



EVALUATION REPORT

FLORIDA BUILDING CODE, 9TH EDITION (2026)

Manufacturer: PERFORMANCE ROOF SYSTEMS, INC.
A SOPREMA Group Company
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Issued October 6, 2026

Manufacturing Plants: Kansas City, MO

Quality Assurance: UL LLC (QUA9625)

SCOPE

Category: Roofing
Subcategory: Modified Bitumen Roof System
Code Edition: Florida Building Code, 9th Edition (2026) including High-Velocity Hurricane Zones (HVHZ)
Code Sections: 1504.3.1, 1504.6, 1504.7, 1507.11, 1515.1.1, 1515.1.4, 1515.2.4, 1523.1.1, 1523.6.2
Properties: Wind Resistance, Physical Properties, Impact Resistance

PRODUCT DESCRIPTION

Products	Specification	Description
Bitutak Cold	ASTM D 6222	Smooth surfaced, APP polymer modified bitumen polyester reinforced membrane.
Bitutak Cold Mineral	ASTM D 6222	Mineral surfaced APP polymer modified bitumen, polyester reinforced membrane
Bitutak MB	ASTM D 6222	Smooth surfaced, APP polymer modified bitumen polyester reinforced membrane.
Bitutak MB Mineral	ASTM D 6222	Mineral surfaced APP polymer modified bitumen, polyester reinforced membrane
Derbibase	ASTM D 6509	APP modified bitumen glass fiber base sheet for mechanical attachment or Permastic cold adhesive application.
Derbibase Ultra	ASTM D 6509	Smooth surfaced, APP modified bitumen glass fiber base sheet for mechanical attachment or Permastic cold adhesive application.
Derbibase SA	ASTM D 6163	Smooth surfaced, SBS modified bitumen glass fiber reinforced sheet for use as a self-adhered base or ply sheet
Derbibase SA Ultra	ASTM D 6163	Smooth surfaced, SBS modified bitumen glass fiber reinforced sheet for use as a self-adhered base or ply sheet
Derbibase HV	ASTM D 6509	Smooth surfaced, APP modified bitumen glass fiber base sheet for mechanical attachment or Permastic cold adhesive application.
Derbicolor GP	ASTM D 6223	Mineral surfaced, APP modified bitumen glass fiber and polyester reinforced membrane for torch application or Permastic cold adhesive application.
Derbicolor GP FR	ASTM D 6223	Mineral surfaced, fire resistant, APP modified bitumen glass fiber and polyester reinforced membrane for torch application or Permastic cold adhesive application.
Derbicolor GP FR CR	ASTM D 6223	Mineral surfaced, fire resistant, APP modified bitumen glass fiber and polyester reinforced membrane for torch application or Permastic cold adhesive application.
Derbicolor P	ASTM D 6222	Mineral surfaced APP polymer modified bitumen, polyester reinforced membrane
Derbicolor P FR	ASTM D 6222	Mineral surfaced, fire resistant, APP modified bitumen polyester reinforced membrane for torch application or Permastic cold adhesive application.
Derbicolor P FR CR	ASTM D 6222	Mineral surfaced, fire resistant, APP modified bitumen polyester reinforced membrane for torch application or Permastic cold adhesive application.
Derbicolor XPS	ASTM D 6223	Mineral surfaced, APP modified bitumen glass fiber and polyester reinforced membrane for torch application or Permastic cold adhesive application.
Derbicolor XPS FR	ASTM D 6223	Mineral surfaced, fire resistant, APP modified bitumen glass fiber and polyester reinforced membrane for torch application or Permastic cold adhesive application.
Derbicolor XPS FR CR	ASTM D 6223	Mineral surfaced, fire resistant, APP modified bitumen glass fiber and polyester reinforced membrane for torch application or Permastic cold adhesive application.

Products	Specification	Description
Derbigum GP	ASTM D 6223	Smooth surfaced, APP modified bitumen glass fiber and polyester reinforced membrane for torch application or Permastic cold adhesive application.
Derbigum GP FR	ASTM D 6223	Smooth Surfaced, fire resistant, APP modified bitumen glass fiber and polyester reinforced membrane for torch application or Permastic cold adhesive application.
Derbigum P	ASTM D 6222	Smooth surfaced, APP polymer modified bitumen polyester reinforced membrane.
Derbigum XPS	ASTM D 6223	Smooth surfaced, APP modified bitumen glass fiber and polyester reinforced membrane for torch application or Permastic cold adhesive application.
Derbigum XPS FR	ASTM D 6223	Smooth surfaced, fire resistant APP modified bitumen glass fiber and polyester reinforced membrane for torch application or Permastic cold adhesive application.
PRS Glass Base	ASTM D 4601	Asphalt coated fiberglass base sheet for use in hot-mop, mechanically fastened or Permastic cold adhesive application.
PRS Glass Ply IV	ASTM D 2178 Type IV	Asphalt coated fiberglass ply sheet for use in hot-mop, or mechanically fastened or Permastic cold adhesive application.
PRS Glass Ply VI	ASTM D 2178 Type IV	Asphalt coated fiberglass ply sheet for use in hot-mop or mechanically fastened or Permastic cold adhesive application.
PRS Modified Base	ASTM D 5147	SBS polymer modified bitumen base sheet.
Resisto Bitutak Cold	ASTM D 6222	Smooth surfaced, APP polymer modified bitumen polyester reinforced membrane.
Resisto Bitutak MB	ASTM D 6222	Smooth surfaced APP polymer modified bitumen polyester reinforced membrane.
Resisto Bitutak MB Mineral	ASTM D 6222	Mineral surfaced APP polymer modified bitumen, polyester reinforced membrane.

REFERENCES

Entity	Report No.	Standards (Year)
Atlantic & Caribbean Roof Consulting (TST4671)	ACRC 06-028	TAS 114(J) (2011)
FM Approvals (TST1867)	1D7A4.AM	FM 4470 (2022)
FM Approvals (TST1867)	2Y3A2.AM	FM 4470 (2022)
FM Approvals (TST1867)	3002688	FM 4470 (2022)
FM Approvals (TST1867)	3003642	FM 4470 (2022)
FM Approvals (TST1867)	3007274	FM 4470 (2022)
FM Approvals (TST1867)	3008869	FM 4470 (2022)
FM Approvals (TST1867)	3009502	FM 4470 (2022)
FM Approvals (TST1867)	3014452	FM 4470 (2022)
FM Approvals (TST1867)	3014692	FM 4470 (2022)
FM Approvals (TST1867)	3017037	FM 4470 (2022)
FM Approvals (TST1867)	3018732	FM 4450 (1992)
FM Approvals (TST1867)	3024594	FM 4454 (1998 ¹)
FM Approvals (TST1867)	3026964	FM 4450 (1992)
FM Approvals (TST1867)	3027878	FM 4470 (2022)
FM Approvals (TST1867)	3033490	FM 4470 (2022)
FM Approvals (TST1867)	3036067	FM 4470 (2022)
FM Approvals (TST1867)	3038554	FM 4470 (2022)
FM Approvals (TST1867)	3045286	FM 4470 (2022)
FM Approvals (TST1867)	3046791	FM 4470 (2022)
FM Approvals (TST1867)	3049896	FM 4454 (1998 ¹); FM 4470 (2022)
FM Approvals (TST1867)	3053409	FM 4470 (2022)
FM Approvals (TST1867)	3058967	FM 4470 (2022)
FM Approvals (TST1867)	3059931	FM 4470 (2022)
FM Approvals (TST1867)	3057888	FM 4470 (2022)
FM Approvals (TST1867)	PR451897	FM 4470 (2022)
Nemo/etc. (TST6049)	4a-SOP-21-LSWUS-03.A	FM 4474 (D) (2020); TAS 114 (D) (2011)
PRI Construction Materials Technologies (TST5878)	CELC-004-02-01.1	FM 4474 (D) (2020); TAS 114 (J) (2011)
PRI Construction Materials Technologies (TST5878)	NGC-037-02-01	FM 4474 (D) (2020); TAS 114 (J) (2011)
PRI Construction Materials Technologies (TST5878)	PRS-026-02-01	ASTM D 6222 [2016(2023)]; ASTM G 155 (2021); TAS 110 (2000)
PRI Construction Materials Technologies (TST5878)	PRS-029-02-01	ASTM D 6222 [2016(2023)]; ASTM G 155 (2021); TAS 110 (2000)
PRI Construction Materials Technologies (TST5878)	PRS-030-02-01	ASTM D 6223 (2016); ASTM G 155 (2021); TAS 110 (2000)
PRI Construction Materials Technologies (TST5878)	PRS-033-02-01	ASTM D 6223 (2021); ASTM G 155 (2021); TAS 110 (2000)
PRI Construction Materials Technologies (TST5878)	PRS-035-02-01	FM 4474 (B) (2020); TAS 114 (D) (2011)

<u>Entity</u>	<u>Report No.</u>	<u>Standards (Year)</u>
PRI Construction Materials Technologies (TST5878)	PRS-036-02-01A	FM 4474 (B) (2020); TAS 114 (D) (2011)
PRI Construction Materials Technologies (TST5878)	PRS-036-02-01B	FM 4474 (B) (2020); TAS 114 (D) (2011)
PRI Construction Materials Technologies (TST5878)	PRS-037-02-01	FM 4474 (D) (2020); TAS 114 (J) (2011)
PRI Construction Materials Technologies (TST5878)	PRS-037-02-01A	FM 4474 (D) (2020); TAS 114 (J) (2011)
PRI Construction Materials Technologies (TST5878)	PRS-049-02-03	ASTM D 6223 (2021)
PRI Construction Materials Technologies (TST5878)	PRS-049-02-03A	TAS 110 (2000); ASTM G 155 (2021)
PRI Construction Materials Technologies (TST5878)	PRS-052-02-01	FM 4474 (D) (2020); TAS 114 (J) (2011)
PRI Construction Materials Technologies (TST5878)	PRS-052-02-01A	UL 1897 (2015)
PRI Construction Materials Technologies (TST5878)	PRS-053-02-01	FM 4474 (B) (2020); TAS 114 (D) (2011)
PRI Construction Materials Technologies (TST5878)	PRS-055-02-01	FM 4474 (B) (2020); TAS 114 (D) (2011)
PRI Construction Materials Technologies (TST5878)	PRS-062-02-01	FM 4474 (D) (2020); TAS 114 (J) (2011)
PRI Construction Materials Technologies (TST5878)	PRS-063-02-01	FM 4474 (B) (2020); TAS 114 (D) (2011)
PRI Construction Materials Technologies (TST5878)	PRS-064-02-01	FM 4474 (B) (2020); TAS 114 (D) (2011)
PRI Construction Materials Technologies (TST5878)	PRS-064-02-02	ASTM D 903 (2010)
PRI Construction Materials Technologies (TST5878)	PRS-066-02-01	ASTM D 6222 [2016(2023)]
PRI Construction Materials Technologies (TST5878)	PRS-067-02-01	FM 4470 (2022)
PRI Construction Materials Technologies (TST5878)	PRS-068-02-01	FM 4474 (D) (2020); TAS 114 (J) (2011)
PRI Construction Materials Technologies (TST5878)	PRS-076-02-01	FM 4474 (D) (2020); TAS 114 (J) (2011)
PRI Construction Materials Technologies (TST5878)	PRS-076-02-02A	TAS 114 (D) (2011)
PRI Construction Materials Technologies (TST5878)	PRS-077-02-01	FM 4474 (D) (2020); TAS 114 (J) (2011)
PRI Construction Materials Technologies (TST5878)	691T0001	ASTM D 6222/D 6222 M [2016(2023)]; TAS 110 (2000)
PRI Construction Materials Technologies (TST5878)	691T0002	ASTM D 6223 (2021); TAS 110 (2000)
PRI Construction Materials Technologies (TST5878)	691T0003	ASTM D 6223 (2021); TAS 110 (2000)
PRI Construction Materials Technologies (TST5878)	691T0004	ASTM D 903 (2010)
PRI Construction Materials Technologies (TST5878)	691T0008	FM 4474 (B) (2020)
PRI Construction Materials Technologies (TST5878)	691T0010	ASTM D 903 (2010)
PRI Construction Materials Technologies (TST5878)	691T0011	FM 4474 (B) (2020); TAS 114 (D) (2011)
PRI Construction Materials Technologies (TST5878)	691T0012	FM 4474 (B) (2020); TAS 114 (D) (2011)
PRI Construction Materials Technologies (TST5878)	691T0013	TAS 114 (D) (2011)
PRI Construction Materials Technologies (TST5878)	691T0014	FM 4474 (D) (2020); TAS 114 (J) (2011); UL 1897 (2015)
PRI Construction Materials Technologies (TST5878)	691T0015	FM 4474 (B) (2020)
PRI Construction Materials Technologies (TST5878)	691T0018	ASTM D 6222 [2016(2023)]; TAS 110 (2000)
PRI Construction Materials Technologies (TST5878)	691T0019	ASTM D 6223 (2021); TAS 110 (2000)
PRI Construction Materials Technologies (TST5878)	691T0021	N/A
PRI Construction Materials Technologies (TST5878)	691T0022	FM 4474 (B) (2020); TAS 114 (D) (2011)
PRI Construction Materials Technologies (TST5878)	691T0024	FM 4474 (B) (2020); TAS 114 (D) (2011)
Trinity ERD (TST6049)	P20080.07.11-1	ASTM D 6509 [2016(2023)]
Trinity ERD (TST6049)	P20080.07.11-2	ASTM D 6509 [2016(2023)]
Trinity ERD (TST6049)	P20080.09.10-1-R1	ASTM D 6509 [2016(2023)]
Trinity ERD (TST6049)	P20080.09.10-2	ASTM D 6223 (2021), ASTM G 155 (2021)
Trinity ERD (TST6049)	P20080.09.10-6	ASTM D 6223 (2021), ASTM G 155 (2021)
Trinity ERD (TST6049)	P20080.09.10-7	ASTM D 6223 (2021), ASTM G 155 (2021)
Trinity ERD (TST6049)	S39970.07.12-1B-R1	ASTM D 6163 (2021)
Trinity ERD (TST6049)	S43400.08.14-4-R1	ASTM D 6163 (2021)
Trinity ERD (TST6049)	S43400.08.14-6	ASTM D 6164 (2021)
Trinity ERD (TST6049)	S35860.05.12-2-R3	ASTM D 6164 (2021)
Trinity ERD (TST6049)	S45520.11.13-R2	Physical Properties
Trinity ERD (TST6049)	SC5460.08.14	FM 4474 (2020); TAS 114 (D) (2011)

¹Determined to be equivalent to FM 4450 (1992)

LIMITATIONS

1. Fire classification is not within the scope of this evaluation.
2. The roof deck 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.
3. Foam plastic insulation shall be installed in accordance with the FBC Section 2603.4 and 2603.6.
4. In the HVHZ, fastener spacing for insulation attachment is determined using a Minimum Characteristic Force (F') of 275 lbf as demonstrated via testing to TAS 105. If the field tested fastener value is below 275 lbf, then insulation attachment shall not be acceptable.
5. In the HVHZ, fastener spacing for base sheets or membrane attachment shall meet the minimum fastener resistance value and the *MDP* for the specified roof system. It is permissible for a qualified professional to submit a revised fastener spacing utilizing the withdrawal resistance value obtained from TAS 105 testing and calculations performed in accordance with RAS 117 and/or RAS 137, when the fastener resistance is found less than required.
6. In the HVHZ, if mechanical attachment through the lightweight insulating concrete to the structural deck is proposed, a field fastener withdrawal test shall be conducted in compliance with TAS 105 to determine equivalent or increased attachment densities. Revised fastener densities shall be submitted utilizing the withdrawal resistance value obtained from TAS 105 testing and calculations performed in accordance with RAS 117 and/or RAS 137.
7. For assemblies containing mechanical attachment, the allowable uplift pressure for the selected roof system shall meet or exceed the minimum design loads as determined in accordance with the FBC Chapter 16. For perimeter and corner roof zones 2 and 3, the attachment density may be increased by a qualified design professional, as necessary, to meet the design pressure requirements in these areas. In the HVHZ, calculations shall be conducted in compliance with RAS 117 and/or RAS 137. Outside the HVHZ, commonly used standards include RAS 117, FM LPDS 1-29, or ANSI/SPRI WD-1.
8. Reroofing applications shall be examined in accordance with FBC Section 1511 outside of the HVHZ and FBC Section 1521 within the HVHZ. For mechanically fastened systems, a field withdrawal resistance test (TAS 105 in the HVHZ; ANSI/SPRI FX-1 or TAS 105 in the non-HVHZ) 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 (TAS 124 in the HVHZ; ASTM E 907, FM LPDS 1-52, ANSI/SPRI IA-1, or TAS 124 in the non-HVHZ) shall be conducted to confirm conformance of the existing to the minimum design loads.
9. For assemblies containing fully adhered or ribbon adhered attachment, or where extrapolation of the roof system is not permitted, the *MDP* for the selected roof system shall meet or exceed the minimum design loads as determined in accordance with the FBC Chapter 16 without augmentation.
10. 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.
11. The minimum roof slope shall be 1/4:12 for new construction.
12. FBC Section 1504.3.1.1 is not within the scope of this evaluation.
13. Materials shall conform to FBC Section 1711 as well as FBC Section 1506 outside of the HVHZ and FBC Section 1517 within the HVHZ.
14. All products listed in this report shall be manufactured under a quality assurance program in compliance with Rule 61G20-3.

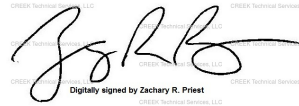
COMPLIANCE STATEMENT

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



This item has been
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sealed by Zachary R.
Priest, PE, on 10/6/2026.

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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 (4 pages)
- 2) APPENDIX B – Nomenclature and Approved Assemblies (23 pages)



INSTALLATION

Note - Refer to the [APPROVED ASSEMBLIES](#) section of this report within Appendix B for specific installation details of a selected roof system.

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

Component	Product	Installation Detail
Fastening Systems	SFS Dekfast 12	#12 fastener; Min. 3/4-inch penetration through the top rib of the steel deck or wood deck
	SFS Dekfast Galvalume Steel Hex	2 7/8-inch x 3/4-inch hex plate
	OMG 3 in. Round Metal Plate	3-inch round galvalume plate
	OMG #12 Standard Roofgrip	#12 fastener; Min. 3/4-inch penetration through the top rib of the steel deck or wood deck
	OMG AccuTrac Flat Bottom	3-inch square aluminized steel plate
	OMG Heavy Duty	#14 fastener; Min. 3/4-inch penetration through the top rib of the steel deck or wood deck; Min. 1-inch penetration into concrete deck
	OMG OlyLok	Min. 1.8-inch shank; Base sheet fastener with integrated 2.7-inch diameter plate; Min. 1-inch embedment in to deck
	OMG XHD	#15; Min. 3/4-inch penetration through the top rib of the steel deck or wood deck
	Perlok #12	#12 fasteners; Min. 3/4-inch penetration through the top rib of the steel deck or wood deck; May substitute Trufast #12 DP fastener
	Perlok CR Base Sheet Fastener	Base sheet fastener for Lightweight Concrete and Gypsum decks; Full embedment of shank
	Perlok HD	#14 fasteners; Min. 3/4-inch penetration through the top rib of the steel deck or wood deck; May substitute Trufast #14 HD Fastener
	Perlok Steel Plate	3-inch round galvalume plate with reinforcing ribs; May substitute Trufast 3" Metal Insulation Plate
	Perlok-O #12 screw	#12 fasteners; Min. 3/4-inch penetration through the top rib of the steel deck or wood deck; May substitute OMG #12 Standard Roofgrip
	Perlok-O #14 screw	#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; May substitute OMG Heavy Duty
	Perlok-O Plate	3-inch round galvalume plate; May substitute OMG 3 in. Round Metal Plate
	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
	Trufast #15 EHD Fastener	#15 fasteners; Min. 3/4-inch penetration through the top rib of the steel deck or wood deck
	Trufast 2" Barbed Metal Plate	2-inch round galvalume plate
	Trufast 2.4" Barbed Metal Plate	2.4-inch round galvalume plate
	Trufast 3" Metal Insulation Plate	3-inch round galvalume plate with reinforcing ribs
Insulation Adhesives	Trufast FM-75 Base Sheet Fastener	2.7-inch dia., rib reinforced cap x 1.2-inch long polymer coated steel fastener with rectangular dual gripping legs; Full embedment of shank
	Trufast FM-90 Base Sheet Fastener	2.7-inch dia., rib reinforced cap x 1.7-inch long polymer coated steel fastener with rectangular dual gripping legs; Full embedment of shank
	Trufast Twin-Loc Nails	Min. 1.8-inch shank; Base sheet fastener with integrated 2.7-inch diameter plate.
	Derbibond LR Foamable Adhesive	Ribbon adhered in 3/4 to 1-inch wide beads
	SOPREMA DUOTACK® 365	Ribbon adhered in 1/2 to 3/4-inch wide beads
	SOPREMA DUOTACK® SPF	Ribbon adhered in 2 1/2-inch wide beads

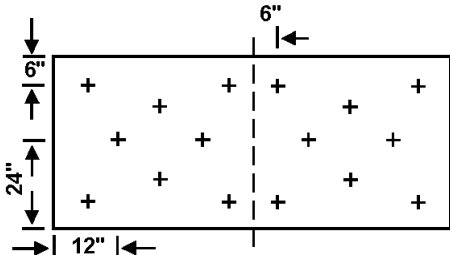
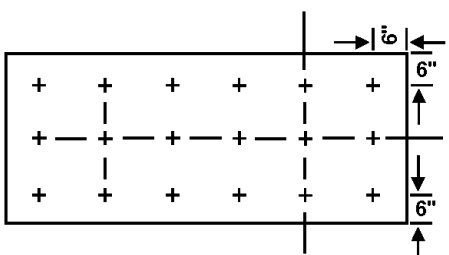
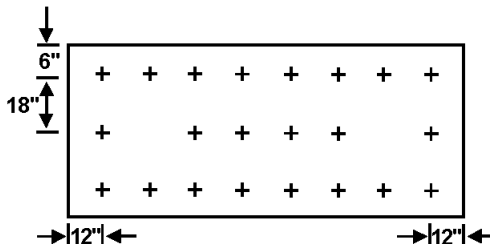
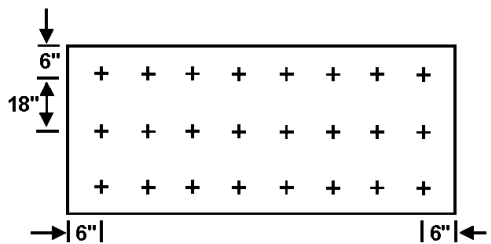
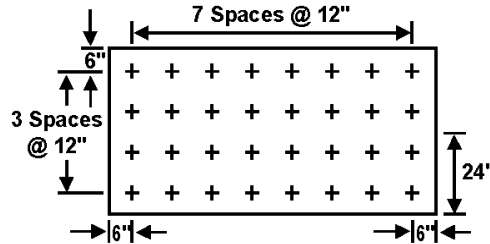


Component	Product	Installation Detail
Insulation Adhesives (Cont'd)	OlyBond 500	Ribbon adhered in 3/4 to 1-inch wide beads
	ASTM D 312, Type IV Asphalt	Fully adhered within the EVT range at a rate of 20-25 lbs/100 ft ²
Membrane Adhesives	SOPREMA COLPLY EF	Ribbon adhered in 1/2 to 3/4-inch wide beads
	SOPREMA DUOTACK® SPF	Adhered in spatter at a rate of 2.9lb/100ft ²
	Permastic	Fully adhered at a rate of 1.5-2.0 gal/100 ft ²
	ASTM D 312, Type IV Asphalt	Fully adhered within the EVT range at a rate of 20-25 lbs/100 ft ²
Insulation/Cover Boards	Atlas Roofing ACFoam HS	Min. 1/2-inch thick; Adhered boards shall be a maximum 4 ft x 4 ft
	Atlas Roofing ACFoam II	Min. 1/2-inch thick; min. 20 psi polyisocyanrate board with glass reinforced organic facers; Adhered boards shall be a maximum 4 ft x 4 ft
	Hunter H-Shield	
	Atlas Roofing ACFoam III	Min. 1/2-inch thick; min. 20 psi polyisocyanrate board with coated glass facers; Adhered boards shall be a maximum 4 ft x 4 ft
	Hunter H-Shield CG	
	Derbiboard	Min. 1/2-inch thick; min. 20 psi polyisocyanrate board with glass reinforced organic facers; Adhered boards shall be a maximum 4 ft x 4 ft
	Derbiboard h	
	Derbiboard CA	Min. 1/2-inch thick; min. 20 psi polyisocyanrate board with coated glass facers; Adhered boards shall be a maximum 4 ft x 4 ft
	SOPREMA SOPRABOARD	Min. 1/8-inch thick; Adhered boards shall be a maximum 4 ft x 4 ft
	Blue Ridge Fiberboard Celotex Structodek High-Density Roofing Board	Min. 1/2-inch thick
	Johns Manville Fesco Board	Min. 3/4-inch thick
	Johns Manville 1/2" Retro-Fit Board	Min. 1/2-inch thick
	Johns Manville DuraBoard	
	Georgia-Pacific DensDeck	
	Georgia-Pacific DensDeck Prime	
	National Gypsum DEXcell FA Glass Mat Roof Board	Min. 1/4-inch thick
	SECUROCK Gypsum-Fiber Roof Board	
	National Gypsum DEXcell Cement Roof Board	Min. 7/16-inch thick; Adhered boards shall be a maximum 4 ft x 4 ft
	Wood Fiberboard	Shall comply with ASTM C 208, Type II; Min. 1/2-inch thick; Adhered boards shall be a maximum 4 ft x 4 ft
Base/Ply Sheets	Bitutak Cold	Min. 3 -inch wide side laps; Min. 6-inch wide end laps
	Bitutak MB	
	Bitutak MB Mineral	
	Derbibase	
	Derbibase SA	
	Derbibase SA Ultra	
	Derbibase Ultra	
	Derbicolor GP	
	Derbicolor GP-FR	
	Derbicolor XPS	
	Derbicolor XPS-FR	
	Derbigum GP	
	Derbigum GP-FR	
	Derbigum P	
	Derbigum XPS	
	Derbigum XPS-FR	
	GAFFLAS #75 Base Sheet	
	PRS Glass Base	



Component	Product	Installation Detail
Base/Ply Sheets (Cont'd)	PRS Glass Ply IV	Min. 3 -inch wide side laps; Min. 6-inch wide end laps
	PRS Glass Ply VI	
	PRS Modified Base	
	Resisto Bitutak Cold	
	Resisto Bitutak MB	
	Resisto Bitutak MB Mineral	
Cap Sheets	Bitutak Cold Mineral	Min. 3-inch wide side laps; Min. 6-inch wide end laps
	Bitutak MB	
	Bitutak MB Mineral	
	Derbicolor GP	
	Derbicolor GP-FR	
	Derbicolor P	
	Derbicolor P-FR	
	Derbicolor XPS	
	Derbicolor XPS-FR	
	Derbigum GP	
	Derbigum GP-FR	
	Derbigum P	
	Derbigum XPS	
	Derbigum XPS-FR	
	Resisto Bitutak MB	
	Resisto Bitutak MB Mineral	
Vapor Barriers	Bitutak MB Mineral	Min. 3-inch wide side laps; Min. 6-inch wide end laps
	Derbicolor P	
	Derbibase	
	Derbibase Ultra	
	Derbibase SA	Min. 3-inch wide side laps; Min. 6-inch wide end laps; Deck shall be primed with Debribase SA Primer
	Derbibase SA Ultra	
	Derbistick SA	
Cellular Lightweight Concrete	Min. 300 psi Celcore MF	Slurry coat min. 1/8-inch thick; Min. 1-inch thick to max. 12-inch thick EPS board (1 lbs/ft ³); Min. 2-inch thick top coat; Celcore PVA curing compound applied at rate of 300 ft ² /gal
	Min. 300 psi Celcore MF with HS Rheology Modifying Admixture	
	Min. 300 psi Concrecel	For steel deck construction only, Concrecel Bonding Agent is applied to deck at a rate of 600ft ² /gal and allowed to dry. For concrete deck construction only, Concrecel lightweight concrete may be optionally applied over an asphaltic vapor barrier or existing built-up roofing. Concrecel lightweight concrete shall consist of the following: Min. 1/4-inch thick, min. 43 lb/ft ³ wet cast density slurry coat (optional for concrete decks); Min. 1-inch thick to max. 12-inch thick EPS board (1 lbs/ft ³ ; optional for concrete decks); Min. 2 1/4-inch thick, min. 43 lb/ft ³ wet cast density top coat; Concrecel curing compound applied after top coat sets at a nominal rate of 600 ft ² /gal.
	Min. 300 psi Mearlcrete	Slurry coat min. 1/4-inch thick; Min. 1-inch thick EPS board (1 lbs/ft ³); Min. 2-inch top coat
	Min. 300 psi Elastizell	
	Min. 300 psi Concrecel	
	Min. 200 psi Cellular Lightweight Concrete	
	NVS Lightweight Concrete	NVS Concrete, aggregate, Portland Cement and water; Slurry coat min. 1/4-inch thick; Min. 1-inch thick EPS board (1 lbs/ft ³); Min. 1-inch top coat



Insulation/Cover Board Fastening Patterns	
 16 per 4-ft x 8-ft board (Max. 2.0-ft² contributory area per fastener)	 18 per 4-ft x 8-ft board (Max. 1.78-ft² contributory area per fastener)
 22 per 4-ft x 8-ft board (Max. 1.45-ft² contributory area per fastener)	 24 per 4-ft x 8-ft board (Max. 1.33-ft² contributory area per fastener)
 32 per 4-ft x 8-ft board (Max. 1.0-ft² contributory area per fastener)	

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 roof system. Installation requirements shall be as noted in the [APPROVED ASSEMBLIES](#) and [INSTALLATION](#) section of this report.

Name	Definition
#14 Perlok-O Fasteners & Plates	Perlok-O #14 screw and Perlok-O plate
As Tested	Information provided to the report user based on the as tested condition of the roof system
Basesheet	One ply of Derbibase, Derbibase Ultra, Derbibase HV or Derbigum GP
Basesheet 2	One ply of Derbibase, PRS Modified Base Sheet, PRS Glass Ply IV or PRS Glass Ply VI
Cover Board	One layer of any of the following products: -Georgia-Pacific DensDeck -Georgia-Pacific DensDeck Prime -USG SECUROCK Gypsum-Fiber Roof Board
Deck Detail	As Tested deck construction details are described as follows:
	Concrete Deck Designed by others in accordance with FBC requirements; Min. $f'_c = 2,500$ psi at 28 days;
	CWF Deck Min. 2.5-inch thick Tectum I cementitious wood fiber panels
	Steel Deck Designed by others in accordance with FBC requirements; Min. 22 ga, ($F_y = 40$ ksi) Wide Rib Deck (Type WR) conforming to ANSI/SDI-RD1.0 & FBC; 0.5% Vented for LWIC applications only. The following nomenclature is used to further describe the As Tested condition.
	F<#> <#> #12-24 HWH self-drilling screws or equivalent fastener at each flute used to secure the deck to the structural supports; Min. 1/4-inch penetration
	G<#> Min. Grade <#> of Steel Deck
	L<#> Max. span of <#> ft
	P Min. 5/8-inch diameter puddle welds at each flute used to secure the deck to the structural supports
	PW Welded at each flute with 1/2-inch weld washer to the structural supports
	S<#> 1/4"-14 HWH x7/8" self-drilling screws or equivalent fastener secured <#>-inch o.c. along the panel side laps
	W 3/4-inch O.D. flat washer used with indicated fastener

Name	Definition
<i>Deck Detail (Cont'd)</i>	Wood Deck Designed by other is in accordance with FBC requirements: Non-HVHZ: Min. 15/32-inch thick 32/16 span rated, CDX plywood for new construction at max. 24-inch span; HVHZ: Min. 19/32-inch thick 40/20 span rated, CDX plywood wood plank with supports at max. 24-inch span. The following nomenclature is used to further describe the <i>As Tested</i> condition.
	T<#> Min. <#>-inch thickness of the plywood
	L<#> Max. span of <#> inches
	N<#> Min. SPAX 8 x 1-1/2 fasteners secured 4-inches o.c. along the four panel edges and <#>-inches o.c. along the intermediate supports
<i>DensDeck</i>	Min. 1/4-inch Georgia-Pacific DensDeck
<i>DensDeck Prime</i>	Min. 1/4-inch Georgia-Pacific DensDeck Prime
<i>Derbiboard</i>	Derbiboard or Derbiboard CA
<i>Derbibond LR</i>	Derbibond LR Foamable Adhesive
<i>DEXcell CB</i>	Min. 7/16-inch National Gypsum DEXcell Cement Roof Board
<i>DEXcell FA</i>	Min. 1/4-inch National Gypsum DEXcell FA Glass Mat Roof Board
<i>DUOTACK</i>	SOPREMA DUOTACK® 365 or SOPREMA DUOTACK® SPF
<i>DUO SPF Spatter</i>	SOPREMA DUOTACK® SPF applied in spatter at a rate of 2.9lb/100ft ²
<i>Fesco</i>	Johns Manville Fesco Board
<i>HA PRS Glass Ply</i>	Two or more plies of PRS Glass Ply IV or PRS Glass Ply VI fully bonded in ASTM D 312, Type IV hot asphalt
<i>Insulation</i>	One or more layers or combinations of roofing insulation listed in this report or <i>approved</i> under rule 61G20-3, such as gypsum, perlite, polyisocyanurate, polystyrene, or wood fiberboard. Insulation shall be preliminarily secured unless otherwise noted.
<i>ISO</i>	ACFoam-II, ACFoam-III, Derbiboard, Derbiboard CA, Derbiboard h, H-Shield, or H-Shield CG
<i>LWIC</i>	Poured-in-place Cellular Lightweight Concrete with encapsulated insulation board
<i>MCRF</i>	Minimum Characteristic Resistance Force as determined by TAS 105 for the named fastener in the selected roof system
<i>MDP</i>	Maximum Design Pressure
<i>P APP Base</i>	One ply of Derbibase, Derbibase Ultra, Bitutak Cold, Resisto Bitutak Cold, Derbigum GP, Derbigum P or Derbigum XPS fully adhered with Permastic applied at a rate of 1.5-2 gal/100-ft ²
<i>P APP Cap</i>	One ply of Derbigum GP, Derbigum GP FR, Derbigum XPS, Derbigum XPS FR, Derbicolor GP, Derbicolor GP FR, Derbicolor GP FR CR, Derbicolor P FR, Derbicolor P FR CR, Derbicolor XPS, Derbicolor XPS FR or Derbicolor XPS FR CR fully adhered with Permastic applied at a rate of 1.5-2 gal/100-ft ²
<i>P APP Cap 2</i>	One ply of Derbigum GP, Derbigum GP FR, Derbigum XPS, Derbigum XPS FR, Derbicolor GP, Derbicolor GP FR, Derbicolor GP FR CR, Derbicolor XPS, Derbicolor XPS FR or Derbicolor XPS FR CR fully adhered with Permastic applied at a rate of 1.5-2 gal/100-ft ²
<i>P APP Cap 3</i>	One ply of Bitutak Cold Mineral, Derbigum GP, Derbigum GP FR, Derbigum XPS, Derbigum XPS FR, Derbicolor GP, Derbicolor GP FR, Derbicolor GP FR CR, Derbicolor P FR, Derbicolor P FR CR, Derbicolor XPS, Derbicolor XPS FR or Derbicolor XPS FR CR fully adhered with Permastic applied at a rate of 1.5-2 gal/100-ft ²
<i>P APP Ply</i>	One or more plies of Derbibase, Derbibase Ultra, Derbibase HV, Derbigum GP, Derbigum GP FR, Derbigum XPS, or Derbigum XPS FR fully adhered with Permastic applied at a rate of 1.5-2 gal/100-ft ²
<i>Perlok Fasteners & Plates</i>	Perlok-O #12 screws and Perlok-O Plate or Perlok #12 fastener and Perlok Steel Plate
<i>Perlok-O Fasteners & Plates</i>	Perlok-O #12 screws and Perlok-O Plate

Name	Definition																																																																																																						
<i>Perlok-O #14 Fasteners & Plates</i>	Perlok-O #14 screws and Perlok-O Plate																																																																																																						
<i>Preliminarily Secured</i>	Fastened at minimum rate of one (1) fastener per 5.33-ft ²																																																																																																						
<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 outside of the HVHZ and FBC Section 1521 within the HVHZ. For mechanically fastened roof assemblies, the existing roof insulation thickness may be contributory in meeting the minimum insulation thickness requirements for a given roof system.																																																																																																						
<i>Retro-Fit</i>	Johns Manville 1/2-inch Retro-Fit Board																																																																																																						
<i>SECUROCK</i>	Min. 1/4-inch USG SECUROCK Gypsum-Fiber Roof Board																																																																																																						
<i>Structodek</i>	Blue Ridge Fiberboard Celotex Structodek High-Density Roofing Board																																																																																																						
<i>TA APP Base</i>	One ply of Deribase, Deribase Ultra, Bitutak Cold, Bitutak MB, Resisto Bitutak MB, Derbigum GP, Derbigum P, or Derbigum XPS fully adhered by torch																																																																																																						
<i>TA APP Base 2</i>	One ply of Deribase, Deribase Ultra, Bitutak Cold, Bitutak MB, Resisto Bitutak MB or Derbigum P fully adhered by torch																																																																																																						
<i>TA APP Cap</i>	One ply of Derbigum GP, Derbigum GP FR, Derbigum XPS, Derbigum XPS FR, Derbicolor GP, Derbicolor GP FR, Derbicolor GP FR CR, Derbicolor P FR, Derbicolor P FR CR, Derbicolor XPS, Derbicolor XPS FR or Derbicolor XPS FR CR fully adhered by torch																																																																																																						
<i>TA APP Cap 2</i>	One ply of Derbigum GP, Derbigum GP FR, Derbigum XPS, Derbigum XPS FR, Derbicolor GP, Derbicolor GP FR, Derbicolor GP FR CR, Derbicolor XPS, Derbicolor XPS FR or Derbicolor XPS FR CR fully adhered by torch																																																																																																						
<i>TA APP Cap 3</i>	One ply of Derbigum GP, Derbigum GP FR, Derbigum XPS, Derbicolor GP, Derbicolor GP FR, Derbicolor GP FR CR, Derbicolor P, Derbicolor P FR, Derbicolor P FR CR, Derbicolor XPS, Derbicolor XPS FR, Derbicolor XPS FR CR, Bitutak Cold Mineral, Bitutak MB Mineral or Resisto Bitutak MB Mineral fully adhered by torch																																																																																																						
<i>TA APP Ply</i>	One or more plies of Deribase, Deribase Ultra, Derbigum GP, Derbigum GP FR, Derbigum XPS, or Derbigum XPS FR fully adhered by torch																																																																																																						
<i>Trufast #15 Fasteners & Plates</i>	Trufast #15 EHD Fastener and Trufast 3" Metal Insulation Plate																																																																																																						
<i>Vapor Barrier</i>	One of the following options may be utilized as allowed by the <i>Approved Assembly</i> . 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.																																																																																																						
	<table><tr><th>Deck</th><th>Primer</th><th>Vapor Barriers</th><th>VB Application</th><th>Insulation Adhesive</th><th>MDP (psf)</th></tr><tr><td><i>Concrete Deck</i></td><td>Deribase SA Primer</td><td>Derbistick SA</td><td>Self-Adhered</td><td>Duotack 12" o.c.</td><td>-240</td></tr><tr><td><i>Concrete Deck</i></td><td>Deribase SA Primer</td><td>Deribase SA or Deribase SA Ultra</td><td>Self-Adhered</td><td>Duotack 12" o.c.</td><td>-315</td></tr><tr><td><i>Concrete Deck</i></td><td>None</td><td>Deribase or Deribase Ultra</td><td>Permastic, COLPLY EF 6" o.c or Torch</td><td>Duotack 365 12" o.c.</td><td>-60</td></tr><tr><td><i>Concrete Deck</i></td><td>None</td><td>Derbicolor P</td><td>Permastic or Torch</td><td>Duotack 365 12" o.c.</td><td>-67.5</td></tr><tr><td><i>Concrete Deck</i></td><td>Deribase SA Primer</td><td>Derbistick SA</td><td>Self-Adhered</td><td>Duotack 365 12" o.c.</td><td>-240</td></tr><tr><td><i>Concrete Deck</i></td><td>Deribase SA Primer</td><td>Deribase SA or Deribase SA Ultra</td><td>Self-Adhered</td><td>Duotack 365 12" o.c.</td><td>-315</td></tr><tr><td><i>Concrete Deck</i></td><td>None</td><td>Deribase or Deribase Ultra</td><td>Permastic or COLPLY EF 6" o.c</td><td>Duotack SPF 12" o.c.</td><td>-60</td></tr><tr><td><i>Concrete Deck</i></td><td>None</td><td>Deribase or Deribase Ultra</td><td>Torch</td><td>Duotack SPF 12" o.c.</td><td>-82.5</td></tr><tr><td><i>Concrete Deck</i></td><td>None</td><td>Derbicolor P</td><td>Permastic or Torch</td><td>Duotack SPF 12" o.c.</td><td>-105</td></tr><tr><td><i>Concrete Deck</i></td><td>None</td><td>Deribase</td><td>COLPLY EF 6" o.c.</td><td>Duotack SPF 12" o.c.</td><td>-172.5</td></tr><tr><td><i>Concrete Deck</i></td><td>None</td><td>Deribase or Deribase Ultra</td><td>Permastic or COLPLY EF 6" o.c</td><td>OlyBond 500 12" o.c.</td><td>-60</td></tr><tr><td><i>Concrete Deck</i></td><td>OPTIONAL ASTM D 41</td><td>Deribase Ultra</td><td>Torch</td><td>OlyBond 500 12" o.c.</td><td>-67.5</td></tr><tr><td><i>Concrete Deck</i></td><td>ASTM D 41</td><td>Derbigum GP</td><td>Torch</td><td>OlyBond 500 12" o.c.</td><td>-67.5</td></tr><tr><td><i>Concrete Deck</i></td><td>OPTIONAL ASTM D 41</td><td>Deribase</td><td>Torch</td><td>OlyBond 500 12" o.c.</td><td>-77.5</td></tr><tr><td><i>Concrete Deck</i></td><td>ASTM D 41</td><td>Deribase</td><td>COLPLY EF 6" o.c</td><td>OlyBond 500 12" o.c.</td><td>-77.5</td></tr><tr><td><i>Concrete Deck</i></td><td>ASTM D 41</td><td>Bitutak MB Mineral</td><td>Torch</td><td>OlyBond 500 12" o.c.</td><td>-180</td></tr></table>	Deck	Primer	Vapor Barriers	VB Application	Insulation Adhesive	MDP (psf)	<i>Concrete Deck</i>	Deribase SA Primer	Derbistick SA	Self-Adhered	Duotack 12" o.c.	-240	<i>Concrete Deck</i>	Deribase SA Primer	Deribase SA or Deribase SA Ultra	Self-Adhered	Duotack 12" o.c.	-315	<i>Concrete Deck</i>	None	Deribase or Deribase Ultra	Permastic, COLPLY EF 6" o.c or Torch	Duotack 365 12" o.c.	-60	<i>Concrete Deck</i>	None	Derbicolor P	Permastic or Torch	Duotack 365 12" o.c.	-67.5	<i>Concrete Deck</i>	Deribase SA Primer	Derbistick SA	Self-Adhered	Duotack 365 12" o.c.	-240	<i>Concrete Deck</i>	Deribase SA Primer	Deribase SA or Deribase SA Ultra	Self-Adhered	Duotack 365 12" o.c.	-315	<i>Concrete Deck</i>	None	Deribase or Deribase Ultra	Permastic or COLPLY EF 6" o.c	Duotack SPF 12" o.c.	-60	<i>Concrete Deck</i>	None	Deribase or Deribase Ultra	Torch	Duotack SPF 12" o.c.	-82.5	<i>Concrete Deck</i>	None	Derbicolor P	Permastic or Torch	Duotack SPF 12" o.c.	-105	<i>Concrete Deck</i>	None	Deribase	COLPLY EF 6" o.c.	Duotack SPF 12" o.c.	-172.5	<i>Concrete Deck</i>	None	Deribase or Deribase Ultra	Permastic or COLPLY EF 6" o.c	OlyBond 500 12" o.c.	-60	<i>Concrete Deck</i>	OPTIONAL ASTM D 41	Deribase Ultra	Torch	OlyBond 500 12" o.c.	-67.5	<i>Concrete Deck</i>	ASTM D 41	Derbigum GP	Torch	OlyBond 500 12" o.c.	-67.5	<i>Concrete Deck</i>	OPTIONAL ASTM D 41	Deribase	Torch	OlyBond 500 12" o.c.	-77.5	<i>Concrete Deck</i>	ASTM D 41	Deribase	COLPLY EF 6" o.c	OlyBond 500 12" o.c.	-77.5	<i>Concrete Deck</i>	ASTM D 41	Bitutak MB Mineral	Torch	OlyBond 500 12" o.c.	-180
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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.

Name	Definition					
<i>Vapor Barrier – Cont'd</i>	Deck	Primer	Vapor Barriers	VB Application	Insulation Adhesive	MDP (psf)
	<i>Concrete Deck</i>	None	PRS Glass Ply IV or PRS Glass Ply VI	ASTM 312, Type IV	OlyBond 500 12" o.c.	-210

APPROVED ASSEMBLIES

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

1. MDPs were calculated using a 2:1 margin of safety per FBC Section 1504.9 and 1523.4.
2. Refer to [LIMITATIONS](#) and [NOMENCLATURE](#) sections of this evaluation when using the table(s) below.
3. Refer to [INSTALLATION](#) section of this report for installation detail when the information is not explicitly stated for the selected roof system.
4. The on-center (o.c.) spacing given is the maximum allowable attachment spacing for the rated system.
5. As Tested information for roof deck construction is provided for information only. The addition of the As Tested deck information does not obviate the requirement for rational design of the roof deck and roof deck attachment in accordance with FBC requirements.

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

Assemblies with All Layers Adhered over <i>Concrete Deck</i> (New or Existing)									
System No.	Vapor Barrier	Base Insulation	Base Attachment	Top Insulation	Top Attachment	Base Ply	Ply Sheet	Cap Sheet	MDP (psf)
C-A-1	-	-	-	-	-	-	-	TA APP Cap 3	-45 (Lim. 9)
C-A-2	OPTIONAL Vapor Barrier	Min. 1.5-inch ISO	OlyBond 500 applied in ribbons 12-inches o.c.	DensDeck Prime, DEXcell FA or SECUROCK	OlyBond 500 applied in ribbons 12-inches o.c.	Basesheet fully adhered in Permastic or torch adhered	OPTIONAL P APP Ply or TA APP Ply	P APP Cap or TA APP Cap 3	-67.5 (Lim. 9)



Assemblies with All Layers Adhered over Concrete Deck (New or Existing)									
System No.	Vapor Barrier	Base Insulation	Base Attachment	Top Insulation	Top Attachment	Base Ply	Ply Sheet	Cap Sheet	MDP (psf)
C-A-3	OPTIONAL Vapor Barrier	Min. 1.5-inch Derbiboard	DUOTACK applied in ribbons 12-inches o.c.	DensDeck Prime, DEXcell FA or SECUROCK	DUOTACK applied in ribbons 12-inches o.c.	Basesheet fully adhered in Permastic or torch adhered	OPTIONAL P APP Ply or TA APP Ply	P APP Cap or TA APP Cap 3	-67.5 (Lim. 9)
C-A-4	-	Min. 1.5-inch Derbiboard	Derbiboard LR applied in ribbons spaced 12-inches o.c.	-	-	Basesheet fully adhered in Permastic	OPTIONAL P APP Ply or TA APP Ply	P APP Cap, or TA APP Cap 3	-67.5 (Lim. 9)
C-A-5	OPTIONAL Vapor Barrier	Min. 1-inch ISO	OlyBond 500 applied in ribbons 12-inches o.c.	SECUROCK, DEXcell FA, DensDeck Prime or Min. 1/2-inch DuraBoard	OlyBond 500 applied in ribbons 12-inches o.c.	TA APP Base	OPTIONAL TA APP Base	TA APP Cap 3	-77.5 (Lim. 9)
C-A-6	OPTIONAL Vapor Barrier	Min. 1.5-inch Derbiboard	DUOTACK applied in ribbons 12-inches o.c.	DensDeck Prime, DEXcell FA or SECUROCK	DUOTACK applied in ribbons 12-inches o.c.	TA APP Base	OPTIONAL TA APP Base	TA APP Cap 3	-77.5 (Lim. 9)
C-A-7	OPTIONAL Vapor Barrier	Min. 1-inch ISO	OlyBond 500 applied in ribbons 12-inches o.c.	SECUROCK, DEXcell FA, DensDeck Prime or Min. 1/2-inch DuraBoard	OlyBond 500 applied in ribbons 12-inches o.c.	Derbibase, Derbibase Ultra, torch adhered	OPTIONAL P APP Ply	P APP Cap	-77.5 (Lim. 9)
C-A-8	OPTIONAL Vapor Barrier	Min. 1.5-inch Derbiboard	DUOTACK applied in ribbons 12-inches o.c.	DensDeck Prime, DEXcell FA or SECUROCK	DUOTACK applied in ribbons 12-inches o.c.	Derbibase, Derbibase Ultra, torch adhered	OPTIONAL P APP Ply	P APP Cap	-77.5 (Lim. 9)
C-A-9	-	Min. 1.5-inch Derbiboard	Derbiboard LR applied in ribbons spaced 12-inches o.c.	-	-	Basesheet fully adhered in Permastic	OPTIONAL TA APP Ply	TA APP Cap 3	-82.5 (Lim. 9)
C-A-10	OPTIONAL Vapor Barrier	Min. 1.5-inch Derbiboard	DUOTACK applied in ribbons 12-inches o.c.	-	-	Basesheet fully adhered in Permastic	OPTIONAL TA APP Ply	TA APP Cap 3	-82.5 (Lim. 9)
C-A-11	-	Min. 1.5-inch Derbiboard	Derbiboard LR applied in ribbons spaced 12-inches o.c.	-	-	Derbibase, or Derbibase HV fully adhered in Permastic	OPTIONAL P APP Ply	P APP Cap	-82.5 (Lim. 9)
C-A-12	OPTIONAL Vapor Barrier	Min. 1.5-inch Derbiboard	DUOTACK applied in ribbons 12-inches o.c.	-	-	Derbibase or Derbibase HV fully adhered in Permastic	OPTIONAL P APP Ply	P APP Cap	-82.5 (Lim. 9)

Assemblies with All Layers Adhered over Concrete Deck (New or Existing)									
System No.	Vapor Barrier	Base Insulation	Base Attachment	Top Insulation	Top Attachment	Base Ply	Ply Sheet	Cap Sheet	MDP (psf)
C-A-13	-	Min. 1.5-inch Derbiboard	Fully adhered in ASTM D 312, Type IV Asphalt or Permastic; or OlyBond 500 applied in ribbons spaced 12-inches o.c.	SECUROCK	Fully adhered in ASTM D 312, Type IV Asphalt or Permastic; or OlyBond 500 applied in ribbons spaced 12-inches o.c.	Basesheet fully adhered in Permastic	OPTIONAL TA APP Ply	TA APP Cap	-105 (Lim. 9)
C-A-14	OPTIONAL Vapor Barrier	Min. 1.5-inch Derbiboard	DUOTACK applied in ribbons 12-inches o.c.	SECUROCK	DUOTACK applied in ribbons 12-inches o.c.	Basesheet fully adhered in Permastic	OPTIONAL TA APP Ply	TA APP Cap	-105 (Lim. 9)
C-A-15	-	Min. 1.5-inch Derbiboard	Fully adhered in ASTM D 312, Type IV Asphalt or Permastic; or OlyBond 500 applied in ribbons spaced 12-inches o.c.	SECUROCK	Fully adhered in ASTM D 312, Type IV Asphalt or Permastic; or OlyBond 500 applied in ribbons spaced 12-inches o.c.	Derbibase HV fully adhered in Permastic	OPTIONAL P APP Ply	P APP Cap	-105 (Lim. 9)
C-A-16	OPTIONAL Vapor Barrier	Min. 1.5-inch Derbiboard	DUOTACK applied in ribbons 12-inches o.c.	SECUROCK	DUOTACK applied in ribbons 12-inches o.c.	Derbibase HV fully adhered in Permastic	OPTIONAL P APP Ply	P APP Cap	-105 (Lim. 9)
C-A-17	OPTIONAL Vapor Barrier	Min. 1-inch ISO	OlyBond 500 applied in ribbons 12-inches o.c.	SECUROCK, DEXcell FA or Min. 1/2-inch DuraBoard	OlyBond 500 applied in ribbons 12-inches o.c.	TA APP Base 2	OPTIONAL TA APP Base	TA APP Cap 3	-130 (Lim. 9)
C-A-18	OPTIONAL Vapor Barrier	Min. 1-inch Derbiboard	DUOTACK applied in ribbons 12-inches o.c.	SECUROCK, or DEXcell FA	DUOTACK applied in ribbons 12-inches o.c.	TA APP Base 2	OPTIONAL TA APP Base	TA APP Cap 3	-130 (Lim. 9)
C-A-19	OPTIONAL Vapor Barrier	OPTIONAL ISO	OlyBond 500 applied in ribbons 12-inches o.c.	Min. 1/2-inch DuraBoard	OlyBond 500 applied in ribbons 12-inches o.c.	TA APP Base	OPTIONAL TA APP Base	TA APP Cap 3	-130 (Lim. 9)
C-A-20	-	Min. 1.5-inch Derbiboard	Fully adhered in ASTM D 312, Type IV Asphalt	OPTIONAL Structodek, Fesco, or Retro-Fit	Fully adhered in ASTM D 312, Type IV Asphalt	Basesheet 2 applied in ASTM D 312, Type IV Asphalt	OPTIONAL TA APP Ply	TA APP Cap	-150 (Lim. 9)
C-A-21	OPTIONAL Vapor Barrier	Min. 1-inch ISO	OlyBond 500 applied in ribbons 12-inches o.c.	DensDeck Prime	OlyBond 500 applied in ribbons 12-inches o.c.	TA APP Base	OPTIONAL TA APP Base	TA APP Cap 3	-160 (Lim. 9)
C-A-22	OPTIONAL Vapor Barrier	Min. 1-inch Derbiboard	DUOTACK applied in ribbons 12-inches o.c.	DensDeck Prime	DUOTACK applied in ribbons 12-inches o.c.	TA APP Base	OPTIONAL TA APP Base	TA APP Cap 3	-160 (Lim. 9)



Assemblies with All Layers Adhered over Concrete Deck (New or Existing)									
System No.	Vapor Barrier	Base Insulation	Base Attachment	Top Insulation	Top Attachment	Base Ply	Ply Sheet	Cap Sheet	MDP (psf)
C-A-23	OPTIONAL Vapor Barrier	Min. 1-inch ISO	OlyBond 500 applied in ribbons 12-inches o.c.	SECUROCK or Min. 1/2-inch DuraBoard	OlyBond 500 applied in ribbons 12-inches o.c.	Derbigum GP or Derbigum XPS torch adhered	OPTIONAL TA APP Base	TA APP Cap 3	-160 (Lim. 9)
C-A-24	OPTIONAL Vapor Barrier	Min. 1-inch Derbiboard	DUOTACK applied in ribbons 12-inches o.c.	SECUROCK	DUOTACK applied in ribbons 12-inches o.c.	Derbigum GP or Derbigum XPS torch adhered	OPTIONAL TA APP Base	TA APP Cap 3	-160 (Lim. 9)
C-A-25	-	Fesco or Retro-Fit	Fully adhered in ASTM D 312, Type IV Asphalt	-	-	Basesheet 2 applied in ASTM D 312, Type IV Asphalt	OPTIONAL TA APP Ply	TA APP Cap	-180 (Lim. 9)
C-A-26	-	Structodek	Fully adhered in ASTM D 312, Type IV Asphalt	-	-	Basesheet 2 applied in ASTM D 312, Type IV Asphalt	OPTIONAL TA APP Ply	TA APP Cap	-210 (Lim. 9)
C-A-27	OPTIONAL Vapor Barrier	DensDeck Prime	DUOTACK or OlyBond 500 applied in ribbons 12-inches o.c.	-	-	TA APP Base	OPTIONAL TA APP Base	TA APP Cap 3	-210 (Lim. 9)
C-A-28	OPTIONAL Vapor Barrier	SECUROCK or Min. 1/2-inch DuraBoard	OlyBond 500 applied in ribbons 12-inches o.c.	-	-	Derbigum GP or Derbigum XPS torch adhered	OPTIONAL TA APP Base	TA APP Cap 3	-210 (Lim. 9)
C-A-29	OPTIONAL Vapor Barrier	SECUROCK	DUOTACK applied in ribbons 12-inches o.c.	-	-	Derbigum GP or Derbigum XPS torch adhered	OPTIONAL TA APP Base	TA APP Cap 3	-210 (Lim. 9)
C-A-30	-	-	-	-	-	Basesheet 2 applied in ASTM D 312, Type IV Asphalt	OPTIONAL TA APP Ply	TA APP Cap	-300 (Lim. 9)
C-A-31	OPTIONAL Vapor Barrier	Min. 1-inch AC Foam II	DUOTACK or OlyBond 500 applied in ribbons 12-inches o.c.	DensDeck Prime	DUOTACK or OlyBond 500 applied in ribbons 12-inches o.c.	Derbibase, Derbibase Ultra, or Derbigum GP torch adhered	OPTIONAL TA APP Ply	TA Cap	-300 (Lim. 9)
C-A-32	-	-	-	-	-	TA APP Base to primed concrete at a rate of 125-150 ft ² /gal	OPTIONAL TA APP Base	Derbicolor P-FR; torch adhered	-332.5 (Lim. 9)
C-A-33	-	-	-	-	-	Derbibase Ultra torch adhered	Derbibase Ultra torch adhered	TA APP Cap 2	-502.5 (Lim. 9)

Assemblies with Adhered Membranes over Insulated Concrete Deck (New, Existing, or Recover)								
System No.	Base Insulation	Base Attachment	Top Insulation	Top Attachment	Base Ply	Ply Sheet	Cap Sheet	MDP (psf)
C-AM-1	OPTIONAL <i>Insulation</i>	Simultaneously secured with top layer	Min. ¾-inch Fesco Board or min. 1.5-inch DerbiBoard or DerbiBoard CA	Dekfast Hex Plates and #14 Dekfast fasteners at rate of 1 per 2ft²	<i>P APP Ply</i>	OPTIONAL <i>P APP Ply</i>	<i>P APP Cap</i>	-30 (Lim. 9; Non-HVHZ)
C-AM-2	OPTIONAL <i>Insulation</i>	Simultaneously secured with top layer	Min. ¾-inch Fesco Board or min. 1.5-inch DerbiBoard or DerbiBoard CA	Dekfast Hex Plates and #14 Dekfast fasteners at rate of 1 per 1.6ft² for Fesco Board or 1 per 3 ft² for AC Foam II and DerbiBoard	<i>P APP Ply</i>	OPTIONAL <i>P APP Ply</i>	<i>P APP Cap</i>	-45 (Lim. 9)
C-AM-3	Min. 1.5-inch DerbiBoard	<i>Perlok-O #14 Fasteners & Plates</i> at rate of 1 per 1.45ft²	<i>Structodek, Retro-Fit, or Fesco</i>	Fully adhered in ASTM D 312, Type IV Asphalt	<i>Basesheet 2</i> applied in ASTM D 312, Type IV Asphalt	OPTIONAL <i>TA APP Ply</i> or <i>P App Ply</i>	<i>TA APP Cap, TA APP Cap 3</i> or <i>P App Cap</i>	-45 (Lim. 7)
C-AM-4	Min. 2-inch DerbiBoard	<i>Perlok-O #14 Fasteners & Plates</i> at rate of 1 per 1.45ft²	<i>Structodek, Retro-Fit, or Fesco</i>	Fully adhered in ASTM D 312, Type IV Asphalt	<i>Basesheet 2</i> applied in ASTM D 312, Type IV Asphalt	OPTIONAL <i>TA APP Ply</i> or <i>P App Ply</i>	<i>TA APP Cap, TA APP Cap 3</i> or <i>P App Cap</i>	-60 (Lim. 7)

Mechanically Fastened Assemblies over Concrete Deck (New, Existing, or Recover)							
System No.	Base Insulation	Top Insulation	Base Sheet	Base Sheet Attachment	Ply Sheet	Cap Sheet	MDP (psf)
C-M-1	Min. 1.5-inch <i>Insulation</i>	OPTIONAL <i>Insulation</i>	Derbigum GP	<i>Perlok-O #14 Fasteners & Plates</i> secured 6-inch o.c. within the min. 6-inch wide heat welded side laps	-	<i>TA APP Cap</i> or <i>TA APP Cap 3</i>	-45 (Lim. 9)
C-M-2	OPTIONAL <i>Insulation</i>	<i>Structodek, Retro-Fit, or Min. 1.5-inch DerbiBoard</i>	PRS Glass Base	<i>Perlok-O Fasteners & Plates</i> secured 9-inch o.c. through the min. 2-inch side laps and 9-inch o.c. in three (3) evenly rows spaced between the side laps	<i>Basesheet 2</i> applied in ASTM D 312, Type IV Asphalt	<i>TA APP Cap, TA APP Cap 3</i> or <i>P APP Cap</i>	-52.5 (Lim. 7)

Assemblies with All Layers Adhered over Insulated Cementitious Wood Fiber Deck (New, Existing or Recover)								
System No.	Thermal Barrier	Vapor Barrier	Base Insulation	Top Insulation	Base Ply	Ply Sheet	Cap Sheet	MDP (psf)
CW-AM-1	<i>DEXcell CB</i> adhered in Duotack 365 applied in ribbons 12-inches o.c.	Derbicolor GP torch adhered	Min. 1.5-inch DerbiBoard adhered in Duotack 365 applied in ribbons 12-inches o.c.	<i>DEXcell CB</i> adhered in Duotack 365 applied in ribbons 12-inches o.c.	Derbibase Ultra or Derbigum GP Torch adhered	OPTIONAL <i>TA APP Ply</i>	<i>TA APP Cap 3</i>	-107.5 (Lim. 9)

Assemblies with Adhered Membranes over Insulated Cementitious Wood Fiber Deck (New, Existing or Recover)								
System No.	Base Insulation or Anchor Sheet	Base or Anchor Attachment	Top Insulation	Top Attachment	Base Ply	Ply Sheet	Cap Sheet	MDP (psf)
CW-AM-2	-	-	DensDeck, Structodek, Fesco, or Retro-Fit	OMG OlyLok fastened at a rate of 1 per 2-ft ²	Basesheet 2 applied in ASTM D 312, Type IV Asphalt	OPTIONAL TA APP Ply or P App Ply	TA APP Cap 3 or P App Cap	-45 (Lim. 9)
CW-AM-3	-	-	Min. 1.5-inch Derbiboard CA	OMG OlyLok (min. 1-inch embedment in deck) fastened at a rate of 1 per 2-ft ²	Basesheet 2 applied in Permastic	OPTIONAL TA APP Ply or P App Ply	TA APP Cap 3 or P App Cap	-45 (Lim. 9)

Mechanically Attached Assemblies over Cementitious Wood Fiber Deck (New or Existing)						
System No.	Insulation	Base Ply	Base Ply Attachment	Ply Sheet	Cap Sheet	MDP (psf)
CW-M-1	-	Basesheet	OMG OlyLok spaced 9-inch o.c. through the 2-inch side lap and 18-inch o.c. in two (2) equally spaced rows between the side laps	OPTIONAL TA APP Ply	TA APP Cap 3	-45 (Lim. 9)

Assemblies with All Layers Adhered over Insulated Poured Gypsum Deck (New and Existing)								
System No.	Thermal Barrier	Vapor Barrier	Base Insulation	Top Insulation	Base Ply	Ply Sheet	Cap Sheet	MDP (psf)
G-A-1	DEXcell CB adhered in Duotack 365 applied in ribbons 12-inches o.c.	Derbicolor GP torch adhered	Min. 1.5-inch Derbiboard adhered in Duotack 365 applied in ribbons 12-inches o.c.	DEXcell CB adhered in Duotack 365 applied in ribbons 12-inches o.c.	Derbibase Ultra or Derbigum GP Torch adhered	OPTIONAL TA APP Ply	TA APP Cap 3	-140 (Lim. 9)

Assemblies with Adhered Membranes over Insulated Poured Gypsum Deck (New and Existing)								
System No.	Base Insulation or Anchor Sheet	Base or Anchor Attachment	Top Insulation	Top Attachment	Base Ply	Ply Sheet	Cap Sheet	MDP (psf)
G-AM-1	-	-	DensDeck, Structodek, Fesco, or Retro-Fit	OMG OlyLok fastened at a rate of 1 per 2-ft ²	Basesheet 2 applied in ASTM D 312, Type IV Asphalt	OPTIONAL TA APP Ply or P APP Ply	TA APP Cap 3 or P App Cap	-45 (Lim. 9)

Assemblies with Adhered Membranes over Insulated Poured Gypsum Deck (New and Existing)								
System No.	Base Insulation or Anchor Sheet	Base or Anchor Attachment	Top Insulation	Top Attachment	Base Ply	Ply Sheet	Cap Sheet	MDP (psf)
G-AM-2	-	-	Min. 1.5-inch Derbiboard CA	OMG OlyLok (min. 1-inch embedment in deck) fastened at a rate of 1 per 2-ft ²	Basesheet 2 applied in Permastic	OPTIONAL TA APP Ply or P APP Ply	TA APP Cap 3 or P App Cap	-45 (Lim. 9)

Mechanically Attached Assemblies over Poured Gypsum Deck (New or Existing)						
System No.	Insulation	Base Ply	Base Ply Attachment	Ply Sheet	Cap Sheet	MDP (psf)
G-M-1	-	Basesheet	OMG OlyLok spaced 9-inch o.c. through the 2-inch side lap and 18-inch o.c. in two (2) equally spaced rows between the side laps	OPTIONAL TA APP Ply	TA APP Cap 3	-45 (Lim. 9)

Lightweight Concrete Assemblies with All Layers Adhered over Concrete Deck (New or Existing)								
System No.	Vapor Barrier	LWIC	Insulation/ Cover Board	Insulation/ Cover Board Attachment	Base Ply	Ply Sheet	Cap Sheet	MDP (psf)
LC-A-1	-	Min. 390 Celcore MF with HS Rheology Modifying Admixture	DEXcell CB	Derbiboard LR applied in ribbons spaced 12-inch o.c.	TA APP Base	TA APP Ply	TA APP Cap	-52.5 (Lim. 9)
LC-A-2	Derbibase Ultra torch adhered over deck primed with ASTM D 41 primer	NVS	DensDeck Prime	OlyBond 500 applied in ribbons 12-inches o.c.	Derbibase Ultra Torch adhered	TA APP Ply	TA APP Cap	-80 (Lim. 9)
LC-A-3	Derbibase Ultra torch adhered over deck primed with ASTM D 41 primer	NVS	DEXcell CB	OlyBond 500 applied in ribbons 12-inches o.c.	Derbibase Ultra Torch adhered	TA APP Ply	TA APP Cap	-90 (Lim. 9)
LC-A-4	-	Min. 290 psi Celcore MF with HS Rheology Modifying Admixture	ACFoam HS	OlyBond 500 applied in ribbons spaced 6-inch o.c.	Derbibase or Derbibase HV fully adhered in Permastic	OPTIONAL TA APP Ply or P APP Ply	TA APP Cap or P APP Cap	-92.5 (Lim. 9)

Lightweight Concrete Assemblies with All Layers Adhered over Concrete Deck (New or Existing)								
System No.	Vapor Barrier	LWIC	Insulation/ Cover Board	Insulation/ Cover Board Attachment	Base Ply	Ply Sheet	Cap Sheet	MDP (psf)
LC-A-5	Derbibase Ultra torch adhered	Min. 420 psi Celcore MF with HS Rheology Modifying Admixture	Min. 1.5-inch ISO adhered in OlyBond 500 applied in ribbons spaced 12-inch o.c.	SECUROCK or DEXcell FA adhered in OlyBond 500 applied in ribbons spaced 12-inch o.c.	Derbibase Ultra Torch adhered	OPTIONAL TA APP Ply	TA APP Cap	-102.5 (Lim. 9)
LC-A-6	-	Min. 310 psi Celcore MF with HS Rheology Modifying Admixture	DEXcell CB adhered in Duotack 365 applied in ribbons 12-inches o.c. covered in Derbicolor GP torch adhered	Min. 1.5-inch Derbiboard under DEXcell CB all layers adhered in Duotack 365 applied in ribbons 12-inches o.c.	Derbibase Ultra or Derbigum GP Torch adhered	OPTIONAL TA APP Ply	TA APP Cap 3	-112.5 (Lim. 9)
LC-A-7	Derbibase Ultra torch adhered	Min. 420 psi Celcore MF with HS Rheology Modifying Admixture	Min. 1.5-inch ISO adhered in OlyBond 500 applied in ribbons spaced 12-inch o.c.	ACFoam HS adhered in OlyBond 500 applied in ribbons spaced 12-inch o.c.	Derbibase HV fully adhered in Permastic	OPTIONAL TA APP Ply or P APP Ply	TA APP Cap or P APP Cap	-127.5 (Lim. 9)
LC-A-8	-	Min. 400 psi cellular lightweight concrete (MCRF $\geq$ 156lb/ft ³ with FM-90)	-	-	Derbibase or Derbibase Ultra adhered in COLPLY EF applied in ribbons spaced 6-inches o.c.	OPTIONAL TA APP Ply	TA APP Cap 3	-165 (Lim. 9)
LC-A-9	-	Min. 290 psi Celcore MF with HS Rheology Modifying Admixture	-	-	Derbibase torch adhered after priming with ASTM D 41 primer at a rate of 100-ft ² /gal	OPTIONAL TA APP Ply	TA APP Cap	-200 (Lim. 9)
LC-A-10	-	Min. 400 psi cellular lightweight concrete (MCRF $\geq$ 156lb/ft ³ with FM-90)	SOPRABOARD	Duotack 365 applied in ribbons 6-inches o.c.	Derbibase or Derbibase Ultra torch adhered	OPTIONAL TA APP Ply	TA APP Cap 3	-210 (Lim. 9)



Mechanically Fastened Lightweight Concrete Assemblies over Concrete Deck (New or Existing)								
System No.	Thermal Barrier	Vapor Barrier	LWIC	Base Sheet	Base Sheet Attachment	Ply Sheet	Cap Sheet	MDP (psf)
LC-M-1	-	-	Min. 360 psi Celcore MF with HS Rheology Modifying Admixture	Deribase HV	TruFast FM-90 Base Ply Fastener spaced 7-inch o.c. through the min. 4-inch side laps and spaced 7-inches o.c. in two equally spaced, staggered rows in the field of the sheet	OPTIONAL TA APP Ply	TA APP Cap 3	-37.5 (Lim. 7; Non-HVHZ)
LC-M-2	-	-	Min. 390 Celcore MF with HS Rheology Modifying Admixture	PRS Glass Base	TruFast FM-90 Base Ply Fastener spaced 12-inch o.c. through the min. 4-inch side laps and spaced 12-inches o.c. in two equally spaced, staggered rows in the field of the sheet	Deribase Ultra; Torch adhered	TA APP Cap	-37.5 (Lim. 7; Non-HVHZ)
LC-M-3	-	OPTIONAL Deribase Ultra; Torch adhered	NVS	PRS Glass Base	TruFast FM-75 Base Ply Fastener spaced 9-inch o.c. through the min. 3.5-inch side laps and spaced 9-inches o.c. in two equally spaced, staggered rows in the field of the sheet	Deribase Ultra; Torch adhered	TA APP Cap	-45 (Lim. 7)
LC-M-4	-	-	Min. 300 psi Concrecel	Basesheet	Perlok CR Base Sheet Fasteners spaced 7-inch o.c. at the min. 4-inch side lap and at 7-inch o.c. in two evenly spaced rows in the field of the sheet	OPTIONAL TA APP PLY	TA APP Cap 3	-60 (Lim. 7)
LC-M-5	-	-	Min. 300 psi Celcore MF with HS Rheology Modifying Admixture	Basesheet	Perlok CR Base Sheet Fasteners spaced 9-inch o.c. at the min. 4-inch side lap and at 9-inch o.c. in two evenly spaced rows in the field of the sheet	OPTIONAL TA APP PLY	TA APP Cap 3	-60 (Lim. 7)



Mechanically Fastened Lightweight Concrete Assemblies over Concrete Deck (New or Existing)								
System No.	Thermal Barrier	Vapor Barrier	LWIC	Base Sheet	Base Sheet Attachment	Ply Sheet	Cap Sheet	MDP (psf)
LC-M-6	-	-	Min. 310 psi Celcore MF with HS Rheology Modifying Admixture	Deribase HV	TruFast FM-90 Base Ply Fastener spaced 6-inch o.c. through the min. 4-inch side laps and spaced 6-inches o.c. in two equally spaced, staggered rows in the field of the sheet	OPTIONAL TA APP Ply	TA APP Cap 3	-60 (Lim. 7)
LC-M-7	-	-	Min. 390 psi Celcore MF with HS Rheology Modifying Admixture	Deribase HV	Twin Loc-Nails spaced 7.5-inches o.c. through the min. 3-inch side laps and spaced 7.5-inches o.c. in two equally spaced, staggered rows in the field of the sheet	Basesheet torch adhered	TA APP Cap 3	-67.5 (Lim. 7)
LC-M-8	-	-	Min. 390 Celcore MF with HS Rheology Modifying Admixture	PRS Glass Base	TruFast FM-90 Base Ply Fastener spaced 9-inch o.c. through the min. 4-inch side laps and spaced 9-inches o.c. in two equally spaced, staggered rows in the field of the sheet	Deribase Ultra; Torch adhered	TA APP Cap	-67.5 (Lim. 7)
LC-M-9	-	-	Min. 370 psi Celcore MF with HS Rheology Modifying Admixture	Bitutak MB or Resisto Bitutak MB (inverted)	TruFast FM-90 Base Ply Fastener spaced 7-inch o.c. through the min. 4-inch side laps and spaced 7-inches o.c. in two equally spaced, staggered rows in the field of the sheet	OPTIONAL TA APP Ply	TA APP Cap 3	-75 (Lim. 7)

Mechanically Fastened Lightweight Concrete Assemblies over Concrete Deck (New or Existing)								
System No.	Thermal Barrier	Vapor Barrier	LWIC	Base Sheet	Base Sheet Attachment	Ply Sheet	Cap Sheet	MDP (psf)
LC-M-10		-	Min. 387 psi Celcore MF with HS Rheology Modifying Admixture	Deribase HV	TruFast FM-90 Base Ply Fastener spaced 7-inch o.c. through the min. 4-inch side laps and spaced 7-inches o.c. in two equally spaced, staggered rows in the field of the sheet	OPTIONAL TA APP Ply	TA APP Cap 3	-82.5 (Lim. 7)

Adhered Lightweight Concrete Assemblies over Steel Deck (New or Existing)								
System No.	Deck Detail	LWIC	Base Insulation/Cover Board	Top Insulation	Base Ply	Ply Sheet	Cap Sheet	MDP (psf)
LS-A-1	G40, L5, F1, S12	Min. 290 psi Celcore MF with HS Rheology Modifying Admixture	-	ACFoam HS adhered in OlyBond 500 applied in ribbons spaced 6-inch o.c.	Deribase or Deribase HV fully adhered in Permastic	OPTIONAL TA APP Ply or P APP Ply	TA APP Cap 3 or P APP Cap	-45 (Lim. 9)
LS-A-5	G40, L6, P, S18	Min. 390 Celcore MF with HS Rheology Modifying Admixture; Deck treated with Celcore S-1	DEXcell CB adhered in Deribond LR applied in ribbons spaced 12-inch o.c.	-	TA APP Base	TA APP Ply	TA APP Cap	-52.5 (Lim. 9)

Lightweight Concrete Assemblies with Membranes Adhered to Insulation over Steel Deck (New or Existing)									
System No.	Deck Detail	LWIC	Base Insulation	Top Insulation	Top Insulation Attachment	Base Sheet	Ply Sheet	Cap Sheet	MDP (psf)
LS-AM-1	G40, L5	Min. 300 psi cellular lightweight concrete	OPTIONAL Insulation	Min. 0.5 inch SECUROCK	TruFast #15 Fasteners and Plates secured at a rate of 1 per 3.2-ft ²	Deribase Ultra Torch adhered	OPTIONAL TA APP Ply or P APP Ply	TA APP Cap 3 or P APP Ply	-37.5 (Lim. 7; Non-HVHZ)
LS-AM-2	G40, L5, F1, S12	Min. 300 psi cellular lightweight concrete	OPTIONAL Insulation	Min. 0.5 inch SECUROCK	TruFast #15 Fasteners and Plates secured at a rate of 1 per 1.33-ft ²	Deribase Ultra Torch adhered	OPTIONAL TA APP Ply or P APP Ply	TA APP Cap 3 or P APP Ply	-67.5 (Lim. 7)

Mechanically Fastened Lightweight Concrete Assemblies over Steel Deck (New or Existing)									
System No.	Deck Detail	Thermal Barrier	Vapor Barrier	LWIC	Base Sheet	Base Sheet Attachment	Ply Sheet	Cap Sheet	MDP (psf)
LS-M-1	G40, L5	-	-	Min. 360 psi Celcore MF with HS Rheology Modifying Admixture	Derbibase HV	TruFast FM-90 Base Ply Fastener spaced 7-inch o.c. through the min. 4-inch side laps and spaced 7-inches o.c. in two equally spaced, staggered rows in the field of the sheet	OPTIONAL TA APP Ply	TA APP Cap 3	-37.5 (Lim. 7; Non-HVHZ)
LS-M-2	G40, L6, P, S18	-	-	Min. 390 Celcore MF with HS Rheology Modifying Admixture; Deck treated with Celcore S-1	PRS Glass Base	TruFast FM-90 Base Ply Fastener spaced 12-inch o.c. through the min. 4-inch side laps and spaced 12-inches o.c. in two equally spaced, staggered rows in the field of the sheet	Derbibase Ultra; Torch adhered	TA APP Cap	-37.5 (Lim. 7; Non-HVHZ)
LS-M-3	G40, L6, P, S18	-	-	NVS	PRS Glass Base	TruFast FM-75 Base Ply Fastener spaced 9-inch o.c. through the min. 3.5-inch side laps and spaced 9-inches o.c. in two equally spaced, staggered rows in the field of the sheet	Derbibase Ultra; Torch adhered	TA APP Cap	-45 (Lim. 7)
LS-M-4	G40, L6, P, S18	DensDeck Prime; TruFast #15 Fasteners & Plates at a rate of 16 per 4-ft x 8-ft board	Derbibase Ultra; Torch adhered	NVS	PRS Glass Base	TruFast FM-75 Base Ply Fastener spaced 9-inch o.c. through the min. 4-inch side laps and spaced 9-inches o.c. in two equally spaced, staggered rows in the field of the sheet	Derbibase Ultra; Torch adhered	TA APP Cap	-45 (Lim. 7)
LS-M-5	G40, L5, PW, S30	-	-	Min. 300 psi Celcore MF with HS Rheology Modifying Admixture	Basesheet	Perlok CR Base Sheet Fasteners spaced 9-inch o.c. at the min. 4-inch side lap and at 9-inch o.c. in two evenly spaced rows in the field of the sheet	OPTIONAL TA APP PLY	TA APP Cap 3	-60 (Lim. 7)



Mechanically Fastened Lightweight Concrete Assemblies over Steel Deck (New or Existing)									
System No.	Deck Detail	Thermal Barrier	Vapor Barrier	LWIC	Base Sheet	Base Sheet Attachment	Ply Sheet	Cap Sheet	MDP (psf)
LS-M-6	G40, L5, PW, S12	-	-	Min. 300 psi Concrecel	Basesheet	Perlok CR Base Sheet Fasteners spaced 7-inch o.c. at the min. 4-inch side lap and at 7-inch o.c. in two evenly spaced rows in the field of the sheet	OPTIONAL TA APP PLY	TA APP Cap 3	-60 (Lim. 7)
LS-M-7	G40, L5, P, S15	-	-	Min. 310 psi Celcore MF with HS Rheology Modifying Admixture	Derbibase HV	TruFast FM-90 Base Ply Fastener spaced 6-inch o.c. through the min. 4-inch side laps and spaced 6-inches o.c. in two equally spaced, staggered rows in the field of the sheet	OPTIONAL TA APP Ply	TA APP Cap 3	-60 (Lim. 7)
LS-M-8	G40, L5, PW, S18	-	-	Min. 390 psi Celcore MF with HS Rheology Modifying Admixture	Derbibase HV	Twin Loc-Nails spaced 7.5-inches o.c. through the min. 3-inch side laps and spaced 7.5-inches o.c. in two equally spaced, staggered rows in the field of the sheet	Basesheet torch adhered	TA APP Cap 3	-67.5 (Lim. 7)
LS-M-9	G40, L6, P, S18	-	-	Min. 390 Celcore MF with HS Rheology Modifying Admixture; Deck treated with Celcore S-1	PRS Glass Base	TruFast FM-90 Base Ply Fastener spaced 9-inch o.c. through the min. 4-inch side laps and spaced 9-inches o.c. in two equally spaced, staggered rows in the field of the sheet	Derbibase Ultra; Torch adhered	TA APP Cap	-67.5 (Lim. 7)
LS-M-10	G40, L5, PW, S12	-	-	Min. 370 psi Celcore MF with HS Rheology Modifying Admixture; Deck treated with Celcore S-1	Bitutak MB or Resisto Bitutak MB (inverted)	TruFast FM-90 Base Ply Fastener spaced 7-inch o.c. through the min. 4-inch side laps and spaced 7-inches o.c. in two equally spaced, staggered rows in the field of the sheet	OPTIONAL TA APP Ply	TA APP Cap 3	-75 (Lim. 7)
LS-M-11	G40, L5, PW, S12	-	-	Min. 387 psi Celcore MF with HS Rheology Modifying Admixture; Deck treated with Celcore S-1	Derbibase HV	TruFast FM-90 Base Ply Fastener spaced 7-inch o.c. through the min. 4-inch side laps and spaced 7-inches o.c. in two equally spaced, staggered rows in the field of the sheet	OPTIONAL TA APP Ply	TA APP Cap 3	-82.5 (Lim. 7)

Recover Assemblies with All Layers Adhered									
System No.	Deck	Base Insulation	Base Attachment	Top Insulation	Top Attachment	Base Ply	Ply Sheet	Cap Sheet	MDP (psf)
R-A-1	Existing granule SBS Mod-Bit over Steel Deck	-	-	-	-	P APP Base	OPTIONAL TA APP Ply or P APP Ply	P APP Cap 3 or TA APP Cap 3	-112.5 (Lim. 9)
R-A-2	Existing smooth BUR	OPTIONAL Min. 1-inch ISO	OlyBond 500 applied in ribbons 12-inches o.c.	SECUROCK or DEXcell FA	OlyBond 500 applied in ribbons 12-inches o.c.	TA APP Base 2	OPTIONAL TA APP Base	TA APP Cap 3	-130 (Lim. 9)
R-A-3	Existing smooth BUR	OPTIONAL Min. 1-inch ISO	OlyBond 500 applied in ribbons 12-inches o.c.	Min. 1/2-inch DuraBoard	OlyBond 500 applied in ribbons 12-inches o.c.	TA APP Base	OPTIONAL TA APP Base	TA APP Cap 3	-130 (Lim. 9)
R-A-4	Existing smooth BUR	Min. 1-inch ISO	OlyBond 500 applied in ribbons 12-inches o.c.	DensDeck Prime	OlyBond 500 applied in ribbons 12-inches o.c.	TA APP Base	OPTIONAL TA APP Base	TA APP Cap 3	-160 (Lim. 9)
R-A-5	Existing smooth BUR	Min. 1-inch ISO	OlyBond 500 applied in ribbons 12-inches o.c.	SECUROCK or Min. 1/2-inch DuraBoard	OlyBond 500 applied in ribbons 12-inches o.c.	Derbigum GP or Derbigum XPS torch adhered	OPTIONAL TA APP Base	TA APP Cap 3	-160 (Lim. 9)
R-A-6	Existing smooth BUR over Steel Deck	-	-	-	-	-	-	Derbicolor GP or Derbicolor XPS in Permastic	-172.5 (Lim. 9)
R-A-7	Existing smooth APP Mod-Bit over Steel Deck	-	-	-	-	P APP Base or TA APP Base	OPTIONAL TA APP Ply or P APP Ply	P APP Cap 3 or TA APP Cap 3	-172.5 (Lim. 9)
R-A-8	Existing granule APP Mod-Bit over Concrete Deck	-	-	-	-	-	-	Derbicolor GP or Derbicolor XPS in Permastic	-180 (Lim. 9)
R-A-9	Existing granule SBS Mod-Bit over Steel Deck	-	-	-	-	-	-	P APP Cap 3	-195 (Lim. 9)
R-A-10	Existing granule APP Mod-Bit over Steel Deck	-	-	-	-	-	-	Derbicolor GP or Derbicolor XPS in Permastic	-205 (Lim. 9)
R-A-11	Existing smooth BUR	DensDeck Prime	OlyBond 500 applied in ribbons 12-inches o.c.	-	-	TA APP Base	OPTIONAL TA APP Base	TA APP Cap 3	-210 (Lim. 9)
R-A-12	Existing smooth BUR	SECUROCK or Min. 1/2-inch DuraBoard	OlyBond 500 applied in ribbons 12-inches o.c.	-	-	Derbigum GP or Derbigum XPS torch adhered	OPTIONAL TA APP Base	TA APP Cap 3	-210 (Lim. 9)

Recover Assemblies with All Layers Adhered									
System No.	Deck	Base Insulation	Base Attachment	Top Insulation	Top Attachment	Base Ply	Ply Sheet	Cap Sheet	MDP (psf)
R-A-13	Existing granule SBS Mod-Bit over Concrete Deck	-	-	-	-	P APP Base	OPTIONAL TA APP Ply or P APP Ply	P APP Cap 3 or TA APP Cap 3	-245 (Lim. 9)
R-A-14	Existing granule SBS Mod-Bit over Concrete Deck	-	-	-	-	-	-	P APP Cap 3	-262.5 (Lim. 9)
R-A-15	Existing smooth BUR over Concrete Deck	-	-	-	-	-	-	Derbicolor GP or Derbicolor XPS in Permastic	-280 (Lim. 9)
R-A-16	Existing smooth APP Mod-Bit over Concrete Deck	-	-	-	-	P APP Base or TA APP Base	OPTIONAL TA APP Ply or P APP Ply	P APP Cap 3 or TA APP Cap 3	-315 (Lim. 9)

Recover Assemblies with Adhered Membranes over Insulation							
System No.	Deck	Insulation	Insulation Attachment	Base Ply	Ply Sheet	Cap Sheet	MDP (psf)
R-AM-1	Min. 300 psi cellular lightweight concrete over Steel Deck (G33, L5, F1, S12)	Min. 0.5 inch SECUROCK	TruFast #15 Fasteners and Plates secured at a rate of 1 per 3.2-ft ²	Deribase Ultra Torch adhered	OPTIONAL TA APP Ply or P APP Ply	TA APP Cap 3 or P APP Cap	-37.5 (Lim. 7; Non-HVHZ)
R-AM-2	Min. 300 psi cellular lightweight concrete over Steel Deck (G33, L5, F1, S12)	Min. 0.5 inch SECUROCK	TruFast #15 Fasteners and Plates secured at a rate of 1 per 1.33-ft ²	Deribase Ultra Torch adhered	OPTIONAL TA APP Ply or P APP Ply	TA APP Cap 3 or P APP Cap	-67.5 (Lim. 7)
R-AM-3	Existing BUR	-	-	-	-	P APP Cap Min. 3-inch torch adhered side laps	-67.5 (Lim. 9)

Recover Assemblies with Adhered Membranes over Insulation							
System No.	Deck	Insulation	Insulation Attachment	Base Ply	Ply Sheet	Cap Sheet	MDP (psf)
R-AM-4	Existing smooth APP or SBS	Min. 1.5-inch DerbiBoard CA	Fully adhered in ASTM D 312, Type IV hot asphalt	<i>Basesheet</i> fully adhered in Permastic	-	<i>P APP Cap</i>	-67.5 (Lim. 9)
R-AM-5	Existing smooth APP or SBS	Min. 1.5-inch DerbiBoard CA	Fully adhered in ASTM D 312, Type IV hot asphalt	<i>Basesheet</i> fully adhered in Permastic	-	<i>TA APP Cap 3</i>	-75 (Lim. 9)

Assemblies with Adhered Membranes over Insulated Steel Deck (New, Existing, or Recover)										
System No.	Deck Detail	Base Insulation	Base Insulation Attachment	Vapor Barrier	Top Insulation	Top Insulation Attachment	Base Ply	Ply Sheet	Cap Sheet	MDP (psf)
S-AM-1	<i>G40, L5</i>	OPTIONAL <i>Insulation</i>	Simultaneously fastened with Top Insulation	-	<i>Fesco</i>	Dekfast Hex Plates and #14 Dekfast fasteners at rate of 1 per 2ft ²	<i>P APP Ply</i>	OPTIONAL <i>P APP Ply</i>	<i>P APP Cap</i>	-30 (Lim. 9; Non-HVHZ)
S-AM-2	<i>G40, L5</i>	OPTIONAL <i>Insulation</i>	Simultaneously fastened with Top Insulation	-	<i>Fesco</i> or min. 1.5-inch DerbiBoard or DerbiBoard CA	Dekfast Hex Plates and #14 Dekfast fasteners at rate of 1 per 1.6ft ² for Fesco Board or 1 per 3 ft ² for ACFoam II and DerbiBoard	<i>P APP Ply</i>	OPTIONAL <i>P APP Ply</i>	<i>P APP Cap</i>	-45 (Lim. 9)
S-AM-3	<i>G40, L6, F1, S24</i>	<i>Fesco, DensDeck, or SECUROCK</i> loose laid followed by Min. 1.5-inch DerbiBoard	<i>Perlok-O Fasteners & Plates</i> at rate of 1 per 1.45ft ²	-	<i>Structodek, Retro-Fit, or Fesco</i>	Fully adhered in ASTM D 312, Type IV Asphalt	<i>Basesheet 2</i> applied in ASTM D 312, Type IV Asphalt	OPTIONAL <i>TA APP Ply</i> or <i>P APP Ply</i>	<i>TA APP Cap 3</i> or <i>P APP Cap</i>	-45 (Lim. 7)
S-AM-4	<i>G40, L6, P, S24</i>	Min. 2-inch DerbiBoard	<i>Trufast #15 Fasteners & Plates</i> secured at rate of 1 per 1.33ft ²	-	<i>DEXcell FA</i>	<i>Derbibond LR</i> applied in ribbons 12-inches o.c.	Derbibase Ultra; Torch adhered	OPTIONAL <i>TA APP Ply</i> except Derbibase or <i>P APP Ply</i>	<i>TA APP Cap</i> or <i>P APP Cap</i>	-52.5 (Lim. 7)
S-AM-5	<i>G40, L6, P, S24</i>	Min. 2-inch DerbiBoard	<i>Trufast #15 Fasteners & Plates</i> secured at rate of 1 per 1.33ft ²	-	<i>DEXcell FA</i>	<i>DUOTACK</i> applied in ribbons 12-inches o.c.	Derbibase Ultra; Torch adhered	OPTIONAL <i>TA APP Ply</i> except Derbibase or <i>P APP Ply</i>	<i>TA APP Cap</i> or <i>P APP Cap</i>	-52.5 (Lim. 7)

Assemblies with Adhered Membranes over Insulated Steel Deck (New, Existing, or Recover)										
System No.	Deck Detail	Base Insulation	Base Insulation Attachment	Vapor Barrier	Top Insulation	Top Insulation Attachment	Base Ply	Ply Sheet	Cap Sheet	MDP (psf)
S-AM-6	G40, L6, F1, S24	Min. 2-inch DerbiBoard	Perlok-O Fasteners & Plates at rate of 1 per 1.45ft ²	-	Structodek, Retro-Fit, or Fesco	Fully adhered in ASTM D 312, Type IV Asphalt	Basesheet 2 applied in ASTM D 312, Type IV Asphalt	OPTIONAL TA APP Ply or P APP Ply	TA APP Cap 3 or P APP Cap	-60 (Lim. 7)
S-AM-7	G40, L6, P, S24	Min. 2-inch DerbiBoard	Simultaneously fastened with Top Insulation	-	Min. 0.5-inch DEXcell FA	Trufast #15 Fasteners & Plates secured at rate of 1 per 1.6ft ²	Derbibase Ultra; Torch adhered	OPTIONAL TA APP Ply except Derbibase or P APP Ply	TA APP Cap or P APP Cap	-60 (Lim. 7)
S-AM-8	G33, L6, P, S24	DEXcell CB	Trufast #15 Fasteners & Plates secured at rate of 1 per 2ft ²	Derbicolor P or Derbicolor GP torch adhered	Min. 1.5-inch DerbiBoard under DEXcell CB	All layers adhered in Duotack 365 applied in ribbons 12-inches o.c.	Derbibase Ultra; Torch adhered	OPTIONAL TA APP Ply except Derbibase or P APP Ply	TA APP Cap or P APP Cap	-60 (Lim. 7)

Mechanically Fastened Assemblies over Steel Deck (New, Existing, or Recover)								
System No.	Deck Detail	Base Insulation	Top Insulation	Base Sheet	Base Sheet Attachment	Ply Sheet	Cap Sheet	MDP (psf)
S-M-1	G80, L6	Min. 1.5-inch Insulation	OPTIONAL Insulation	Derbibase HV	TruFast #14 HD Fasteners & TruFast 2-inch Barbed Metal Seam Plates secured 12-inch o.c. in the min. 4-inch wide heat welded side laps	OPTIONAL TA APP Ply	TA APP Cap 3	-30 (Lim. 7; Non-HVHZ)
S-M-2	G40, L6	Min. 1-inch Insulation	OPTIONAL Insulation	Derbigum GP, Bitutak Cold, or Derbigum P	TruFast #15 HD Fasteners & TruFast 2.4-inch Barbed Metal Seam Plates secured 12-inch o.c. in the min. 5-inch wide heat welded side laps	OPTIONAL TA APP Ply	TA APP Cap 3	-37.5 (Lim 7; Non-HVHZ)
S-M-3	G40, L5	Insulation	OPTIONAL Insulation	Basesheet	Perlok Fasteners & Plates spaced 12-inch o.c. at the min. 4-inch side laps and 18-inch o.c. in two rows (2) 12-inches from each side lap	OPTIONAL TA APP Ply	TA APP Cap 3	-45 (Lim. 9)
S-M-4	G40, L5	Min. 1.5-inch Insulation	OPTIONAL Insulation	Derbigum GP	Perlok-O #14 Fasteners & Plates secured 6-inch o.c. within the min. 6-inch heat welded side laps	-	TA APP Cap 3	-45 (Lim. 9)



Mechanically Fastened Assemblies over Steel Deck (New, Existing, or Recover)								
System No.	Deck Detail	Base Insulation	Top Insulation	Base Sheet	Base Sheet Attachment	Ply Sheet	Cap Sheet	MDP (psf)
S-M-5	G80, L6, F2, W, S12	Insulation	OPTIONAL Insulation	Basesheet	OMG XHD fasteners and AccuTrac Flat Bottom plates secured 6-inch o.c. at the min. 3-inch wide heat welded side laps and 12-inch o.c. in two staggered rows 10-inches from each side lap	OPTIONAL P APP Ply or TA APP Ply	P APP Cap or TA APP Cap 3	-52.5 (Lim. 7)
S-M-6	G80, L6, W, S24	Min. 1-inch Insulation	OPTIONAL Insulation	Derbigum GP	TruFast #15 HD Fasteners & TruFast 2.4-inch Barbed Metal Seam Plates secured 6-inch o.c. in the min. 6-inch wide heat welded side laps	OPTIONAL TA APP Ply	TA APP Cap 3	-52.5 (Lim. 7)
S-M-7	G80, L6	Min. 1-inch Insulation	OPTIONAL Insulation	Derbigum GP	TruFast #15 HD Fasteners & TruFast 2.4-inch Barbed Metal Seam Plates secured 6-inch o.c. in the min. 6-inch wide heat welded side laps	OPTIONAL TA APP Ply	TA APP Cap 3	-67.5 (Lim. 7; Non-HVHZ)
S-M-8	G80, L6, F2, W, S12	Insulation	OPTIONAL Insulation	Derbibase HV	OMG XHD fasteners and Perlok-O Plates secured 12-inch o.c. at the min. 3-inch wide heat welded side laps and 12-inch o.c. two equally spaced, staggered rows in the field of the roll	Derbibase Ultra torch adhered	TA APP Cap or TA APP Cap 3	-82.5 (Lim. 7)
S-M-9	G80, L6, F2, W, S12	Min. 2-inch Insulation	Min. 0.5-inch DensDeck or SECUROCK	Derbibase HV	TruFast #15 EHD Fasteners & Perlok Steel Plates secured 12-inch o.c. at the min. 3-inch wide heat welded side laps and 12-inch o.c. in two equally spaced, staggered rows in the field of the roll	Derbibase Ultra torch adhered	TA APP Cap	-172.5 (Lim. 7)

Assemblies with Adhered Membranes over Insulated Wood Deck (New, Existing, or Recover)									
System No.	Deck Detail	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Base Ply	Ply Sheet	Cap Sheet	MDP (psf)
W-AM-1	T3/4, L32, N6	Min. 0.5-inch DensDeck loose laid followed by Min. 1.5-inch DerbiBoard	Perlok-O Fasteners & Plates at rate of 1 per 1.45ft ²	Structodek, Retro-Fit, or Fesco	Fully adhered in ASTM D 312, Type IV Asphalt	Basesheet 2 applied in ASTM D 312, Type IV Asphalt	OPTIONAL TA APP Ply or P APP Ply	TA APP Cap 3 or P APP Cap	-45 (Lim. 7)

Assemblies with Adhered Membranes over Insulated Wood Deck (New, Existing, or Recover)									
System No.	Deck Detail	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Base Ply	Ply Sheet	Cap Sheet	MDP (psf)
W-AM-2	T3/4, L32, N6	Min. 0.5-inch <i>DensDeck</i> loose laid followed by Min. 2-inch <i>DerbiBoard</i>	<i>Perlok-O Fasteners & Plates</i> at rate of 1 per 1.45ft ²	<i>Structodek, Retro-Fit, or Fesco</i>	Fully adhered in ASTM D 312, Type IV Asphalt	<i>Basesheet 2</i> applied in ASTM D 312, Type IV Asphalt	OPTIONAL <i>TA APP Ply</i> or <i>P APP Ply</i>	<i>TA APP Cap 3</i> or <i>P APP Cap</i>	-60 (Lim. 7)

Mechanically Fastened Assemblies over Wood Deck (New, Existing, or Recover)							
System No.	Deck Detail	Insulation	Base Sheet	Base Sheet Attachment	Ply Sheet	Cap Sheet	MDP (psf)
W-M-1	T3/4, L32, N6	Min. 0.5-inch <i>DensDeck</i> loose laid followed by <i>Structodek, Retro-Fit</i> , or Min. 1.5-inch <i>DerbiBoard</i>	PRS Glass Base	<i>Perlok-O Fasteners & Plates</i> secured 9-inch o.c. through the min. 2-inch side laps and 9-inch o.c. in three (3) evenly rows spaced between the side laps	OPTIONAL <i>TA APP Ply</i>	<i>TA APP Cap</i>	-52.5 (Lim. 7)

END OF REPORT