c.	IB TPO SM (Min. 60 mil)	Induction welded to weld plates	-82.5 (Lim. 7)
R-W-12	Steel Deck (G33) or Concrete Deck	OPTIONAL INSULATION	<i>Preliminarily Secured</i> or secured with top layer	Min. 0.5-inch II/III-J or Cover Board	OMG #15 Roofgrip and OMG RhinoBond Insulation Plate (TPO), Trufast TPO IW Plates, or <i>isoweld</i> FI-P-6.8-TPO plates secured 15 per 4-ft x 8-ft board (1 fastener per 2.13-ft ²)	IB TPO SM (Min. 60 mil)	Induction welded to weld plates	-90 (Lim. 7)

APPENDIX C – APPROVED ASSEMBLIES FOR TPO SINGLE-PLY MEMBRANES

Induction Welded Recover Assemblies								
System No.	Existing Roof	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment (Note 12)	MDP (psf)
R-W-13	Existing metal roof over Min. 16 ga. steel purlins	Min. 1-inch <i>II/III-J</i> or <i>EPS</i> placed between ribs	<i>Preliminarily Secured or secured with top layer</i>	OPTIONAL <i>INSULATION</i>	Trufast TPO IW Plates and Trufast #12 Purlin Fasteners spaced 6-inch o.c. into the purlins with fastener rows max. 60-inch o.c.	IB TPO SM (Min. 60 mil)	Induction welded to Weld plates	-90 (Lim. 7)
R-W-14	Existing metal roof over Min. 16 ga. steel purlins	Min. 1.5-inch <i>II/III-J</i> or <i>EPS</i> placed between ribs	<i>Preliminarily Secured or secured with top layer</i>	Min. 1-inch <i>II/III-J</i> or <i>Cover Board</i>	ISOWELD-#12 or ISOWELD-#15 secured 6-inch o.c. into the purlins with fastener rows max. 60-inch o.c.	IB TPO SM (Min. 60 mil)	Induction welded to Weld plates	-97.5 (Lim. 7)
R-W-15	Wood Deck (T15/32P, L24)	OPTIONAL <i>INSULATION</i>	<i>Preliminarily Secured or secured with top layer</i>	Min. 0.5-inch <i>II/III-J</i> or <i>Cover Board</i>	Min. 2.25-inch OMG Heavy Duty and OMG RhinoBond Insulation Plate (TPO), Trufast TPO IW Plates, or <i>isoweld</i> FI-P-6.8-TPO plates secured max. 6-inch o.c. through sheathing into wood structural supports in rows max. 48-inch o.c.	IB TPO SM (Min. 60 mil)	Induction welded to weld plates	-112.5 (Lim. 7)
R-W-16	Existing metal roof over Min. 16 ga. steel purlins	Min. 1.5-inch <i>II/III-J</i> or <i>EPS</i> placed between ribs	<i>Preliminarily Secured or secured with top layer</i>	Min. 1-inch <i>II/III-J</i> or <i>Cover Board</i>	OMG Purlin and OMG RhinoBond Insulation Plate (TPO) secured 6-inch o.c. into the purlins with fastener rows max. 60-inch o.c.	IB TPO SM (Min. 60 mil)	Induction welded to weld plates	-120 (Lim. 7)

Adhered Assemblies over Steel Deck (New or Existing)								
System No.	Deck	Vapor Barrier	Base Insulation (Note 6)	Middle Insulation	Top Insulation/ Cover Board	Membrane and Attachment (Note 10)		MDP (psf)
						IB TPO	IB TPO FB	
S-A-1	G33	OPTIONAL <i>VB-Steel</i>	Min. 1.5-inch <i>II/III-J</i> applied in <i>OB500</i> or <i>RSPG</i> spaced 12-inch o.c.	OPTIONAL Min. 1-inch <i>II/III-J</i> applied in <i>OB500</i> or <i>RSPG</i> spaced 12-inch o.c.	Min. 1-inch <i>II-J</i> applied in <i>OB500</i> or <i>RSPG</i> spaced 12-inch o.c.	TBA, LVOC or TSCA	<i>RSPG(B)</i> or <i>OB500(S)</i>	-45 (Lim. 9)
S-A-2	G33	OPTIONAL <i>VB-Steel</i>	Min. 1.5-inch <i>II/III-J</i> applied in <i>RSPG</i> spaced 12-inch o.c.	OPTIONAL Min. 1-inch <i>II/III-J</i> applied in <i>OB500</i> or <i>RSPG</i> spaced 12-inch o.c.; or <i>RSPG(S)</i>	Min. 1-inch <i>II-J</i> applied in <i>OB500</i> or <i>RSPG</i> spaced 12-inch o.c.; or <i>RSPG(S)</i>	TBA, LVOC or TSCA	<i>RSPG(B)</i> or <i>OB500(S)</i>	-45 (Lim. 9)
S-A-3	G33	OPTIONAL <i>VB-Steel</i>	OPTIONAL Min. 1.5-inch <i>II/III-J</i> applied in <i>OB500</i> or <i>RSPG</i> spaced 12-inch o.c.	-	Min. 1.5-inch <i>II-J</i> applied in <i>OB500</i> or <i>RSPG</i> spaced 12-inch o.c.	TBA, LVOC or TSCA	<i>RSPG(B)</i> or <i>OB500(S)</i>	-45 (Lim. 9)
S-A-4	G33	OPTIONAL <i>VB-Steel</i>	OPTIONAL Min. 1.5-inch <i>II/III-J</i> applied in <i>RSPG</i> spaced 12-inch o.c.	-	Min. 1.5-inch <i>II-J</i> applied in <i>OB500</i> or <i>RSPG</i> spaced 12-inch o.c.	TBA, LVOC or TSCA	<i>RSPG(B)</i> or <i>OB500(S)</i>	-45 (Lim. 9)

APPENDIX C – APPROVED ASSEMBLIES FOR TPO SINGLE-PLY MEMBRANES

Adhered Assemblies over Steel Deck (New or Existing)								
System No.	Deck	Vapor Barrier	Base Insulation (Note 6)	Middle Insulation	Top Insulation/ Cover Board	Membrane and Attachment (Note 10)		MDP (psf)
						IB TPO	IB TPO FB	
S-A-5	G33	OPTIONAL VB-Steel	Min. 1.5-inch <i>II/III-J</i> applied in <i>OB500</i> or <i>RSPG</i> spaced 12-inch o.c.	OPTIONAL Min. 1-inch <i>II/III-J</i> applied in <i>OB500</i> or <i>RSPG</i> spaced 12-inch o.c.; or <i>RSPG(S)</i>	<i>HD ISO-J</i> , <i>SGF</i> , or <i>DDP</i> applied in <i>OB500</i> , <i>RSIA</i> , or <i>RSPG</i> spaced 12-inch o.c.; or <i>RSPG(S)</i>	<i>TBA</i> , <i>LVOC</i> or <i>TSCA</i>	<i>OB500(S)</i>	-45 (Lim. 9)
S-A-6	G33	OPTIONAL VB-Steel	Min. 1.5-inch <i>II/III-J</i> applied in <i>RSPG</i> spaced 12-inch o.c.	OPTIONAL Min. 1-inch <i>II/III-J</i> applied in <i>OB500</i> or <i>RSPG</i> spaced 12-inch o.c.; or <i>RSPG(S)</i>	<i>HD ISO-J</i> , <i>SGF</i> , or <i>DDP</i> applied in <i>OB500</i> , <i>RSIA</i> , or <i>RSPG</i> spaced 12-inch o.c.; or <i>RSPG(S)</i>	<i>TBA</i> , <i>LVOC</i> or <i>TSCA</i>	<i>OB500(S)</i>	-45 (Lim. 9)
S-A-7	G33	OPTIONAL VB-Steel	-	-	Min. 1.5-inch <i>II-J</i> , <i>III-J</i> , applied in <i>RSPG</i> spaced 12-inch o.c.	<i>TBA</i> , <i>LVOC</i> , <i>TWBA</i> or <i>TSCA</i>	<i>OB500(S)</i>	-45 (Lim. 9)
S-A-8	G33	IBarrier FG SAR; Deck primed with SA Primer Low VOC	-	-	Min. 1.5-inch <i>II/III-J</i> applied in <i>RSPG</i> spaced 6-inch o.c.	<i>TSCA</i> , <i>TWBA</i> , <i>TBA</i> or <i>LVOC</i>		-52.5 (Lim. 9)
S-A-9	G33	-	-	-	Min. 1.5-inch <i>II/III-J</i> applied in <i>RSPG</i> spaced 6-inch o.c.	<i>TSCA</i> , <i>TWBA</i> , <i>TBA</i> or <i>LVOC</i>		-82.5 (Lim. 9)

Assemblies with Adhered Membranes over Insulated Steel Deck (New, Existing, or Recover)									
System No.	Deck Detail	Thermal/ Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation or Coverboard	Top Insulation or Coverboard Attachment	Membrane and Attachment (Note 10)		MDP (psf)
							IB TPO	IB TPO FB	
S-AM-1	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch II/III-J	Preliminarily Secured or secured with top layer	HD ISO-J	Fasteners & Plates secured 1 fastener per 2.67ft ²	TWBA, TBA, LVOC, or TSCA	RSPG(B), RSPG(S), OB500(S), TSCA or TWBA	-30 (Lim. 7)
S-AM-2	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch II/III-J	Simultaneously secured with top layer	DDP	Fasteners & Plates secured 1 fastener per 3.2ft ²	TWBA, TBA, LVOC, TSCA or TCLA	RSPG(B), TWBA, TSCA, OB500(S)	-30 (Lim. 7)
S-AM-3	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch II/III-J	Simultaneously secured with top layer	Min. 0.5-inch DDP	Fasteners & Plates secured 1 fastener per 5.33ft ²	TWBA, TBA, LVOC, TSCA or TCLA	RSPG(B), TWBA, TSCA, OB500(S)	-30 (Lim. 7)
S-AM-4	G33	Min. 0.5-inch DDP secured with #14 Fasteners & Plates secured 1 fastener per 4ft ²	1.5-inch II/III-J	OB500 applied 12-inch o.c.	DDP	OB500 applied 12-inch o.c.	TWBA, TBA, LVOC, TSCA or TCLA	RSPG(B), TWBA, TSCA, OB500(S)	-30 (Lim. 7)

APPENDIX C – APPROVED ASSEMBLIES FOR TPO SINGLE-PLY MEMBRANES

Assemblies with Adhered Membranes over Insulated Steel Deck (New, Existing, or Recover)									
System No.	Deck Detail	Thermal/Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation or Coverboard	Top Insulation or Coverboard Attachment	Membrane and Attachment (Note 10)		MDP (psf)
							IB TPO	IB TPO FB	
S-AM-5	G33	HD ISO-J with Fasteners & Plates secured at 8 per 4-ft x 8-ft board Pattern #2; IBarrier FG SAR with IBarrier Primer or IBarrier Primer LV	II/III-J or II/III-A	RSIA, RSPG, or OB500 applied 12-inch o.c.; or RSPG(S)	HD ISO-J, REB III-J, DensDeck, DDP, DXF, or SGF	RSIA, RSPG, or OB500 applied 12-inch o.c.; or RSPG(S)	TWBA, TBA, LVOC, or TSCA	RSPG(B), RSPG(S), OB500(S), TSCA, TWBA	-37.5 (Lim. 7)
S-AM-6	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch II/III-J	Simultaneously secured with top layer	Min. 0.5-inch DDP	OMG #12 Standard Roofgrip or OMG #12 Standard Roofgrip and OMG 3 in. Ribbed Galvalume Plate (Flat) or OMG Flat Bottom Metal Plate secured 8 per 4-ft x 8-ft board Pattern 3	TWBA, TBA, LVOC, TSCA or TCLA	RSPG(B), TWBA, TSCA, OB500(S)	-37.5 (Lim. 7)
S-AM-7	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 2-inch II-J	Fasteners & Plates secured 1 fastener per 2.67ft ²	HD ISO-J	RSPG or OB500 applied 12-inch o.c.; or RSPG(S)	TWBA, TBA, LVOC, or TSCA	RSPG(B), RSPG(S), OB500(S), TWBA, or TSCA	-45 (Lim. 7)
S-AM-8	G33	OPTIONAL Vapor Barrier	Min. 1.5-inch II/III-J	Simultaneously secured with top layer	HD ISO-J	Fasteners & Plates secured 1 fastener per 4ft ²	TWBA, TBA, LVOC, or TSCA	RSPG(B), RSPG(S), OB500(S), TWBA, or TSCA	-45 (Lim. 7)
S-AM-9	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch II/III-J	Simultaneously secured with top layer	Min. 0.375-inch SGF	Fasteners & Plates secured 1 fastener per 2.67ft ²	TSCA, TWBA, TBA, or TSCA	RSPG(B), TWBA or TSCA	-45 (Lim. 7)
S-AM-10	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch II/III-J	Simultaneously secured with top layer	Min. 0.5-inch SGF	Fasteners & Plates or Fasteners & Trufast Plates secured 1 fastener per 4ft ²	TWBA, TBA, LVOC, or TSCA	RSPG(B), TWBA, TSCA or OB500(S)	-45 (Lim. 9)
S-AM-11	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 1.5-inch II-J	Fasteners & Plates secured 1 fastener per 2ft ²	TBA, TWBA, TSCA or LVOC	-	-45 (Lim. 7)
S-AM-12	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 2-inch II-J	Fasteners & Plates secured 1 fastener per 4ft ²	SGF	RSIA, RSPG or OB500 applied 12-inch o.c.; or RSPG(S)	TWBA, TBA, LVOC, or TSCA	TWBA, TSCA, RSPG(B), RSPG(S) or OB500(S)	-45 (Lim. 7)
S-AM-13	22 GA Type N; G80	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch II/III-J	OMG Heavy Duty and Dekfast PLT-H-2-7/8 Plates secured 16 per 4-ft x 8-ft board Type N	TBA, LVOC, or TSCA	OB500(S)	-45 (Lim. 7)

APPENDIX C – APPROVED ASSEMBLIES FOR TPO SINGLE-PLY MEMBRANES

Assemblies with Adhered Membranes over Insulated Steel Deck (New, Existing, or Recover)									
System No.	Deck Detail	Thermal/Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation or Coverboard	Top Insulation or Coverboard Attachment	Membrane and Attachment (Note 10)		MDP (psf)
							IB TPO	IB TPO FB	
S-AM-14	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch II/III-J	Simultaneously secured with top layer	StormX	OMG Fasteners & Plates secured 4 per 4-ft x 8-ft board	TWBA, TBA, LVOC, TSCA or TCLA	RSPG(B), TWBA, TSCA, or OB500(S)	-45 (Lim. 7)
S-AM-15	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch II/III-J	Fasteners & Plates secured 1 fastener per 2.67ft ²	DDP or StormX	RSPG applied 12-inch o.c.; or RSPG(S)	TWBA, TBA, LVOC, TSCA or TCLA	TWBA, TSCA, RSPG(B), RSPG(S), or OB500(S)	-45 (Lim. 7)
S-AM-16	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch II/III-J	Simultaneously secured with top layer	Min. 0.5-inch DXF	Fasteners & Plates secured 1 fastener per 4ft ²	TWBA, TBA, LVOC, or TSCA	RSPG(B), TWBA or OB500(S)	-45 (Lim. 7)
S-AM-17	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch II/III-J	Simultaneously secured with top layer	DXF	Fasteners & Plates secured 1 fastener per 3.2ft ²	TWBA, TBA, LVOC, or TSCA	RSPG(B), TWBA or OB500(S)	-45 (Lim. 7)
S-AM-18	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch II/III-J	Simultaneously secured with top layer	DXC	OMG-IP secured 1 fastener per 3.2ft ²	TWBA	TWBA	-45 (Lim. 7)
S-AM-19	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 2-inch II-J	Fasteners & Plates secured 1 fastener per 4ft ²	DXF	RSIA, RSPG or OB500 applied 12-inch o.c.; or RSPG(S)	TWBA, TBA, LVOC, or TSCA	RSPG(B), TWBA or OB500(S)	-45 (Lim. 7)
S-AM-20	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 2-inch II-J	Fasteners & Plates secured 1 fastener per 4ft ²	DXC	OB500 applied 12-inch o.c.	TWBA	TWBA	-45 (Lim. 7)
S-AM-21	G33	Min. 0.5-inch DXF secured with Fasteners & Plates secured 1 fastener per 4ft ² ; Primed with IBarrier Primer LV followed by IBarrier FG SAR	Min. 1.5-inch II/III-J	RSIA, RSPG or OB500 applied 12-inch o.c.; or RSPG(S)	DXF	RSIA, RSPG or OB500 applied 12-inch o.c.; or RSPG(S)	TWBA, TBA, LVOC, or TSCA	RSPG(B), TWBA or OB500(S)	-45 (Lim. 7)

APPENDIX C – APPROVED ASSEMBLIES FOR TPO SINGLE-PLY MEMBRANES

Assemblies with Adhered Membranes over Insulated Steel Deck (New, Existing, or Recover)									
System No.	Deck Detail	Thermal/Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation or Coverboard	Top Insulation or Coverboard Attachment	Membrane and Attachment (Note 10)		MDP (psf)
							IB TPO	IB TPO FB	
S-AM-22	G33	Min. 0.5-inch DXF secured with Fasteners & Plates secured 1 fastener per 4ft ² ; Primed with IBarrier Primer LV followed by IBarrier FG SAR	Min. 1.5-inch II/III-J	RSIA, RSPG or OB500 applied 12-inch o.c.; or RSPG(S)	DXC	OB500 applied 12-inch o.c.	TWBA	TWBA	-45 (Lim. 7)
S-AM-23	G33	Min. 0.5-inch DensDeck Prime secured with IB or TF secured 1 fastener per 4ft ² over OPTIONAL Vapor Barrier	Min. 1.5-inch II-J	OB500, RSIA, or RSPG applied 12-inch o.c.; or RSPG(S)	OPTIONAL HD ISO-J, SGF, or DDP	OB500, RSIA, or RSPG applied 12-inch o.c.; or RSPG(S)	TBA, LVOC, or TSCA	OB500(S)	-45 (Lim. 7)
S-AM-24	G33	Min. 0.5-inch DensDeck Prime secured with IB or TF secured 1 fastener per 4ft ² over OPTIONAL Vapor Barrier	Min. 1.5-inch II-J	OB500, RSIA, or RSPG applied 12-inch o.c.; or RSPG(S)	OPTIONAL HD ISO-J, DXF, SGF, or DDP	OB500, RSIA, or RSPG applied 12-inch o.c.; or RSPG(S)	-	RSPG(B)	-45 (Lim. 7)
S-AM-25	G33	Optional Vapor Barrier	Min. 1.5-inch II/III-J	Fasteners & Plates secured 1 fastener per 2.67ft ²	Min. 1-inch II/III-J	OB500 or RSPG applied 12-inch o.c.; or RSPG(S)	TBA, LVOC, or TSCA	OB500(S)	-45 (Lim. 7)
S-AM-26	G33	Optional Vapor Barrier	Min. 2-inch II/III-J	Fasteners & Plates secured 1 fastener per 4ft ²	Min. 1-inch II/III-J	OB500 or RSPG applied 12-inch o.c.; or RSPG(S)	TBA, LVOC, or TSCA	RSPG(B) or OB500(S)	-45 (Lim. 7)
S-AM-27	G33	-	Min. 0.5-inch DXF, SGF, DXC, or HD ISO-J; Primed with IBarrier Primer LV or IBarrier Primer followed by IBarrier FG SAR	Fasteners & Plates secured 1 fastener per 4ft ²	Min. 1.5-inch II/III-J	OB500 applied 12-inch o.c.	TBA, LVOC, or TSCA	RSPG(B) or OB500(S)	-45 (Lim. 7)
S-AM-28	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch II/III-J	Simultaneously secured with top layer	Min. 0.625-inch DXF	Fasteners & Plates secured 1 fastener per 5.33ft ²	TWBA, TBA, LVOC, or TSCA	RSPG(B), TWBA or OB500(S)	-45 (Lim. 7)

APPENDIX C – APPROVED ASSEMBLIES FOR TPO SINGLE-PLY MEMBRANES

Assemblies with Adhered Membranes over Insulated Steel Deck (New, Existing, or Recover)									
System No.	Deck Detail	Thermal/Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation or Coverboard	Top Insulation or Coverboard Attachment	Membrane and Attachment (Note 10)		MDP (psf)
							IB TPO	IB TPO FB	
S-AM-29	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch III/III-J	Simultaneously secured with top layer	DXC	Fasteners & Plates secured 1 fastener per 5.33ft ²	TWBA	TWBA	-45 (Lim. 7)
S-AM-30	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch III/III-J	#14 Fasteners & Plates (Square) secured 1 fastener per 4ft ²	-	RSPG(B)	-45 (Lim. 7)
S-AM-31	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch III/III-J	Simultaneously secured with top layer	Min. 0.5-inch DDP	Fasteners & Plates secured 1 fastener per 4ft ²	TWBA, TBA, LVOC, TSCA or TCLA	RSPG(B), TWBA, TSCA, or OB500(S)	-45 (Lim. 7)
S-AM-32	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch III/III-J	Simultaneously secured with top layer	ProFast	OMG #15 Roofgrip and OMG Plates (Square) secured 6 per 4-ft x 8-ft board Pattern #2	TWBA, TBA, LVOC, TSCA or TCLA	RSPG(B), TWBA, TSCA, or OB500(S)	-45 (Lim. 7)
S-AM-33	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch III/III-J	Simultaneously secured with top layer	SGF	IB or Fasteners & Plates secured 1 fastener per 1.33ft ²	TBA, LVOC, TWBA, or TSCA	TWBA, TSCA, or OB500(S)	-52.5 (Lim. 7)
S-AM-34	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch II-J	Fasteners & Plates secured 1 fastener per 1.33ft ²	SGF	RSPG or OB500 applied 12-inch o.c.; or RSPG(S)	TBA, LVOC, TWBA, or TSCA	TWBA, TSCA, RSPG(B), RSPG(S), or OB500(S)	-52.5 (Lim. 7)
S-AM-35	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 1.5-inch III-J	Fasteners & Plates secured 1 fastener per 1.78ft ²	TBA, TWBA, or TSCA	-	-52.5 (Lim. 7)
S-AM-36	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch III-J	Fasteners & Plates secured 1 fastener per 2.67ft ²	TBA, TWBA, or TSCA	-	-52.5 (Lim. 7)
S-AM-37	G33	OPTIONAL Vapor Barrier	Min. 2-inch III-J	Fasteners & Plates secured 1 fastener per 2.67ft ²	Min. 1.5-inch III-J	RSIA, RSPG, or OB500 applied 6-inch o.c.	TSCA, TWBA, TBA or LVOC	-	-52.5 (Lim. 7)
S-AM-38	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 1.5-inch III/III-J	Fasteners & Plates secured 1 fastener per 1.78ft ²	TBA or LVOC	RSPG(B) or OB500(S)	-52.5 (Lim. 7)
S-AM-39	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	HD ISO-J	Fasteners & Plates secured 1 fastener per 1.78ft ²	TWBA, TBA, LVOC, or TSCA	TWBA or TSCA	-52.5 (Lim. 7)
S-AM-40	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch III/III-J	Simultaneously secured with top layer	DDP	Fasteners & Plates or Fasteners & Trufast Plates secured 1 fastener per 1.78ft ²	TWBA, TBA, LVOC, TSCA or TCLA	RSPG(B), TWBA, TSCA, or OB500(S)	-52.5 (Lim. 7)
S-AM-41	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch III/III-J	Simultaneously secured with top layer	StormX	OMG Fasteners & Plates secured 8 per 4-ft x 8-ft board Pattern #3	TWBA, TBA, LVOC, TSCA or TCLA	RSPG(B), TWBA, TSCA, or OB500(S)	-52.5 (Lim. 7)

APPENDIX C – APPROVED ASSEMBLIES FOR TPO SINGLE-PLY MEMBRANES

Assemblies with Adhered Membranes over Insulated Steel Deck (New, Existing, or Recover)									
System No.	Deck Detail	Thermal/Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation or Coverboard	Top Insulation or Coverboard Attachment	Membrane and Attachment (Note 10)		MDP (psf)
							IB TPO	IB TPO FB	
S-AM-42	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch II-J	Fasteners & Plates secured 1 fastener per 1.78ft ²	Min 1/2-inch SGF	RSIA, RSPG or OB500 applied 12-inch o.c.; or RSPG(S)	TBA, LVOC, or TSCA	RSPG(B), TWBA, TSCA or OB500(S)	-60 (Lim. 7)
S-AM-43	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch III/III-J	Simultaneously secured with top layer	SGF	IB or Fasteners & Plates secured 1 fastener per 1ft ²	TWBA, TBA, LVOC, or TSCA	TWBA, TSCA, or OB500(S)	-60 (Lim. 7)
S-AM-44	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 1.5-inch E3/III-J	Fasteners & Plates secured 1 fastener per 1.78ft ²	MBATBA or LVOC	-	-60 (Lim. 7)
S-AM-45	G33	OPTIONAL Vapor Barrier	Min. 1.5-inch III-J	Fasteners & Plates secured 1 fastener per 1.78ft ²	Min. 1.5-inch III-J	RSIA, RSPG, or OB500 applied 6-inch o.c.	TSCA, TWBA, TBA or LVOC	-	-60 (Lim. 7)
S-AM-46	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	HD ISO-J	Fasteners & Plates secured 1 fastener per 1.78ft ²	TBA, LVOC, or TSCA	OB500(S)	-60 (Lim. 7)
S-AM-47	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch II-J	Fasteners & Plates secured 1 fastener per 1.6ft ²	-	RSPG(B) or OB500(S)	-60 (Lim. 7)
S-AM-48	G33	OPTIONAL Vapor Barrier	Min. 2-inch II/III-J or II/III-A	OMG-IP secured 1 fastener per 1.6ft ²	Min. 1.5-inch II/III-J or II/III-A	RSIA, RSPG, or OB500 applied 6-inch o.c.	-	OB500(S)	-60 (Lim. 7)
S-AM-49	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch II/III-J	Simultaneously secured with top layer	Min 0.5-inch DDP	OMG #12 Standard Roofgrip fasteners and OMG 3 in. Ribbed Galvalume Plate (Flat) or OMG Flat Bottom Metal Plate secured 16 per 4-ft x 8-ft board	TWBA, TBA, LVOC, TSCA or TCLA	RSPG(B), TWBA, TSCA or OB500(S)	-60 (Lim. 7)
S-AM-50	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch III/III-J	Simultaneously secured with top layer	ProFast	OMG #15 Roofgrip and OMG Plates (Square) secured of 8 per 4-ft x 8-ft board Pattern #3	TWBA, TBA, LVOC, TSCA or TCLA	RSPG(B), TWBA, TSCA or OB500(S)	-60 (Lim. 7)
S-AM-51	G33	IBarrier FG SAR adhered to min. 0.5-inch DXF secured with OMG-IP at 1 fastener per 2ft ² and primed with IBarrier Primer LV	Min. 1.5-inch II-J	OB500 or RSPG applied 6-inch o.c.	Min. 0.5-inch DXF	RSPG applied 6-inch o.c.	TWBA, TBA, LVOC, or TSCA	TWBA, or RSPG(B) applied 4-inch o.c.	-60 (Lim. 7)

APPENDIX C – APPROVED ASSEMBLIES FOR TPO SINGLE-PLY MEMBRANES

Assemblies with Adhered Membranes over Insulated Steel Deck (New, Existing, or Recover)									
System No.	Deck Detail	Thermal/Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation or Coverboard	Top Insulation or Coverboard Attachment	Membrane and Attachment (Note 10)		MDP (psf)
							IB TPO	IB TPO FB	
S-AM-52	G33	IBarrier FG SAR adhered to min. 0.5-inch DXF secured with OMG-IP at 1 fastener per 2ft ² and primed with IBarrier Primer LV	Min. 1.5-inch II-J	OB500 or RSPG applied 6-inch o.c.	Min. 0.5-inch DDP or SGF	OB500 or RSPG applied 6-inch o.c.	TWBA, TBA, LVOC, TSCA, or TCLA	-	-60 (Lim. 7)
S-AM-53	G33	IBarrier FG SAR adhered to min. 0.5-inch DXF secured with OMG-IP 1 fastener per 2ft ² and primed with IBarrier Primer LV	Two (2) layers of Min. 1.5-inch II-J or one (1) layer of Min. 3-inch II-J	OB500 or RSPG applied 6-inch o.c.	HD ISO-J or REB III-J	OB500 or RSPG applied 6-inch o.c.	TSCA, TWBA, TBA or LVOC	TWBA	-60 (Lim. 7)
S-AM-54	G33	IBarrier FG SAR adhered to min. 0.5-inch DXF secured with OMG-IP 1 fastener per 2ft ² and primed with IBarrier Primer LV	Two (2) layers of Min. 1.5-inch II-J or one (1) layer of Min. 3-inch II-J	OB500 or RSPG applied 6-inch o.c.	DDP or SGF	OB500 or RSPG applied 6-inch o.c.	TWBA, TBA, LVOC, TSCA, or TCLA	TWBA	-60 (Lim. 7)
S-AM-55	G40	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch II/III-J	Simultaneously secured with top layer	Min. 0.5-inch SGF	Fasteners & Plates secured 1 fastener per 2ft ²	TBA, LVOC, TWBA, or TSCA	TWBA	-60 (Lim. 7)
S-AM-56	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch II/III-J	OMG-IP (Square) secured 1 fastener per 1.33ft ²	Min. 0.5-inch SGF	RSPG or OB500 applied 12-inch o.c.; or RSPG(S)	TBA, LVOC, TWBA, or TSCA	TWBA, RSPG(B) or RSPG(S)	-67.5 (Lim. 7)
S-AM-57	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch III-J	Fasteners & Plates secured 1 fastener per 2ft ²	TBA, TWBA, or TSCA	-	-67.5 (Lim. 7)
S-AM-58	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch II-J	Fasteners & Plates secured 1 fastener per 2ft ²	TBA, LVOC, TWBA, or TSCA	-	-67.5 (Lim. 7)
S-AM-59	G33	OPTIONAL Vapor Barrier	Min. 2-inch III-J	Fasteners & Plates secured 1 fastener per 2ft ²	Min. 1.5-inch III-J	RSIA, RSPG, or AOB500 applied 6-inch o.c.	TBA, LVOC, TWBA, or ATSCA	-	-67.5 (Lim. 7)
S-AM-60	G33	OPTIONAL Vapor Barrier	Min. 2-inch II/III-J or II/III-A	OMG-IP secured 1 fastener per 1.6ft ²	Min. 0.5-inch HD ISO-J, DXF, or SGF	RSIA, RSPG, or OB500 applied 6-inch o.c.	-	RSPG(B) 6-inch o.c.	-67.5 (Lim. 7)

APPENDIX C – APPROVED ASSEMBLIES FOR TPO SINGLE-PLY MEMBRANES

Assemblies with Adhered Membranes over Insulated Steel Deck (New, Existing, or Recover)									
System No.	Deck Detail	Thermal/Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation or Coverboard	Top Insulation or Coverboard Attachment	Membrane and Attachment (Note 10)		MDP (psf)
							IB TPO	IB TPO FB	
S-AM-61	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch II/III-J	Simultaneously secured with top layer	Min 0.5-inch DDP	Fasteners & Plates or Fasteners & Trufast Plates secured 1 fastener per 1.78ft ²	TWBA, TBA, LVOC, TSCA or TCLA	TWBA, TSCA, or OB500(S)	-67.5 (Lim. 7)
S-AM-62	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch II/III-J	Simultaneously secured with top layer	StormX	OMG Fasteners & Plates secured 12 per 4-ft x 8-ft board	TWBA, TBA, LVOC, TSCA or TCLA	TWBA, TSCA, or OB500(S)	-67.5 (Lim. 7)
S-AM-63	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch II/III-J	Preliminarily Secured or secured with top layer	HD ISO-J	Fasteners & Plates secured 1 fastener per 1.33ft ²	TWBA, TBA, LVOC, or TSCA	TWBA, TSCA or OB500(S)	-75 (Lim. 7)
S-AM-64	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch II/III-J, II/III-A	Fasteners & Plates secured 1 fastener per 1.6ft ²	TWBA, TBA, LVOC, or TSCA	-	-75 (Lim. 7)
S-AM-65	G33	OPTIONAL Vapor Barrier	Min. 1.5-inch II/III-J	Simultaneously secured with top layer	Min. 0.5-inch SGF	Fasteners & Plates or Fasteners & Trufast Plates secured 1 fastener per 1ft ²	TWBA, TBA, LVOC, or TSCA	-	-75 (Lim. 7)
S-AM-66	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch II/III-J	Simultaneously secured with top layer	StormX	OMG Fasteners & Plates secured 14 per 4-ft x 8-ft board	TWBA, TBA, LVOC, TSCA or TCLA	TWBA or TSCA	-75 (Lim. 7)
S-AM-67	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch II/III-J	Simultaneously secured with top layer	Min. 0.5-inch SGF	Fasteners & Plates secured 1 fastener per 1.6ft ²	TBA, LVOC, TWBA, or TSCA	OB500(S)	-75 (Lim. 7)
S-AM-68	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch II/III-J	Simultaneously secured with top layer	DXVSH	Fasteners & Plates secured 1 fastener per 1.6ft ²	TBA, LVOC, TWBA, or TSCA	RSPG(B) applied 4-inch o.c., or RSPG(S)	-75 (Lim. 7)
S-AM-69	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch II/III-J	Simultaneously secured with top layer	DXC	OMG-IP secured 1 fastener per 1.6ft ²	TBA or LVOC	-	-75 (Lim. 7)
S-AM-70	G33	OPTIONAL Vapor Barrier	Min. 1.5-inch II/III-J	Simultaneously secured with top layer	Min. 0.5-inch DDP	Fasteners & Plates or Fasteners & Trufast Plates secured 1 fastener per 1.6ft ²	TWBA, TBA, LVOC, TSCA or TCLA	TWBA or TSCA	-75 (Lim. 7)
S-AM-71	G33	OPTIONAL Vapor Barrier	Min. 1.5-inch II/III-J	Simultaneously secured with top layer	ProFast	OMG #15 Roofgrip and OMG Plates (Square) secured 1 fastener per 2.7ft ²	TWBA, TBA, LVOC, TSCA or TCLA	TWBA or TSCA	-75 (Lim. 7)

APPENDIX C – APPROVED ASSEMBLIES FOR TPO SINGLE-PLY MEMBRANES

Assemblies with Adhered Membranes over Insulated Steel Deck (New, Existing, or Recover)									
System No.	Deck Detail	Thermal/Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation or Coverboard	Top Insulation or Coverboard Attachment	Membrane and Attachment (Note 10)		MDP (psf)
							IB TPO	IB TPO FB	
S-AM-72	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch II/III-J	Simultaneously secured with top layer	Min. 0.5-inch SGF	Fasteners & Plates or Fasteners & Trufast Plates secured 1 fastener per 1ft ²	TWBA, TSCA, or TBA	OB500(S)	-82.5 (Lim. 7)
S-AM-73	G33	OPTIONAL Vapor Barrier - adhered	Min. 1.5-inch II/III-J	Simultaneously secured with top layer	Min. 0.5-inch DXF	Fasteners & Plates secured 1 fastener per 1ft ²	TBA, LVOC, TWBA, or TSCA	RSPG(B) applied 4-inch o.c., or RSPG(S)	-82.5 (Lim. 7)
S-AM-74	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch II/III-J or II/III-A	Fasteners & Plates secured 1 fastener per 1ft ²	TBA, LVOC, or TWBA	-	-82.5 (Lim. 7)
S-AM-75	G33	OPTIONAL Vapor Barrier	Min. 1.5-inch II/III-J	Simultaneously secured with top layer	Min. 0.5-inch DDP	Fasteners & Plates or Fasteners & Trufast Plates secured 1 fastener per 1ft ²	TBA, LVOC, TWBA, or TSCA	-	-82.5 (Lim. 7)
S-AM-76	G33	OPTIONAL Vapor Barrier	Min. 1.5-inch II/III-J	Simultaneously secured with top layer	DXC	OMG-IP secured 1 fastener per 1ft ²	TBA or LVOC	-	-82.5 (Lim. 7)
S-AM-77	G33	OPTIONAL Vapor Barrier	Min. 1-inch II/III-J	Simultaneously secured with top layer	HD ISO-J	Fasteners & Plates secured 1 fastener per 1.33ft ²	TBA, LVOC, or TSCA	OB500(S)	-82.5 (Lim. 7)
S-AM-78	G33	OPTIONAL Vapor Barrier	Min. 2-inch II/III-J or II/III-A	Fasteners & Plates secured 1 fastener per 1.6ft ²	HD ISO-J	RSIA, RSPG, or OB500 applied 6-inch o.c.	TWBA, TBA, LVOC, or TSCA	OB500(S)	-82.5 (Lim. 7)
S-AM-79	G33	OPTIONAL Vapor Barrier	Min. 2-inch II/III-J or II/III-A	Fasteners & Plates secured 1 fastener per 1.6ft ²	Min. 0.5-inch DDP, DXF, or SGF	RSIA, RSPG, or OB500 applied 6-inch o.c.	TSCA, TWBA, TBA or LVOC	-	-82.5 (Lim. 7)
S-AM-80	G33	OPTIONAL Vapor Barrier	Min. 2-inch II/III-J or II/III-A	Fasteners & Plates secured 1 fastener per 1.6ft ²	Min. 1.5-inch II/III-J or II/III-A	RSIA, RSPG, or OB500 applied 6-inch o.c.	TSCA, TWBA, TBA or LVOC	-	-82.5 (Lim. 7)
S-AM-81	G33	OPTIONAL Vapor Barrier	Min. 2-inch II/III-J or II/III-A	Fasteners & Plates secured at 1 fastener per 1ft ²	Min. 1.5-inch II-J	RSIA, RSPG, or OB500 applied 4-inch o.c.	TSCA, TWBA, TBA or LVOC	-	-82.5 (Lim. 7)
S-AM-82	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch II-J	Fasteners & Plates secured 1 fastener per 1ft ²	TWBA, TBA, or LVOC	-	-82.5 (Lim. 7)
S-AM-83	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch II/III-J or II/III-A	Fasteners & Plates secured 1 fastener per 1ft ²	TSCA or TBA	-	-82.5 (Lim. 7)
S-AM-84	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch II/III-J	Simultaneously secured with top layer	StormX	OMG Fasteners & Plates secured 12 per 4-ft x 8-ft board Pattern #2	TWBA, TBA, LVOC, TSCA or TCLA	TWBA or TSCA	-82.5 (Lim. 7)

APPENDIX C – APPROVED ASSEMBLIES FOR TPO SINGLE-PLY MEMBRANES

Assemblies with Adhered Membranes over Insulated Steel Deck (New, Existing, or Recover)									
System No.	Deck Detail	Thermal/Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation or Coverboard	Top Insulation or Coverboard Attachment	Membrane and Attachment (Note 10)		MDP (psf)
							IB TPO	IB TPO FB	
S-AM-85	G33	IBarrier FG SAR adhered to min. 0.5-inch DXF secured with OMG-IP at 1 fastener per 1.33ft ² and primed with IBarrier Primer LV	Min. 1.5-inch II-J	OB500 or RSPG applied 6-inch o.c.	Min. 0.5-inch DXF	RSPG applied 6-inch o.c.	TWBA, TBA, LVOC, or TSCA	TWBA or RSPG(B) applied 4-inch o.c.	-82.5 (Lim. 7)
S-AM-86	G33	IBarrier FG SAR adhered to min. 0.5-inch DXF secured with OMG-IP at 1 fastener per 1.33ft ² and primed with IBarrier Primer LV	Min. 1.5-inch II-J	OB500 or RSPG applied 6-inch o.c.	Min. 0.5-inch DDP or SGF	OB500 or RSPG applied 6-inch o.c.	TSCA, TWBA, TBA or LVOC	TWBA	-82.5 (Lim. 7)
S-AM-87	G33	IBarrier FG SAR adhered to min. 0.5-inch DXF secured with OMG-IP at 1 fastener per 1.33ft ² and primed with IBarrier Primer LV	Two (2) layers of Min. 1.5-inch II-J or one (1) layer of Min. 3-inch II-J	OB500 or RSPG applied 6-inch o.c.	HD ISO-J or REB III-J	OB500 or RSPG applied 6-inch o.c.	TSCA, TWBA, TBA or LVOC	TWBA or OB500(S)	-82.5 (Lim. 7)
S-AM-88	G33	IBarrier FG SAR adhered to min. 0.5-inch DXF secured with OMG-IP at 1 fastener per 1.33ft ² and primed with IBarrier Primer LV	Two (2) layers of Min. 1.5-inch II-J or one (1) layer of Min. 3-inch II-J	OB500 or RSPG applied 6-inch o.c.	DDP or SGF	OB500 or RSPG applied 6-inch o.c.	TSCA, TWBA, TBA or LVOC	TWBA or OB500(S)	-82.5 (Lim. 7)
S-AM-89	G33	IBarrier FG SAR adhered to min. 0.5-inch DDP secured with #14 Fasteners & Plates (Square) at 1 fastener per 1ft ² and primed with IBarrier Primer LV	Min. 0.5-inch III/III-J	RSPG(H)	Min. 1.5-inch III/III-J	RSPG(H)	TSCA, TWBA, TBA or LVOC	OB500(S)	-82.5 (Lim. 7)

APPENDIX C – APPROVED ASSEMBLIES FOR TPO SINGLE-PLY MEMBRANES

Assemblies with Adhered Membranes over Insulated Steel Deck (New, Existing, or Recover)									
System No.	Deck Detail	Thermal/Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation or Coverboard	Top Insulation or Coverboard Attachment	Membrane and Attachment (Note 10)		MDP (psf)
							IB TPO	IB TPO FB	
S-AM-90	G33	IBarrier FG SAR adhered to min. 0.5-inch DDP secured with #14 Fasteners & Plates (Square) at 1 fastener per 1ft ² and primed with IBarrier Primer LV	Min. 2-inch II/III-J	RSPG(H)	REB III-J, HD ISO-J, DDP, or SGF	RSPG(H)	TSCA, TWBA, TBA or LVOC	OB500(S)	-82.5 (Lim. 7)
S-AM-91	G80	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch II/III-J	Simultaneously secured with top layer	Min 0.625-inch DDP	Fasteners & Plates or Fasteners & Trufast Plates secured 1 fastener per 1.33ft ²	TWBA, TBA, LVOC, TSCA or TCLA	TWBA or TSCA	-90 (Lim. 7)
S-AM-92	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch II/III-J or II/III-A	FASTENERS and IBIP or OMG Plates (Square) secured 24 per 4-ft x 8-ft board Pattern #2	TBA, LVOC, or TWBA	-	-90 (Lim. 7)
S-AM-93	G33	OPTIONAL Vapor Barrier	Min. 2-inch II/III-J or II/III-A	Fasteners & Plates secured 1 fastener per 1ft ²	Min. 1.5-inch II-J	RSPG or OB500 applied 6-inch o.c.	TWBA, TBA, LVOC, TSCA or TCLA	OB500(S)	-90 (Lim. 7)
S-AM-94	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch II/III-J	Simultaneously secured with top layer	StormX	OMG Fasteners & Plates secured 18 per 4-ft x 8-ft board Pattern #1	TBA, LVOC, or TWBA	-	-97.5 (Lim. 7)
S-AM-95	G80	IBarrier FG SAR adhered to min. 0.5-inch DXF secured with OMG-IP at 1 fastener per 1.33ft ² and primed with IBarrier Primer LV	Two (2) layers of Min. 1.5-inch II-J or one (1) layer of Min. 3-inch II-J	OB500 or RSPG applied 6-inch o.c.	HD ISO-J or REB III-J	OB500 or RSPG applied 6-inch o.c.	TSCA, TBA, or LVOC	TWBA	-97.5 (Lim. 7)
S-AM-96	G80	IBarrier FG SAR adhered to min. 0.5-inch DXF secured with OMG-IP at 1 fastener per 1.33ft ² and primed with IBarrier Primer LV	Two (2) layers of Min. 1.5-inch II-J or one (1) layer of Min. 3-inch II-J	OB500 or RSPG applied 6-inch o.c.	DDP	OB500 or RSPG applied 6-inch o.c.	TSCA, TWBA, TBA or LVOC	TWBA	-97.5 (Lim. 7)

APPENDIX C – APPROVED ASSEMBLIES FOR TPO SINGLE-PLY MEMBRANES

Assemblies with Adhered Membranes over Insulated Steel Deck (New, Existing, or Recover)									
System No.	Deck Detail	Thermal/Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation or Coverboard	Top Insulation or Coverboard Attachment	Membrane and Attachment (Note 10)		MDP (psf)
							IB TPO	IB TPO FB	
S-AM-97	G80	IBarrier FG SAR adhered to min. 0.5-inch DXF secured with OMG-IP at 1 fastener per 1.33ft ² and primed with IBarrier Primer LV	Two (2) layers of Min. 1.5-inch II-J or one (1) layer of Min. 3-inch II-J	OB500 or RSPG applied 6-inch o.c.	SGF	OB500 or RSPG applied 6-inch o.c.	TWBA, TSCA, TBA, or LVOC	TWBA	-97.5 (Lim. 7)
S-AM-98	G80	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch III-J	Fasteners & Plates secured 1 fastener per 1.33-ft ²	TBA or TWBA	-	-105 (Lim. 7)
S-AM-99	G80	OPTIONAL Vapor Barrier	Min. 1.5-inch II/III-J	Simultaneously secured with top layer	Min. 0.5-inch DXF	Fasteners & Plates secured 1 fastener per 1ft ²	TBA, LVOC, TWBA, or TSCA	-	-105 (Lim. 7)
S-AM-100	G80	OPTIONAL Vapor Barrier	Min. 1.5-inch II/III-J	Simultaneously secured with top layer	Min. 0.5-inch DDP	Fasteners & Plates or Fasteners & Trufast Plates secured 1 fastener per 1ft ²	TBA, LVOC, TWBA, or TSCA	-	-112.5 (Lim. 7)
S-AM-101	G80	OPTIONAL Vapor Barrier	Min. 1.5-inch II/III-J	Simultaneously secured with top layer	DXC	OMG-IP secured 1 fastener per 1ft ²	TBA or LVOC	-	-112.5 (Lim. 7)
S-AM-102	G80	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch II/III-J or II/III-A	Fasteners & Plates secured 1 fastener per 1ft ²	TBA, LVOC, TWBA, or TSCA	-	-112.5 (Lim. 7)
S-AM-103	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch II/III-J	Simultaneously secured with top layer	StormX	OMG Fasteners & Plates secured 20 per 4-ft x 8-ft board Pattern #1 or 18 per 4-ft x 8-ft board Pattern #2	TBA, LVOC, TWBA, or TSCA	-	-112.5 (Lim. 7)
S-AM-104	G80	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch II/III-J or II/III-A	Fasteners & Plates secured 1 fastener per 1ft ²	TBA, LVOC, or TWBA	-	-120 (Lim. 7)
S-AM-105	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch II/III-J	Preliminarily Secured or secured with top layer	HD ISO-J	Fasteners & Plates secured 1 fastener per 1ft ²	TBA or TSCA	-	-120 (Lim. 7)
S-AM-106	G80	OPTIONAL Vapor Barrier	Min. 2-inch II/III-J or II/III-A	Fasteners & Plates secured 1 fastener per 1ft ²	Min. 1.5-inch II-J	RSIA, RSPG or OB500 applied 4-inch o.c.	TSCA, TWBA TBA, or LVOC	-	-120 (Lim. 7)
S-AM-107	G80	OPTIONAL Vapor Barrier	Min. 2-inch II/III-J or II/III-A	Fasteners & Plates secured 1 fastener per 1ft ²	HD ISO-J	RSIA, RSPG, or OB500 applied 4-inch o.c.	TWBA, TBA, LVOC, or TSCA	-	-120 (Lim. 7)
S-AM-108	G80	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch II/III-J	Simultaneously secured with top layer	Min. 0.5-inch DXF	Fasteners & Plates secured 1 fastener per 1ft ²	-	OB500(S)	-135 (Lim. 7)

APPENDIX C – APPROVED ASSEMBLIES FOR TPO SINGLE-PLY MEMBRANES

Assemblies with Adhered Membranes over Insulated Steel Deck (New, Existing, or Recover)									
System No.	Deck Detail	Thermal/Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation or Coverboard	Top Insulation or Coverboard Attachment	Membrane and Attachment (Note 10)		MDP (psf)
							IB TPO	IB TPO FB	
S-AM-109	G80	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch II/III-J	Simultaneously secured with top layer	Min. 0.5-inch SGF	Fasteners & Plates or Fasteners & Trufast Plates secured 1 fastener per 1ft ²	TWBA	-	-150 (Lim. 7)
S-AM-110	G80	IBarrier FG SAR adhered to min. 0.5-inch DDP secured with #14 Fasteners & Plates (Square) at 1 fastener per 1ft ² and primed with IBarrier Primer LV	Min. 0.5-inch II/III-J	RSPG(H)	Min. 1.5-inch II/III-J	RSPG(H)	TBA	-	-150 (Lim. 7)
S-AM-111	G80	IBarrier FG SAR adhered to min. 0.5-inch DDP secured with #14 Fasteners & Plates (Square) at 1 fastener per 1ft ² and primed with IBarrier Primer LV	Min. 2-inch II/III-J	RSPG(H)	REB III-J, HD ISO-J, DDP, or SGF	RSPG(H)	TBA or LVOC	-	-150 (Lim. 7)

Mechanically Fastened Assemblies over Steel Deck (New, Existing, or Recover)								
System No.	Deck Detail	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment (Note 12)	MDP (psf)
S-M-1	G33	OPTIONAL INSULATION under min. 1-inch II/III-J	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	IB TPO or IB TPO FB	Attached in-lap 12-inch o.c. with OMG #15 Roofgrip and OMG 2-3/4" Super XHD Barbed Plate; Fastener rows max. 114-inch o.c.	-30 (Lim. 7)
S-M-2	G33	OPTIONAL INSULATION under min. 1.5-inch II/III-J	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	IB TPO SM (Min. 60 mil)	Attached in-lap 12-inch o.c. with Seam Plates; Fastener rows max. 138-inch o.c.	-30 (Lim. 7)
S-M-3	G33	OPTIONAL INSULATION under min. 1.5-inch II/III-J	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	IB TPO SM (Min. 60 mil)	Attached in-lap 12-inch o.c. with 3" Maxload; Fastener rows max. 138-inch o.c.	-30 (Lim. 7)

APPENDIX C – APPROVED ASSEMBLIES FOR TPO SINGLE-PLY MEMBRANES

Mechanically Fastened Assemblies over Steel Deck (New, Existing, or Recover)								
System No.	Deck Detail	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment (Note 12)	MDP (psf)
S-M-4	G33	OPTIONAL INSULATION under min. 1.5-inch II/III-J	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	IB TPO SM (Min. 60 mil)	Attached in-lap 12-inch o.c. with Trufast Seam Plates; Fastener rows max. 90-inch o.c.	-30 (Lim. 7)
S-M-5	G33	OPTIONAL INSULATION under min. 1.5-inch II/III-J	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	IB TPO or IB TPO FB	Attached in-lap 18-inch o.c. with Seam Plates; Fastener rows max. 66-inch o.c.	-30 (Lim. 7)
S-M-6	G80	OPTIONAL INSULATION under min. 1.5-inch II/III-J	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	IB TPO	Attached in-lap 12-inch o.c. with Seam Plates; Fastener rows max. 138-inch o.c.	-30 (Lim. 7)
S-M-7	G33	OPTIONAL INSULATION under min. 2-inch II/III-J	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	IB TPO	Attached in-lap 12-inch o.c. with Seam Plates; Fastener rows max. 114-inch o.c.	-30 (Lim. 7)
S-M-8	G80	OPTIONAL INSULATION under min. 1-inch II/III-J	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	IB TPO SM (Min. 60 mil)	Attached in-lap 12-inch o.c. with Seam Plates; Fastener rows max. 90-inch o.c.	-37.5 (Lim. 7)
S-M-9	G33	OPTIONAL INSULATION under min. 1.5-inch II/III-J	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	IB TPO SM (Min. 60 mil)	Attached in-lap 12-inch o.c. with Seam Plates; Fastener rows max. 90-inch o.c.	-37.5 (Lim. 7)
S-M-10	G33	OPTIONAL INSULATION under min. 1.5-inch II/III-J	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	IB TPO SM (Min. 60 mil)	Attached in-lap 12-inch o.c. with Seam Plates; Fastener rows max. 90-inch o.c.	-37.5 (Lim. 7)
S-M-11	G80	OPTIONAL INSULATION under min. 1.5-inch II/III-J	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	IB TPO	Attached in-lap 12-inch o.c. with Seam Plates; Fastener rows max. 114-inch o.c.	-37.5 (Lim. 7)
S-M-12	G33	OPTIONAL INSULATION under min. 1.5-inch II/III-J	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	IB TPO	Attached in-lap 12-inch o.c. with 3" Maxload; Fastener rows max. 114-inch o.c.	-37.5 (Lim. 7)
S-M-13	G33	OPTIONAL INSULATION under min. 1.5-inch II/III-J	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	IB TPO SM (Min. 60 mil)	Attached in-lap 12-inch o.c. with Seam Plates; Fastener rows max. 66-inch o.c.	(-45 Lim. 7)

APPENDIX C – APPROVED ASSEMBLIES FOR TPO SINGLE-PLY MEMBRANES

Mechanically Fastened Assemblies over Steel Deck (New, Existing, or Recover)								
System No.	Deck Detail	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment (Note 12)	MDP (psf)
S-M-14	G80	OPTIONAL INSULATION under min. 1-inch II/III-J	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	IB TPO	Attached in-lap 12-inch o.c. with OMG #15 Roofgrip and OMG 2-3/4" Super XHD Barbed Plate; Fastener rows max. 90-inch o.c.	-45 (Lim. 7)
S-M-15	G80	OPTIONAL INSULATION under min. 1.5-inch II/III-J	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	IB TPO or IB TPO FB	Attached in-lap 12-inch o.c. with 3" Maxload; Fastener rows max. 114-inch o.c.	-45 (Lim. 7)
S-M-16	G80	OPTIONAL INSULATION under min. 1.5-inch II/III-J	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	IB TPO or IB TPO FB	Attached in-lap 6-inch o.c. with Seam Plates; Fastener rows max. 114-inch o.c.	-45 (Lim. 7)
S-M-17	22 GA Type N; G80	OPTIONAL INSULATION under min. 1.5-inch II/III-J	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	IB TPO SM (Min. 60 mil)	Attached in-lap 8-inch o.c. with Seam Plates; Fastener rows max. 138-inch o.c.	-45 (Lim. 7)
S-M-18	G33	OPTIONAL INSULATION under min. 1.5-inch II/III-J	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	IB TPO or IB TPO FB	Attached in-lap 12-inch o.c. with Seam Plates; Fastener rows max. 66-inch o.c.	-45 (Lim. 7)
S-M-19	G80	OPTIONAL INSULATION under min. 1.5-inch II/III-J	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	IB TPO or IB TPO FB	Attached in-lap 6-inch o.c. with 3" Maxload; Fastener rows max. 114-inch o.c.	-52.5 (Lim. 7)
S-M-20	G33	OPTIONAL INSULATION under min. 1-inch II/III-J	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	IB TPO or IB TPO FB	Attached in-lap 6-inch o.c. with Seam Plates; Fastener rows max. 114-inch o.c.	-52.5 (Lim. 7)
S-M-21	G80	OPTIONAL INSULATION under min. 1.5-inch II/III-J	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	IB TPO	Attached in-lap 6-inch o.c. with Seam Plates; Fastener rows max. 138-inch o.c.	-52.5 (Lim. 7)
S-M-22	G33	OPTIONAL INSULATION under min. 1.5-inch II/III-J	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	IB TPO SM (Min. 60 mil)	Attached in-lap 12-inch o.c. with Seam Plates; Fastener rows max. 54-inch o.c.	-52.5 (Lim. 7)
S-M-23	22 GA Type N; G80	OPTIONAL INSULATION under min. 1.5-inch II/III-J	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	IB TPO SM (Min. 60 mil)	Attached in-lap 8-inch o.c. with Seam Plates; Fastener rows max. 90-inch o.c.	-60 (Lim. 7)

APPENDIX C – APPROVED ASSEMBLIES FOR TPO SINGLE-PLY MEMBRANES

Mechanically Fastened Assemblies over Steel Deck (New, Existing, or Recover)								
System No.	Deck Detail	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment (Note 12)	MDP (psf)
S-M-24	G80	OPTIONAL INSULATION under min. 1.5-inch II/III-J	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	IB TPO	Attached in-lap 6-inch o.c. with Seam Plates; Fastener rows max. 90-inch o.c.	-60 (Lim. 7)
S-M-25	G33	OPTIONAL INSULATION under min. 1-inch II/III-J	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	IB TPO or IB TPO FB	Attached in-lap 6-inch o.c. with Seam Plates; Fastener rows max. 114-inch o.c.	-60 (Lim. 7)
S-M-26	G33	OPTIONAL INSULATION under min. 1.5-inch II/III-J	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	IB TPO SM (Min. 60 mil)	Attached in-lap 6-inch o.c. with Seam Plates; Fastener rows max. 138-inch o.c.	-60 (Lim. 7)
S-M-27	G33	OPTIONAL INSULATION under min. 1.5-inch II/III-J	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	IB TPO SM (Min. 60 mil)	Attached in-lap 6-inch o.c. with Seam Plates; Fastener rows max. 138-inch o.c.	-60 (Lim. 7)
S-M-28	G33	OPTIONAL INSULATION under min. 1.5-inch II/III-J	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	IB TPO SM (Min. 60 mil)	Attached in-lap 6-inch o.c. with Trufast Seam Plates; Fastener rows max. 90-inch o.c.	-60 (Lim. 7)
S-M-29	G80	OPTIONAL INSULATION under min. 1.5-inch II/III-J	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	IB TPO SM (Min. 60 mil)	Attached in-lap 6-inch o.c. with Seam Plates; Fastener rows max. 138-inch o.c.	-67.5 (Lim. 7)
S-M-30	G33	OPTIONAL INSULATION under min. 1.5-inch II/III-J	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	IB TPO SM (Min. 60 mil)	Attached in-lap 6-inch o.c. with 3" Maxload; Fastener rows max. 138-inch o.c.	-67.5 (Lim. 7)
S-M-31	G33	OPTIONAL INSULATION under min. 1-inch II/III-J	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	IB TPO	Attached in-lap 6-inch o.c. with Seam Plates; Fastener rows max. 90-inch o.c.	-75 (Lim. 7)
S-M-32	G33	OPTIONAL INSULATION under min. 1.5-inch II/III-J	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	IB TPO or IB TPO FB	Attached in-lap 6-inch o.c. with Seam Plates; Fastener rows max. 66-inch o.c.	-90 (Lim. 7)
S-M-33	G33	OPTIONAL INSULATION under min. 1-inch II/III-J	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	IB TPO or IB TPO FB	Attached in-lap 6-inch o.c. with Seam Plates; Fastener rows max. 54-inch o.c.	-97.5 (Lim. 7)

APPENDIX C – APPROVED ASSEMBLIES FOR TPO SINGLE-PLY MEMBRANES

Mechanically Fastened Assemblies over Steel Deck (New, Existing, or Recover)								
System No.	Deck Detail	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment (Note 12)	MDP (psf)
S-M-34	G33	OPTIONAL INSULATION under min. 1.5-inch II/III-J	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	IB TPO SM (Min. 60 mil)	Attached in-lap 6-inch o.c. with Seam Plates; Fastener rows max. 66-inch o.c.	(-105 Lim. 7)

Induction Welded Assemblies over Steel Deck (New, Existing, or Recover)								
System No.	Deck Detail	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment (Note 12)	MDP (psf)
S-W-1	G33	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	OMG RhinoBond Insulation Plate (TPO) and OMG #15 Roofgrip secured 18-inch o.c. in rows 60-inch o.c.	IB TPO	Induction welded to weld plates	-30 (Lim. 7)
S-W-2	G33	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	OMG Heavy Duty and OMG RhinoBond Insulation Plate (TPO) secured 6 per 4-ft x 8-ft board Pattern #2	IB TPO SM (Min. 60 mil)	Induction welded to weld plates	-37.5 (Lim. 7)
S-W-3	22 GA Type N; G80	OPTIONAL INSULATION under min. 1.5-inch II/III-J	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	RhinoBond secured 6 per 4-ft x 8-ft board Type N; Insulation/Cover Boards laid perpendicular to deck flutes; Boards ends offset 8-inch from previous row	IB TPO	Induction welded to weld plates	-37.5 (Lim. 7)
S-W-4	G33	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	OMG RhinoBond Insulation Plate (TPO) and OMG #15 Roofgrip secured 1 fastener per 5.33-ft ²	IB TPO	Induction welded to weld plates	-37.5 (Lim. 7)
S-W-5	G33	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	RhinoBond secured 8 per 4-ft x 8-ft board Pattern #1 (1 fastener per 4-ft ²)	IB TPO SM (Min. 60 mil)	Induction welded to weld plates	-45 (Lim. 7)
S-W-6	G33	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	RhinoBond fastened 12-inch o.c.; Fastener rows max. 72-inch o.c.	IB TPO SM (Min. 60 mil)	Induction welded to weld plates	-45 (Lim. 7)
S-W-7	G33	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	ISOWELD-#15 secured 1 fastener per 4ft ²	IB TPO SM (Min. 60 mil)	Induction welded to weld plates	-45 (Lim. 7)
S-W-8	G80	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	ISOWELD-#15 secured 24-inch o.c. in rows 24-inch o.c.	IB TPO SM (Min. 60 mil)	Induction welded to weld plates	-45 (Lim. 7)
S-W-9	G80	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	ISOWELD-#12 or ISOWELD-#15 secured 12-inch o.c. in rows 60-inch o.c.	IB TPO SM (Min. 60 mil)	Induction welded to weld plates	-45 (Lim. 7)
S-W-10	G80	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	ISOWELD-#12 or ISOWELD-#15 spaced in a 2-ft x 3-ft staggered grid	IB TPO SM (Min. 60 mil)	Induction welded to weld plates	-45 (Lim. 7)

APPENDIX C – APPROVED ASSEMBLIES FOR TPO SINGLE-PLY MEMBRANES

Induction Welded Assemblies over Steel Deck (New, Existing, or Recover)								
System No.	Deck Detail	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment (Note 12)	MDP (psf)
S-W-11	G33	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Trufast IW Plates secured 1 fastener per 5.33ft ² ; Boards placed perpendicular to deck ribs; End joints offset 12-inches between board rows	IB TPO SM (Min. 60 mil)	Induction welded to weld plates	-45 (Lim. 7)
S-W-12	G33	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	OMG RhinoBond Insulation Plate (TPO) and OMG #15 Roofgrip secured 12-inch o.c. in rows 60-inch o.c.	IB TPO	Induction welded to weld plates	-45 (Lim. 7)
S-W-13	G33	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	OMG RhinoBond Insulation Plate (TPO) and OMG #15 Roofgrip secured 6-inch o.c. in rows 120-inch o.c.	IB TPO	Induction welded to weld plates	-45 (Lim. 7)
S-W-14	G33	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	OMG #15 Roofgrip and OMG RhinoBond Insulation Plate (TPO) secured 1 fastener per 5.33ft ²	IB TPO	Induction welded to weld plates	-45 (Lim. 7)
S-W-15	G33	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	RhinoBond secured 6 per 4-ft x 8-ft board Pattern #2 (1 fastener per 5.33-ft ²); Board length perpendicular to deck flutes with 6-inch stagger from preceding course	IB TPO SM (Min. 60 mil)	Induction welded to weld plates	-52.5 (Lim. 7)
S-W-16	G33	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Trufast IW Plates secured 1 fastener per 4ft ² ; Boards placed perpendicular to deck ribs; End joints offset 12-inches between board rows	IB TPO SM (Min. 60 mil)	Induction welded to weld plates	-52.5 (Lim. 7)
S-W-17	22 GA Type N; G80	OPTIONAL INSULATION under min. 1.5-inch II/III-J	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	RhinoBond secured 8 per 4-ft x 8-ft board Type N; Insulation/Cover Boards laid perpendicular to deck flutes; Boards ends offset 8-inch from previous row	IB TPO	Induction welded to weld plates	-52.5 (Lim. 7)
S-W-18	G33	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	OMG RhinoBond Insulation Plate (TPO) and OMG #15 Roofgrip secured 24-inch o.c. in rows 24-inch o.c.	IB TPO	Induction welded to weld plates	-52.5 (Lim. 7)
S-W-19	G33	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	OMG RhinoBond Insulation Plate (TPO) and OMG #15 Roofgrip secured 1 fastener per 4ft ²	IB TPO	Induction welded to weld plates	-52.5 (Lim. 7)
S-W-20	G33	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	ISOWELD-#15 spaced in a 2-ft x 2-ft staggered grid	IB TPO SM (Min. 60 mil)	Induction welded to weld plates	-60 (Lim. 7)
S-W-21	G33	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Trufast IW Plates secured 6-inch o.c. in rows 60-inch o.c.	IB TPO SM (Min. 60 mil)	Induction welded to weld plates	-60 (Lim. 7)
S-W-22	G33	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	RhinoBond secured 8 per 4-ft x 8-ft board Pattern #2 (1 fastener per 4-ft ²); Board length perpendicular to deck flutes with 6-inch stagger from preceding course	IB TPO SM (Min. 60 mil)	Induction welded to weld plates	-67.5 (Lim. 7)

APPENDIX C – APPROVED ASSEMBLIES FOR TPO SINGLE-PLY MEMBRANES

Induction Welded Assemblies over Steel Deck (New, Existing, or Recover)								
System No.	Deck Detail	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment (Note 12)	MDP (psf)
S-W-23	G33	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	RhinoBond secured 8 per 4-ft x 8-ft board Pattern #1 (1 fastener per 4-ft ²)	IB TPO SM (Min. 60 mil)	Induction welded to weld plates	-67.5 (Lim. 7)
S-W-24	G33	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	RhinoBond secured 12 per 4-ft x 8-ft board (1 fastener per 2.67-ft ²)	IB TPO SM (Min. 60 mil)	Induction welded to weld plates	-75 (Lim. 7)
S-W-25	G33	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	ISOWELD-#15 secured 1 fastener per 3.2-ft ²	IB TPO SM (Min. 60 mil)	Induction welded to weld plates	-75 (Lim. 7)
S-W-26	G33	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	RhinoBond spaced in a 24-inch by 16-inch grid pattern	IB TPO SM (Min. 60 mil)	Induction welded to weld plates	-82.5 (Lim. 7)
S-W-27	G33	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	ISOWELD-#15 spaced in a 1.5-ft x 2-ft staggered grid	IB TPO SM (Min. 60 mil)	Induction welded to weld plates	-82.5 (Lim. 7)
S-W-28	G33	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Trufast IW Plates secured 1 fastener per 2ft ² ; Boards placed perpendicular to deck ribs; End joints offset 12-inches between board rows	IB TPO SM (Min. 60 mil)	Induction welded to weld plates	-82.5 (Lim. 7)
S-W-29	G33	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	OMG RhinoBond Insulation Plate (TPO) and OMG #15 Roofgrip spaced in a 24-inch by 16-inch grid pattern	IB TPO	Induction welded to weld plates	-82.5 (Lim. 7)
S-W-30	G80	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	RhinoBond spaced in a 24-inch by 16-inch grid pattern	IB TPO SM (Min. 60 mil)	Induction welded to weld plates	-90 (Lim. 7)
S-W-31	G33	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	RhinoBond secured 15 per 4-ft x 8-ft board (1 fastener per 2.13-ft ²)	IB TPO SM (Min. 60 mil)	Induction welded to weld plates	-90 (Lim. 7)
S-W-32	G33	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	RhinoBond secured 12 per 4-ft x 8-ft board Pattern #1 (1 fastener per 2.67-ft ²); Board length perpendicular to deck flutes with 6-inch stagger from preceding course	IB TPO SM (Min. 60 mil)	Induction welded to weld plates	-90 (Lim. 7)
S-W-33	G33	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	ISOWELD-#15 secured 6-inch o.c. in rows 60-inch o.c.	IB TPO SM (Min. 60 mil)	Induction welded to weld plates	-90 (Lim. 7)
S-W-34	G80	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Trufast IW Plates secured 6-inch o.c. in rows 60-inch o.c.	IB TPO SM (Min. 60 mil)	Induction welded to weld plates	-90 (Lim. 7)
S-W-35	G33	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	OMG RhinoBond Insulation Plate (TPO) and OMG #15 Roofgrip secured 6-inch o.c. in rows 60-inch o.c.	IB TPO	Induction welded to weld plates	-90 (Lim. 7)

APPENDIX C – APPROVED ASSEMBLIES FOR TPO SINGLE-PLY MEMBRANES

Induction Welded Assemblies over Steel Deck (New, Existing, or Recover)								
System No.	Deck Detail	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment (Note 12)	MDP (psf)
S-W-36	G80	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	ISOWELD-#15 secured 18-inch o.c. in rows 18-inch o.c.	IB TPO SM (Min. 60 mil)	Induction welded to weld plates	-97.5 (Lim. 7)
S-W-37	G80	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	ISOWELD-#12 or ISOWELD-#15 secured 6-inch o.c. in rows 60-inch o.c.	IB TPO SM (Min. 60 mil)	Induction welded to weld plates	-97.5 (Lim. 7)
S-W-38	G80	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Trufast IW Plates secured 1 fastener per 2ft ² ; Boards placed perpendicular to deck ribs; End joints offset 12-inches between board rows	IB TPO SM (Min. 60 mil)	Induction welded to weld plates	-105 (Lim. 7)

Adhered Assemblies over Wood Deck (New or Existing)						
System No.	Deck Detail	Base Insulation (Note 6)	Top Insulation or Coverboard	Membrane and Attachment (Note 10)		MDP (psf)
				IB TPO	IB TPO FB	
W-A-1	T15/32P, L24	Min. 1.5-inch II/III-J in OB500 applied 12-inch o.c.	-	TSCA, TWBA, TBA or LVOC	TWBA or OB500(S)	-37.5 (Lim. 9)
W-A-2	T15/32P, L24	OPTIONAL Min. 1.5-inch II/III-J in OB500 applied 12-inch o.c.	HD ISO-J, DDP, DXF, or SGF in OB500 applied 12-inch o.c.	TSCA, TWBA, TBA or LVOC	TWBA or OB500(S)	-37.5 (Lim. 9)
W-A-3	T7/16O, L24	OPTIONAL Min. 1.5-inch II/III-J in RSPG or OB500 applied 12-inch o.c.	HD ISO-J, DDP, DXF, or SGF in RSPG or OB500 applied 12-inch o.c.	TSCA, TWBA, TBA or LVOC	TWBA or OB500(S)	-45 (Lim. 9)
W-A-4	T7/16O, L24	Min. 1.5-inch II/III-J in RSPG or OB500 applied 12-inch o.c.	-	TSCA, TWBA, TBA or LVOC	TWBA or OB500(S)	-45 (Lim. 9)
W-A-5	T19/32P, L24	Min. 1.5-inch II/III-J in OB500 applied 12-inch o.c.	-	TSCA, TWBA, TBA or LVOC	TWBA or OB500(S)	-45 (Lim. 9)
W-A-6	T19/32P, L24	OPTIONAL Min. 1.5-inch II/III-J in OB500 applied 12-inch o.c.	HD ISO-J, DDP, DXF, or SGF in OB500 applied 12-inch o.c.	TSCA, TWBA, TBA or LVOC	TWBA or OB500(S)	-45 (Lim. 9)
W-A-7	T7/16O, L24	Min. 1-inch II/III-J in RSPG applied 6-inch o.c.	HD ISO-J, SGF, or DDP in RSPG applied 6-inch o.c.	LVOC, TBA, or TSCA	TWBA or OB500(S)	-105 (Lim. 9)
W-A-8	T7/16O, L24	Min. 1-inch II/III-J in RSPG applied 6-inch o.c.	HD ISO-J, SGF, or DDP in RSPG applied 6-inch o.c.	TWBA	-	-105 (Lim. 9)
W-A-9	T7/16O, L24	Min. 1-inch II/III-J in RSPG applied 6-inch o.c.	-	LVOC, TBA, TSCA, or TWBA	OB500(S)	-105 (Lim. 9)
W-A-10	T15/32P, L24	Min. 1-inch II/III-J in OB500 applied 6-inch o.c.	HD ISO-J, SGF, DDP, or DXF in OB500 applied 6-inch o.c.	LVOC, TBA, or TSCA	TWBA or OB500(S)	-112.5 (Lim. 9)
W-A-11	T15/32P, L24	Min. 1-inch II/III-J in OB500 applied 6-inch o.c.	HD ISO-J, SGF, or DDP in OB500 applied 6-inch o.c.	TWBA	-	-112.5 (Lim. 9)
W-A-12	T15/32P, L24	Min. 1-inch II/III-J in OB500 applied 6-inch o.c.	-	LVOC, TBA, TSCA, or TWBA	OB500(S)	-112.5 (Lim. 9)

APPENDIX C – APPROVED ASSEMBLIES FOR TPO SINGLE-PLY MEMBRANES

Assemblies with Adhered Membranes over Insulated Wood Deck (New, Existing, or Recover)								
System No.	Deck Detail	Base Insulation	Base Insulation Attachment	Top Insulation or Coverboard	Top Insulation or Coverboard Attachment	Membrane and Attachment (Note 10)		MDP (psf)
						IB TPO	IB TPO FB	
W-AM-1	T7/16O, L24	Optional INSULATION and/or Vapor Barrier	Preliminarily Secured or secured with top layer	Min. 1.5-inch II/III-J or II/III-A	Trufast VERSA-FAST fastener and OMG 3" Round Metal Plate secured 12 per 4-ft x 8-ft board Pattern #1	TBA, TWBA, LVOC, or TSCA	OB500(S)	-30 (Lim. 7)
W-AM-2	T7/16O, L24	OPTIONAL INSULATION	Preliminarily Secured or secured with top layer	HD ISO-J	OMG Heavy Duty and OMG Plates (Square) secured 12 per 4-ft x 8-ft board Pattern #1	TBA, TWBA, LVOC, or TSCA	OB500(S), TWBA or TSCA	-30 (Lim. 7)
W-AM-3	T7/16O, L24	OPTIONAL INSULATION	Preliminarily Secured or secured with top layer	HD ISO-J	Trufast VERSA-FAST fastener and IBIP secured 11 per 4-ft x 8-ft board	TBA, TWBA, LVOC, or TSCA	OB500(S), TWBA or TSCA	-30 (Lim. 7)
W-AM-4	T15/32P, L24	OPTIONAL INSULATION	Preliminarily Secured or secured with top layer	HD ISO-J	Trufast VERSA-FAST fastener and IBIP secured 11 per 4-ft x 8-ft board	TBA, TWBA, LVOC, or TSCA	OB500(S), TWBA or TSCA	-30 (Lim. 7)
W-AM-5	T7/16O, L24	OPTIONAL INSULATION under min. 1.5-inch II/III-J	Preliminarily Secured or secured with top layer	HD ISO-J	Fasteners & Plates secured 1 fastener per 2-ft ²	TBA, TWBA, LVOC, or TSCA	RSPG(B) or OB500(S)	-37.5 (Lim. 7)
W-AM-6	T7/16O, L24	OPTIONAL INSULATION	Preliminarily Secured or secured with top layer	HD ISO-J	Fasteners & Plates secured 1 per 2.13ft ²	TBA, TWBA, LVOC, or TSCA	OB500(S), TWBA or TSCA	-37.5 (Lim. 7)
W-AM-7	T15/32P, L24	-	-	HD ISO-J	RSPG applied 12-inch o.c.	TBA, LVOC, TWBA or TSCA	OB500(S)	-37.5 (Lim. 7)
W-AM-8	T19/32P, L24	Optional INSULATION and/or Vapor Barrier	Preliminarily Secured or secured with top layer	Min. 1.5-inch III-J	IB, TF or OMG-IP secured 1 fastener per 4ft ²	TBA, TWBA, LVOC, or TSCA	RSPG(B) or OB500(S)	-37.5 (Lim. 7)
W-AM-9	T7/16O, L24	Optional INSULATION and/or Vapor Barrier	Preliminarily Secured or secured with top layer	DDP	Trufast VERSA-FAST fastener and OMG Flat Bottom Metal Plate secured 12 per 4-ft x 8-ft board Pattern #1	TSCA, TWBA, TBA or LVOC	RSPG(B), TWBA, or OB500(S)	-37.5 (Lim. 7)
W-AM-10	T7/16O, L24	-	-	HD ISO-J	RSPG applied 12-inch o.c.	TBA, TWBA, LVOC, or TSCA	OB500(S), TWBA or TSCA	-45 (Lim. 7)
W-AM-11	T7/16O, L24	OPTIONAL INSULATION	Preliminarily Secured or secured with top layer	HD ISO-J	OMG Heavy Duty and OMG Plates (Square) secured 15 per 4-ft x 8-ft board	TBA, TWBA, LVOC, or TSCA	OB500(S), TWBA or TSCA	-45 (Lim. 7)
W-AM-12	T19/32P, L24	Optional INSULATION and/or Vapor Barrier	Preliminarily Secured or secured with top layer	Min. 1.5-inch II/III-J or II/III-A	IB or TF secured 12 per 4-ft x 8-ft board Pattern #1	TBA, TWBA, LVOC, or TSCA	OB500(S)	-45 (Lim. 7)

APPENDIX C – APPROVED ASSEMBLIES FOR TPO SINGLE-PLY MEMBRANES

Assemblies with Adhered Membranes over Insulated Wood Deck (New, Existing, or Recover)								
System No.	Deck Detail	Base Insulation	Base Insulation Attachment	Top Insulation or Coverboard	Top Insulation or Coverboard Attachment	Membrane and Attachment (Note 10)		MDP (psf)
						IB TPO	IB TPO FB	
W-AM-13	T7/16O, L24	OPTIONAL INSULATION under min. 1.5-inch II/III-J or II/III-A	OMG #15 Roofgrip and OMG Plates secured 16 per 4-ft x 8-ft board	DDP, DXF, or SGF	RSIA, RSPG, or OB500 applied 12-inch o.c.; or RSPG(S)	TSCA, TWBA, TBA or LVOC	RSPG(B), TWBA, or OB500(S)	-45 (Lim. 7)
W-AM-14	T15/32P, L24	OPTIONAL INSULATION	Preliminarily Secured or secured with top layer	HD ISO-J	Trufast VERSA-FAST fastener and IBIP secured 18 per 4-ft x 8-ft board Pattern #3	TBA, TWBA, LVOC, or TSCA	OB500(S), TWBA or TSCA	-45 (Lim. 7)
W-AM-15	T19/32P, L24	OPTIONAL INSULATION	Preliminarily Secured or secured with top layer	SGF or DDP	OMG Heavy Duty and OMG Plates (Square) secured 1 fastener per 1.45ft ²	TSCA, TWBA, TBA or LVOC	RSPG(B), TWBA, TSCA or OB500(S)	-45 (Lim. 7)
W-AM-16	T15/32P, L24	Optional INSULATION and/or Vapor Barrier	Preliminarily Secured or secured with top layer	Min. 2-inch II-J	Fasteners & Plates secured 16 per 4-ft x 8-ft board	LVOC or TBA	RSPG(B) or OB500(S)	-52.5 (Lim. 7)
W-AM-17	T15/32P, L24	Optional INSULATION and/or Vapor Barrier	Preliminarily Secured or secured with top layer	Min. 2-inch III-J	Fasteners & Plates secured 16 per 4-ft x 8-ft board	TBA, TWBA, LVOC, or TSCA	RSPG(B) or OB500(S)	-52.5 (Lim. 7)
W-AM-18	T15/32P, L24	Min. 2-inch II/III-J	Fasteners & Plates secured 16 per 4-ft x 8-ft board	Min. 1.5-inch II-J	OB500, RSIA, or RSPG applied 6-inch o.c.	LVOC or TBA	RSPG(B) or OB500(S)	-52.5 (Lim. 7)
W-AM-19	T15/32P, L24	Min. 2-inch II/III-J	Fasteners & Plates secured 16 per 4-ft x 8-ft board	Min. 1.5-inch III-J	OB500, RSIA, or RSPG applied 6-inch o.c.	TBA, TWBA, LVOC, or TSCA	RSPG(B) or OB500(S)	-52.5 (Lim. 7)
W-AM-20	T15/32P, L24	Min. 2-inch II/III-J	Fasteners & Plates secured 16 per 4-ft x 8-ft board	HD ISO-J	OB500, RSIA, or RSPG applied 6-inch o.c.	TWBA, TBA, LVOC, or TSCA	OB500(S)	-52.5 (Lim. 7)
W-AM-21	T15/32P, L24	Min. 2-inch II/III-J	Fasteners & Plates secured 16 per 4-ft x 8-ft board	Min. 0.5-inch DXF, SGF, or DDP	OB500, RSIA, or RSPG applied 6-inch o.c.	TSCA, TWBA, TBA or LVOC	-	-52.5 (Lim. 7)
W-AM-22	T19/32P, L24	OPTIONAL INSULATION	Preliminarily Secured or secured with top layer	Min. 1.5-inch III-J	FASTENERS (no OMG #12 Standard Roofgrip) with OMG Plates (Square) secured 18 per 4-ft x 8-ft board Pattern #1	TBA, TWBA, LVOC, or TSCA	RSPG(B) or OB500(S)	-60 (Lim. 7)
W-AM-23	T15/32P, L24	Optional INSULATION and/or Vapor Barrier	Preliminarily Secured or secured with top layer	Min. 0.5-inch DXF	OMG Flat Bottom Metal Plate and OMG Heavy Duty secured 24 per 4-ft x 8-ft board Pattern #2	TSCA, TWBA, TBA or LVOC	OB500(S)	-75 (Lim. 7)
W-AM-24	T19/32P, L24	Optional INSULATION and/or Vapor Barrier	Preliminarily Secured or secured with top layer	Min. 0.5-inch DXF	OMG Flat Bottom Metal Plate and OMG Heavy Duty secured 24 per 4-ft x 8-ft board Pattern #2	TSCA, TWBA, TBA or LVOC	OB500(S)	-82.5 (Lim. 7)

APPENDIX C – APPROVED ASSEMBLIES FOR TPO SINGLE-PLY MEMBRANES

Assemblies with Adhered Membranes over Insulated Wood Deck (New, Existing, or Recover)								
System No.	Deck Detail	Base Insulation	Base Insulation Attachment	Top Insulation or Coverboard	Top Insulation or Coverboard Attachment	Membrane and Attachment (Note 10)		MDP (psf)
						IB TPO	IB TPO FB	
W-AM-25	T15/32P, L24	Optional INSULATION and/or Vapor Barrier	Preliminarily Secured or secured with top layer	Min. 2-inch II/III-J	Fasteners & Plates secured 24 per 4-ft x 8-ft board Pattern #2	TSCA, TWBA, TBA or LVOC	-	-82.5 (Lim. 7)
W-AM-26	T15/32P, L24	Min. 2-inch II/III-J	Fasteners & Plates secured 24 per 4-ft x 8-ft board Pattern #2	Min. 1.5-inch II/III-J or II/III-A	OB500, RSIA, or RSPG applied 6-inch o.c.	TSCA, TWBA, TBA or LVOC	-	-82.5 (Lim. 7)
W-AM-27	T15/32P, L24	Min. 2-inch II/III-J	Fasteners & Plates secured 24 per 4-ft x 8-ft board Pattern #2	HD ISO-J	OB500, RSIA, or RSPG applied 6-inch o.c.	TWBA, TBA, LVOC, or TSCA	OB500(S)	-82.5 (Lim. 7)
W-AM-28	T15/32P, L24	Min. 2-inch II/III-J	Fasteners & Plates secured 24 per 4-ft x 8-ft board Pattern #2	Min. 0.5-inch DXF, SGF, or DDP	OB500, RSIA, or RSPG applied 6-inch o.c.	TWBA, TBA, LVOC, or TSCA	-	-82.5 (Lim. 7)

Mechanically Fastened Assemblies over Wood Deck (New, Existing, or Recover)									
System No.	Deck Detail	Thermal Barrier	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment (Note 12)	
								MDP (psf)	
W-M-1	T19/32P, L24	As required	Min. 0.25-inch INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	IB TPO	Attached in-lap 4-inch o.c. with OMG 2" Barbed Plates and OMG #15 Roofgrip; Fastener rows max. 114-inch o.c.	-37.5 (Lim. 7)
W-M-2	T7/16O, L24	As required	Min. 0.5-inch INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	IB TPO	Attached in-lap 6-inch o.c. with VERSA-FAST secured 4 Fasteners (Wedge)/Plate; Fastener rows max. 138-inch o.c.	-37.5 (Lim. 7)
W-M-3	T19/32P, L24	As required	Min. 0.5-inch INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	IB TPO	Attached in-lap 6-inch o.c. with VERSA-FAST secured 3 Fasteners/Plate; Fastener rows max. 138-inch o.c.	-52.5 (Lim. 7)
W-M-4	T19/32P, L24	As required	Min. 0.25-inch INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	IB TPO	Attached in-lap 6-inch o.c. with Seam Plates; Fastener rows max. 54-inch o.c.	-60 (Lim. 7)
W-M-5	T19/32P, L24	As required	Min. 0.25-inch INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	IB TPO	Attached in-lap 6-inch o.c. with OMG Heavy Duty and OMG Eyehook Accuseam Plate; Fastener rows max. 90-inch o.c.	-60 (Lim. 7)
W-M-6	T19/32P, L24	As required	OPTIONAL INSULATION	Preliminarily Secured or secured with top layer	Min. 0.25-inch DensDeck, DDP, DXF, or SGF	Preliminarily Secured	IB TPO	Attached in-lap 6-inch o.c. with Seam Plates; Fastener rows max. 90-inch o.c.	-60 (Lim. 7)

APPENDIX C – APPROVED ASSEMBLIES FOR TPO SINGLE-PLY MEMBRANES

Induction Welded Assemblies over Wood Deck (New, Existing, or Recover)									
System No.	Deck Detail	Thermal Barrier	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment (Note 12)	MDP (psf)
W-W-1	T7/16O or T15/32P, L24	As required	OPTIONAL INSULATION	Preliminarily Secured or secured with top layer	Min. 0.5-inch II/III-J or Cover Board	OMG Heavy Duty (min. 1-inch embedment into wood supports) and OMG RhinoBond Insulation Plate (TPO), Trufast TPO IW Plates, or isoweld FI-P-6.8-TPO plates secured max. 12-inch o.c. through sheathing into wood structural supports in rows max. 8-ft o.c.	IB TPO SM (Min. 60 mil)	Induction welded to weld plates	-37.5 (Lim. 7)
W-W-2	T7/16O or T15/32P, L24	As required	OPTIONAL INSULATION	Loose laid	HD ISO-J	OMG Heavy Duty (min. 1-inch embedment into wood supports) and OMG RhinoBond Insulation Plate (TPO), Trufast TPO IW Plates, or isoweld FI-P-6.8-TPO plates secured max. 24-inch o.c. through sheathing into wood structural supports in rows max. 48-inch" o.c.	IB TPO SM (Min. 60 mil)	Induction welded to weld plates	-37.5 (Lim. 7)
W-W-3	T15/32P, L24	As required	Min. 0.5-inch INSULATION	Loose laid	OPTIONAL Cover Board	Trufast VERSA-FAST or FASTENERS and OMG RhinoBond Insulation Plate (TPO) secured 1 fastener per 4ft ²	IB TPO SM (Min. 60 mil)	Induction welded to weld plates	-37.5 (Lim. 7)
W-W-4	T19/32P, L24	As required	Min. 0.5-inch INSULATION	Loose laid	OPTIONAL Cover Board	IW secured 1 fastener per 4ft ²	IB TPO SM (Min. 60 mil)	Induction welded to weld plates	-37.5 (Lim. 7)
W-W-5	T15/32P, L24	As required	Min. 0.25-inch INSULATION	Loose laid	OPTIONAL Cover Board	OMG Heavy Duty and OMG RhinoBond Insulation Plate (TPO) secured 16-inch o.c. in rows 24-inch o.c.	IB TPO SM (Min. 60 mil)	Induction welded to weld plates	-37.5 (Lim. 7)
W-W-6	T1/2O, L24	As required	Min. 0.5-inch INSULATION	Loose laid	OPTIONAL Cover Board	OMG #15 Roofgrip and OMG RhinoBond Insulation Plate (TPO), Trufast TPO IW Plates, or isoweld FI-P-6.8-TPO plates secured 1 fastener per 4ft ²	IB TPO	Induction welded to weld plates	-37.5 (Lim. 7)
W-W-7	T15/32, L24	As required	Min. 0.25-inch INSULATION	Loose laid	OPTIONAL Cover Board	OMG Heavy Duty and OMG RhinoBond Insulation Plate (TPO) secured 1 fastener per 4ft ²	IB TPO SM (Min. 60 mil)	Induction welded to weld plates	-45 (Lim. 7)

APPENDIX C – APPROVED ASSEMBLIES FOR TPO SINGLE-PLY MEMBRANES

Induction Welded Assemblies over Wood Deck (New, Existing, or Recover)									
System No.	Deck Detail	Thermal Barrier	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment (Note 12)	MDP (psf)
W-W-8	T7/16O or T15/32P, L24	As required	Min. 1-inch II/III-J or II/III-A	Loose laid	OPTIONAL Cover Board	OMG Heavy Duty (min. 1.5-inch embedment into wood supports) and OMG RhinoBond Insulation Plate (TPO), Trufast TPO IW Plates, or <i>isoweld</i> FI-P-6.8-TPO plates secured max. 24-inch o.c. through sheathing into wood structural supports in rows max. 48-inch o.c.	IB TPO SM (Min. 60 mil)	Induction welded to weld plates	-45 (Lim. 7)
W-W-9	T7/16O or T15/32P, L24	As required	OPTIONAL INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	OMG Heavy Duty (min. 1.75-inch embedment into wood supports) and OMG RhinoBond Insulation Plate (TPO), Trufast TPO IW Plates, or <i>isoweld</i> FI-P-6.8-TPO plates secured max. 18-inch o.c. through sheathing into wood structural supports in rows max. 4-ft o.c.	IB TPO SM (Min. 60 mil)	Induction welded to weld plates	-45 (Lim. 7)
W-W-10	T19/32P, L24	As required	Min. 0.5-inch INSULATION	Loose laid	OPTIONAL Cover Board	IW #15 secured 1 fastener per 5.33ft ²	IB TPO	Induction welded to weld plates	-45 (Lim. 7)
W-W-11	T7/16O, L24 or T15/32P, L24	As required	Min. 0.5-inch INSULATION	Loose laid	OPTIONAL Cover Board	OMG #15 Roofgrip and OMG RhinoBond Insulation Plate (TPO), Trufast TPO IW Plates, or <i>isoweld</i> FI-P-6.8-TPO plates secured 1 fastener per 2.67ft ²	IB TPO	Induction welded to weld plates	-45 (Lim. 7)
W-W-12	T19/32P, L24	As required	Min. 0.5-inch INSULATION	Loose laid	OPTIONAL Cover Board	OMG #15 Roofgrip and OMG RhinoBond Insulation Plate (TPO) 1 fastener per 5.33ft ²	IB TPO	Induction welded to weld plates	-45 (Lim. 7)
W-W-13	T15/32P, L24	As required	Min. 0.25-inch INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	OMG Heavy Duty (min. 1.5-inch embedment into wood supports) and OMG RhinoBond Insulation Plate (TPO), Trufast TPO IW Plates, or <i>isoweld</i> FI-P-6.8-TPO plates secured max. 24-inch o.c. through sheathing into wood structural supports in rows max. 24-inch o.c.	IB TPO SM (Min. 60 mil)	Induction welded to weld plates	-52.5 (Lim. 7)

APPENDIX C – APPROVED ASSEMBLIES FOR TPO SINGLE-PLY MEMBRANES

Induction Welded Assemblies over Wood Deck (New, Existing, or Recover)									
System No.	Deck Detail	Thermal Barrier	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment (Note 12)	MDP (psf)
W-W-14	T15/32P, L24	As required	Min. 0.25-inch INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	OMG Heavy Duty (min. 1.5-inch embedment into wood supports) and OMG RhinoBond Insulation Plate (TPO), Trufast TPO IW Plates, or isoweld FI-P-6.8-TPO plates secured max. 9-inch o.c. through sheathing into wood structural supports in rows max. 48-inch o.c.	IB TPO SM (Min. 60 mil)	Induction welded to weld plates	-60 (Lim. 7)
W-W-15	T15/32P, L24	As required	Min. 0.25-inch INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	OMG Heavy Duty (min. 1.5-inch embedment into wood supports) and OMG RhinoBond Insulation Plate (TPO), Trufast TPO IW Plates, or isoweld FI-P-6.8-TPO plates secured max. 6-inch o.c. through sheathing into wood structural supports in rows max. 48-inch o.c.	IB TPO SM (Min. 60 mil)	Induction welded to weld plates	-112.5 (Lim. 7)

END OF REPORT