

Evaluation of LS-36 Wall Panels- 24-DrJ-0068
December 19, 2024

Mr. Mark J Klos
Metl-Span, A Nucor Company
1550 Coraopolis Heights Rd Ste 600
Moon Township, PA 15108-2973

Re: Evaluation of LS-36 Wall Panels

Dear Mr. Klos:

DrJ Engineering, LLC (DrJ) has been asked to provide a Florida professional engineering accepted engineering practice review with respect to the LS-36 Wall Panels. This work has been performed pursuant to our areas of expertise. The purpose of the DrJ review is to provide an engineering assessment of the conformance of the LS-36 Wall Panel with the 2023 Florida Building Code (FBC).

LS-36 Wall Panels conform to Section 1403, Section 1404, Section 1405 and Section 2603 of the 2023 FBC. LS-36 panels have a polyisocyanurate (polyiso) plastic core with a minimum density of 2.0 pcf and two steel facers. These facers are made from galvanized coated steel or Galvalume® AZ50 coated steel (minimum 33 ksi) and are 22 ga, 24 ga or 26 ga thick. This thickness meets the weather protection requirements in Section 1405.2 and Section 1406.2.1.1 in the FBC. The available thicknesses of the LS-36 panels are 1.5", 2", 2.5", 3", 4", 5" and 6". The panels have a coverage width of 36".

Panels must be attached to supports that are a minimum of 16 ga steel (minimum $F_y = 50$ ksi). Panels shall be fastened through the supports to the framing members using $\frac{1}{4}$ "-14 Type 3 hex head self-drilling screws and $\frac{5}{8}$ " diameter neoprene bonded washers spaced 12" o.c. throughout the panel. Fasteners must be long enough to penetrate through the support at least 3 threads. For 12 ga or thicker supports a $\frac{1}{4}$ "-20 or $\frac{1}{4}$ "-28 Type 5 self-drilling screws may be used instead. Self-tapping screws may be used as well. All fasteners must be corrosion resistant. Fasteners must be placed in a standard schedule of three fasteners per support or with the optional six fasteners per support option. Side lap attachment shall be made using $\frac{1}{4}$ "-14 x $\frac{7}{8}$ " long Type 1 hex washer head self-drilling screws at a maximum of 20" o.c.

The maximum allowable inward and outward transverse loads for different spans of this product can be found in **Table 1** through **Table 16**. These tables conform to the requirements of the FBC.



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Table 1. Allowable Inward Loads for 26Ga/26Ga Faced LS-36 Wall Panel with L/120 Deflection Ratio^{1,2,3,4}

Thickness	# of Spans	Support Spacing (ft)							
		3	4	5	6	8	10	12	14
1.5	1	135	85	61	48	34	21	13	9
	2	61	46	36	30	23	18	15	13
	3+	62	46	37	31	23	18	15	13
2	1	167	107	78	61	43	31	20	13
	2	81	60	48	40	30	24	20	17
	3+	81	61	48	40	30	24	20	17
2.5	1	199	128	95	75	53	41	27	19
	2	100	75	60	50	37	29	24	21
	3+	100	75	60	50	37	30	25	21
3	1	238	155	114	91	64	50	35	24
	2	124	93	74	61	46	36	30	25
	3+	123	92	73	61	46	36	30	26
4	1	284	189	141	113	81	63	51	38
	2	161	122	97	80	59	47	39	33
	3+	159	119	94	79	59	47	39	34
5	1	340	226	169	135	96	75	61	49
	2	194	147	118	98	72	57	47	40
	3+	192	143	113	94	70	56	47	40
6	1	365	249	189	153	110	86	71	57
	2	231	174	139	115	85	67	55	47
	3+	225	167	133	110	83	66	55	47

1. Based on Allowable Stress Design (ASD). No factor has been applied for loads limited by deflection.
2. Allowable inward loads shown in this table are based on the lowest value of panel wrinkling, shear and deflection ratio limits
3. Structural capacity of the panel supports is not considered in this table
4. Please contact Metl-Span Engineering for additional information and assistance

Table 2. Allowable Inward Loads for 26Ga/26Ga Faced LS-36 Wall Panel with L/180 Deflection Ratio^{1,2,3,4}

Thickness	# of Spans	Support Spacing (ft)							
		3	4	5	6	8	10	12	14
1.5	1	135	85	61	48	34	21	13	9
	2	61	46	36	30	23	18	15	13
	3+	62	46	37	31	23	18	15	13
2	1	167	107	78	61	43	31	20	13
	2	81	60	48	40	30	24	20	17
	3+	81	61	48	40	30	24	20	17
2.5	1	199	128	95	75	53	41	27	19
	2	100	75	60	50	37	29	24	21
	3+	100	75	60	50	37	30	25	21
3	1	238	155	114	91	64	50	35	24
	2	124	93	74	61	46	36	30	25
	3+	123	92	73	61	46	36	30	26
4	1	284	189	141	113	81	63	51	38
	2	161	122	97	80	59	47	39	33
	3+	159	119	94	79	59	47	39	34
5	1	340	226	169	135	96	75	61	49
	2	194	147	118	98	72	57	47	40
	3+	192	143	113	94	70	56	47	40
6	1	365	249	189	153	110	86	71	57
	2	231	174	139	115	85	67	55	47
	3+	225	167	133	110	83	66	55	47

1. Based on Allowable Stress Design (ASD). No factor has been applied for loads limited by deflection.
2. Allowable inward loads shown in this table are based on the lowest value of panel wrinkling, shear and deflection ratio limits
3. Structural capacity of the panel supports is not considered in this table
4. Please contact Metl-Span Engineering for additional information and assistance

Table 3. Allowable Inward Loads for 24Ga/26Ga Faced LS-36 Wall Panel with L/120 Deflection Ratio^{1,2,3,4}

Thickness	# of Spans	Support Spacing (ft)							
		3	4	5	6	8	10	12	14
1.5	1	152	93	66	51	35	27	22	15
	2	62	46	37	31	23	18	15	13
	3+	63	47	38	31	23	19	16	13
2	1	186	115	83	65	45	34	28	23
	2	81	61	48	40	30	24	20	17
	3+	82	61	49	41	30	24	20	17
2.5	1	220	138	100	78	54	42	34	29
	2	100	75	60	50	37	29	24	21
	3+	101	75	60	50	37	30	25	21
3	1	262	165	120	94	66	51	41	35
	2	123	93	74	62	46	36	30	26
	3+	123	92	73	61	46	37	30	26
4	1	308	200	147	117	83	64	52	44
	2	160	121	97	80	59	47	39	33
	3+	159	119	95	79	59	47	39	34
5	1	346	229	171	136	97	75	61	52
	2	193	146	117	97	72	57	47	40
	3+	191	142	113	94	70	56	47	40
6	1	387	260	195	157	112	87	71	60
	2	229	173	139	115	85	67	55	47
	3+	225	167	133	111	83	66	55	47

1. Based on Allowable Stress Design (ASD). No factor has been applied for loads limited by deflection.
2. Allowable inward loads shown in this table are based on the lowest value of panel wrinkling, shear and deflection ratio limits
3. Structural capacity of the panel supports is not considered in this table
4. Please contact Metl-Span Engineering for additional information and assistance

Table 4. Allowable Inward Loads for 24Ga/26Ga Faced LS-36 Wall Panel with L/180 Deflection Ratio^{1,2,3,4}

Thickness	# of Spans	Support Spacing (ft)							
		3	4	5	6	8	10	12	14
1.5	1	152	93	66	51	35	24	15	10
	2	62	46	37	31	23	18	15	13
	3+	63	47	38	31	23	19	16	13
2	1	186	115	83	65	45	34	22	15
	2	81	61	48	40	30	24	20	17
	3+	82	61	49	41	30	24	20	17
2.5	1	220	138	100	78	54	42	30	21
	2	100	75	60	50	37	29	24	21
	3+	101	75	60	50	37	30	25	21
3	1	262	165	120	94	66	51	38	27
	2	123	93	74	62	46	36	30	26
	3+	123	92	73	61	46	37	30	26
4	1	308	200	147	117	83	64	52	42
	2	160	121	97	80	59	47	39	33
	3+	159	119	95	79	59	47	39	34
5	1	346	229	171	136	97	75	61	52
	2	193	146	117	97	72	57	47	40
	3+	191	142	113	94	70	56	47	40
6	1	387	260	195	157	112	87	71	60
	2	229	173	139	115	85	67	55	47
	3+	225	167	133	111	83	66	55	47
1. Based on Allowable Stress Design (ASD). No factor has been applied for loads limited by deflection. 2. Allowable inward loads shown in this table are based on the lowest value of panel wrinkling, shear and deflection ratio limits 3. Structural capacity of the panel supports is not considered in this table 4. Please contact Mett-Span Engineering for additional information and assistance									

Table 5. Allowable Outward Loads for 26Ga/26Ga Faced LS-36 Wall Panel with 12 Ga. Supports and L/120 Deflection Ratio^{1,2,3,4}

Thickness	# of Spans	Support Spacing (ft)							
		3	4	5	6	8	10	12	14
1.5	1	122	85	61	48	34	26	20	13
	2	59	45	36	29	22	18	15	12
	3+	62	46	37	31	23	18	15	13
2	1	139	104	78	61	43	33	27	20
	2	68	51	41	34	25	20	17	14
	3+	75	56	45	37	28	22	19	16
2.5	1	155	116	93	75	53	41	33	26
	2	77	58	46	38	28	23	19	16
	3+	84	63	50	42	31	25	21	18
3	1	171	129	103	86	64	50	40	30
	2	86	65	52	43	32	25	21	18
	3+	93	70	56	46	35	28	23	20
4	1	175	131	105	87	66	52	44	37
	2	88	67	53	44	33	26	21	18
	3+	94	70	56	47	35	28	23	20
5	1	179	134	107	89	67	54	45	38
	2	90	68	55	45	34	26	22	19
	3+	96	72	57	48	36	28	24	20
6	1	181	136	108	90	68	54	45	39
	2	92	69	55	46	34	27	22	19
	3+	97	72	57	48	36	29	24	20
1. Based on Allowable Stress Design (ASD). No factor has been applied for loads limited by deflection. 2. Allowable outward loads shown in this table are based on the lowest value of panel wrinkling, shear, deflection ratio and fastener limits 3. Structural capacity of the panel supports is not considered in this table 4. Please contact Metl-Span Engineering for additional information and assistance									

Table 6. Allowable Outward Loads for 26Ga/26Ga Faced LS-36 Wall Panel
with 12 Ga. Supports and L/180 Deflection Ratio^{1,2,3,4}

Thickness	# of Spans	Support Spacing (ft)							
		3	4	5	6	8	10	12	14
1.5	1	122	85	61	48	34	21	13	9
	2	59	45	36	29	22	18	15	12
	3+	62	46	37	31	23	18	15	13
2	1	139	104	78	61	43	31	20	13
	2	68	51	41	34	25	20	17	14
	3+	75	56	45	37	28	22	19	16
2.5	1	155	116	93	75	53	41	27	19
	2	77	58	46	38	28	23	19	16
	3+	84	63	50	42	31	25	21	18
3	1	171	129	103	86	64	50	35	24
	2	86	65	52	43	32	25	21	18
	3+	93	70	56	46	35	28	23	20
4	1	175	131	105	87	66	52	44	37
	2	88	67	53	44	33	26	21	18
	3+	94	70	56	47	35	28	23	20
5	1	179	134	107	89	67	54	45	38
	2	90	68	55	45	34	26	22	19
	3+	96	72	57	48	36	28	24	20
6	1	181	136	108	90	68	54	45	39
	2	92	69	55	46	34	27	22	19
	3+	97	72	57	48	36	29	24	20
1. Based on Allowable Stress Design (ASD). No factor has been applied for loads limited by deflection. 2. Allowable outward loads shown in this table are based on the lowest value of panel wrinkling, shear, deflection ratio and fastener limits 3. Structural capacity of the panel supports is not considered in this table 4. Please contact Metl-Span Engineering for additional information and assistance									

Table 7. Allowable Outward Loads for 24Ga/26Ga Faced LS-36 Wall Panel with 12 Ga. Supports and L/120 Deflection Ratio^{1,2,3,4}

Thickness	# of Spans	Support Spacing (ft)							
		3	4	5	6	8	10	12	14
1.5	1	147	93	66	51	35	27	22	15
	2	62	46	37	31	23	18	15	13
	3+	63	47	38	31	23	19	16	13
2	1	155	115	83	65	45	34	28	23
	2	81	61	48	40	30	24	20	17
	3+	82	61	49	41	30	24	20	17
2.5	1	163	123	98	78	54	42	34	26
	2	92	69	55	46	34	27	22	19
	3+	101	75	60	50	37	30	25	21
3	1	172	129	103	86	65	51	41	30
	2	100	75	60	50	37	29	24	21
	3+	109	81	65	54	41	32	27	23
4	1	187	140	112	93	70	56	47	37
	2	109	82	66	55	40	32	26	22
	3+	117	87	70	58	44	35	29	25
5	1	207	155	124	103	78	62	52	44
	2	120	91	72	60	44	35	29	25
	3+	128	95	76	63	47	38	32	27
6	1	217	163	130	108	81	65	54	46
	2	126	95	76	63	47	37	30	26
	3+	133	99	79	66	49	39	33	28
1. Based on Allowable Stress Design (ASD). No factor has been applied for loads limited by deflection. 2. Allowable outward loads shown in this table are based on the lowest value of panel wrinkling, shear, deflection ratio and fastener limits 3. Structural capacity of the panel supports is not considered in this table 4. Please contact Metl-Span Engineering for additional information and assistance									

Table 8. Allowable Outward Loads for 24Ga/26Ga Faced LS-36 Wall Panel
with 12 Ga. Supports and L/180 Deflection Ratio^{1,2,3,4}

Thickness	# of Spans	Support Spacing (ft)							
		3	4	5	6	8	10	12	14
1.5	1	147	93	66	51	35	24	15	10
	2	62	46	37	31	23	18	15	13
	3+	63	47	38	31	23	19	16	13
2	1	155	115	83	65	45	34	22	15
	2	81	61	48	40	30	24	20	17
	3+	82	61	49	41	30	24	20	17
2.5	1	163	123	98	78	54	42	30	21
	2	92	69	55	46	34	27	22	19
	3+	101	75	60	50	37	30	25	21
3	1	172	129	103	86	65	51	38	27
	2	100	75	60	50	37	29	24	21
	3+	109	81	65	54	41	32	27	23
4	1	187	140	112	93	70	56	47	37
	2	109	82	66	55	40	32	26	22
	3+	117	87	70	58	44	35	29	25
5	1	207	155	124	103	78	62	52	44
	2	120	91	72	60	44	35	29	25
	3+	128	95	76	63	47	38	32	27
6	1	217	163	130	108	81	65	54	46
	2	126	95	76	63	47	37	30	26
	3+	133	99	79	66	49	39	33	28
- Based on Allowable Stress Design (ASD). No factor has been applied for loads limited by deflection. - Allowable outward loads shown in this table are based on the lowest value of panel wrinkling, shear, deflection ratio and fastener limits - Structural capacity of the panel supports is not considered in this table - Please contact Metl-Span Engineering for additional information and assistance									

Table 9. Allowable Outward Loads for 26Ga/26Ga Faced LS-36 Wall Panel
with 14 Ga Supports, 6 Fasteners per Support and L/120 Deflection Ratio^{1,2,3,4}

Thickness	# of Spans	Support Spacing (ft)							
		3	4	5	6	8	10	12	14
1.5	1	135	85	61	48	34	26	20	13
	2	61	46	36	30	23	18	15	13
	3+	62	46	37	31	23	18	15	13
2	1	167	107	78	61	43	33	27	20
	2	81	60	48	40	30	24	20	17
	3+	81	61	48	40	30	24	20	17
2.5	1	199	128	95	75	53	41	33	26
	2	100	75	60	50	37	29	24	21
	3+	100	75	60	50	37	30	25	21
3	1	238	155	114	91	64	50	40	30
	2	124	93	74	61	46	36	30	25
	3+	123	92	73	61	46	36	30	26
4	1	284	189	141	113	81	63	51	37
	2	161	122	97	80	59	47	39	33
	3+	159	119	94	79	59	47	39	34
5	1	340	226	169	135	96	75	61	45
	2	180	136	109	91	67	53	44	37
	3+	192	143	113	94	70	56	47	40
6	1	361	249	189	153	110	86	70	51
	2	184	139	111	92	68	53	44	37
	3+	193	144	115	96	72	57	48	41
- Based on Allowable Stress Design (ASD). No factor has been applied for loads limited by deflection. - Allowable outward loads shown in this table are based on the lowest value of panel wrinkling, shear, deflection ratio and fastener limits - Structural capacity of the panel supports is not considered in this table - Please contact Metl-Span Engineering for additional information and assistance									

Table 10. Allowable Outward Loads for 26Ga/26Ga Faced LS-36 Wall Panel with 14 Ga. Supports, 6 Fasteners per Support and L/180 Deflection Ratio^{1,2,3,4}

Thickness	# of Spans	Support Spacing (ft)							
		3	4	5	6	8	10	12	14
1.5	1	135	85	61	48	34	21	13	9
	2	61	46	36	30	23	18	15	13
	3+	62	46	37	31	23	18	15	13
2	1	167	107	78	61	43	31	20	13
	2	81	60	48	40	30	24	20	17
	3+	81	61	48	40	30	24	20	17
2.5	1	199	128	95	75	53	41	27	19
	2	100	75	60	50	37	29	24	21
	3+	100	75	60	50	37	30	25	21
3	1	238	155	114	91	64	50	35	24
	2	124	93	74	61	46	36	30	25
	3+	123	92	73	61	46	36	30	26
4	1	284	189	141	113	81	63	51	37
	2	161	122	97	80	59	47	39	33
	3+	159	119	94	79	59	47	39	34
5	1	340	226	169	135	96	75	61	45
	2	180	136	109	91	67	53	44	37
	3+	192	143	113	94	70	56	47	40
6	1	361	249	189	153	110	86	70	51
	2	184	139	111	92	68	53	44	37
	3+	193	144	115	96	72	57	48	41
- Based on Allowable Stress Design (ASD). No factor has been applied for loads limited by deflection. - Allowable outward loads shown in this table are based on the lowest value of panel wrinkling, shear, deflection ratio and fastener limits - Structural capacity of the panel supports is not considered in this table - Please contact Metl-Span Engineering for additional information and assistance									

Table 11. Allowable Outward Loads for 24Ga/26Ga Faced LS-36 Wall Panel with 14 Ga. Supports, 6 Fasteners per Support and L/120 Deflection Ratio^{1,2,3,4}

Thickness	# of Spans	Support Spacing (ft)							
		3	4	5	6	8	10	12	14
1.5	1	152	93	66	51	35	27	22	15
	2	62	46	37	31	23	18	15	13
	3+	63	47	38	31	23	19	16	13
2	1	186	115	83	65	45	34	28	23
	2	81	61	48	40	30	24	20	17
	3+	82	61	49	41	30	24	20	17
2.5	1	220	138	100	78	54	42	34	26
	2	100	75	60	50	37	29	24	21
	3+	101	75	60	50	37	30	25	21
3	1	262	165	120	94	66	51	41	30
	2	123	93	74	62	46	36	30	26
	3+	123	92	73	61	46	37	30	26
4	1	308	200	147	117	83	64	51	37
	2	160	121	97	80	59	47	39	33
	3+	159	119	95	79	59	47	39	34
5	1	346	229	171	136	97	75	61	45
	2	193	146	117	97	72	57	47	40
	3+	191	142	113	94	70	56	47	40
6	1	387	260	195	157	112	87	70	51
	2	229	173	139	115	85	67	55	47
	3+	212	158	126	105	79	63	52	45

1. Based on Allowable Stress Design (ASD). No factor has been applied for loads limited by deflection.
2. Allowable outward loads shown in this table are based on the lowest value of panel wrinkling, shear, deflection ratio and fastener limits
3. Structural capacity of the panel supports is not considered in this table
4. Please contact Metl-Span Engineering for additional information and assistance

Table 12. Allowable Outward Loads for 24Ga/26Ga Faced LS-36 Wall Panel with 14 Ga. Supports, 6 Fasteners per Support and L/180 Deflection Ratio^{1,2,3,4}

Thickness	# of Spans	Support Spacing (ft)							
		3	4	5	6	8	10	12	14
1.5	1	152	93	66	51	35	24	15	10
	2	62	46	37	31	23	18	15	13
	3+	63	47	38	31	23	19	16	13
2	1	186	115	83	65	45	34	22	15
	2	81	61	48	40	30	24	20	17
	3+	82	61	49	41	30	24	20	17
2.5	1	220	138	100	78	54	42	30	21
	2	100	75	60	50	37	29	24	21
	3+	101	75	60	50	37	30	25	21
3	1	262	165	120	94	66	51	38	27
	2	123	93	74	62	46	36	30	26
	3+	123	92	73	61	46	37	30	26
4	1	308	200	147	117	83	64	51	37
	2	160	121	97	80	59	47	39	33
	3+	159	119	95	79	59	47	39	34
5	1	346	229	171	136	97	75	61	45
	2	193	146	117	97	72	57	47	40
	3+	191	142	113	94	70	56	47	40
6	1	387	260	195	157	112	87	70	51
	2	229	173	139	115	85	67	55	47
	3+	212	158	126	105	79	63	52	45
1. Based on Allowable Stress Design (ASD). No factor has been applied for loads limited by deflection. 2. Allowable outward loads shown in this table are based on the lowest value of panel wrinkling, shear, deflection ratio and fastener limits 3. Structural capacity of the panel supports is not considered in this table 4. Please contact Metl-Span Engineering for additional information and assistance									

Table 13. Allowable Outward Loads for 26Ga/26Ga Faced LS-36 Wall Panel
with 16 Ga. Supports and L/120 Deflection Ratio^{1,2,3,4}

Thickness	# of Spans	Support Spacing (ft)							
		3	4	5	6	8	10	12	14
1.5	1	122	85	61	48	34	26	20	13
	2	59	45	36	29	22	18	15	12
	3+	62	46	37	31	23	18	15	13
2	1	139	104	78	61	43	33	27	20
	2	68	51	41	34	25	20	17	14
	3+	75	56	45	37	28	22	19	16
2.5	1	155	116	93	75	53	41	33	26
	2	77	58	46	38	28	23	19	16
	3+	84	63	50	42	31	25	21	18
3	1	171	129	103	86	64	50	40	30
	2	78	59	47	39	29	23	19	16
	3+	84	63	50	42	31	25	21	18
4	1	175	131	105	87	66	52	44	37
	2	79	60	48	39	29	23	19	16
	3+	84	63	50	42	31	25	21	18
5	1	179	134	107	89	67	54	45	38
	2	80	60	48	40	30	23	19	16
	3+	85	63	51	42	31	25	21	18
6	1	181	136	108	90	68	54	45	39
	2	81	61	49	40	30	23	19	16
	3+	85	63	51	42	31	25	21	18
- Based on Allowable Stress Design (ASD). No factor has been applied for loads limited by deflection. - Allowable outward loads shown in this table are based on the lowest value of panel wrinkling, shear, deflection ratio and fastener limits - Structural capacity of the panel supports is not considered in this table - Please contact Metl-Span Engineering for additional information and assistance									

Table 14. Allowable Outward Loads for 26Ga/26Ga Faced LS-36 Wall Panel
with 16 Ga. Supports and L/180 Deflection Ratio^{1,2,3,4}

Thickness	# of Spans	Support Spacing (ft)							
		3	4	5	6	8	10	12	14
1.5	1	122	85	61	48	34	21	13	9
	2	59	45	36	29	22	18	15	12
	3+	62	46	37	31	23	18	15	13
2	1	139	104	78	61	43	31	20	13
	2	68	51	41	34	25	20	17	14
	3+	75	56	45	37	28	22	19	16
2.5	1	155	116	93	75	53	41	27	19
	2	77	58	46	38	28	23	19	16
	3+	84	63	50	42	31	25	21	18
3	1	171	129	103	86	64	50	35	24
	2	78	59	47	39	29	23	19	16
	3+	84	63	50	42	31	25	21	18
4	1	175	131	105	87	66	52	44	37
	2	79	60	48	39	29	23	19	16
	3+	84	63	50	42	31	25	21	18
5	1	179	134	107	89	67	54	45	38
	2	80	60	48	40	30	23	19	16
	3+	85	63	51	42	31	25	21	18
6	1	181	136	108	90	68	54	45	39
	2	81	61	49	40	30	23	19	16
	3+	85	63	51	42	31	25	21	18
1. Based on Allowable Stress Design (ASD). No factor has been applied for loads limited by deflection. 2. Allowable outward loads shown in this table are based on the lowest value of panel wrinkling, shear, deflection ratio and fastener limits 3. Structural capacity of the panel supports is not considered in this table 4. Please contact Metl-Span Engineering for additional information and assistance									

Table 15. Allowable Outward Loads for 24Ga/26Ga Faced LS-36 Wall Panel with 16 Ga. Supports and L/120 Deflection Ratio^{1,2,3,4}

Thickness	# of Spans	Support Spacing (ft)							
		3	4	5	6	8	10	12	14
1.5	1	147	93	66	51	35	27	22	15
	2	62	46	37	31	23	18	15	13
	3+	63	47	38	31	23	19	16	13
2	1	155	115	83	65	45	34	28	23
	2	77	57	46	38	28	23	19	16
	3+	82	61	49	41	30	24	20	17
2.5	1	163	123	98	78	54	42	34	26
	2	77	58	46	38	29	23	19	16
	3+	84	63	50	42	31	25	21	18
3	1	172	129	103	86	65	51	41	30
	2	78	59	47	39	29	23	19	16
	3+	84	63	50	42	31	25	21	18
4	1	184	138	110	92	69	55	46	37
	2	79	59	47	39	29	23	19	16
	3+	85	63	50	42	31	25	21	18
5	1	184	138	110	92	69	55	46	39
	2	79	60	48	40	30	23	19	16
	3+	85	63	50	42	31	25	21	18
6	1	184	138	110	92	69	55	46	39
	2	80	61	49	40	30	23	19	16
	3+	85	63	51	42	31	25	21	18
1. Based on Allowable Stress Design (ASD). No factor has been applied for loads limited by deflection. 2. Allowable outward loads shown in this table are based on the lowest value of panel wrinkling, shear, deflection ratio and fastener limits 3. Structural capacity of the panel supports is not considered in this table 4. Please contact Metl-Span Engineering for additional information and assistance									

Table 16. Allowable Outward Loads for 24Ga/26Ga Faced LS-36 Wall Panel
with 16 Ga. Supports and L/180 Deflection Ratio^{1,2,3,4}

Thickness	# of Spans	Support Spacing (ft)							
		3	4	5	6	8	10	12	14
1.5	1	147	93	66	51	35	24	15	10
	2	62	46	37	31	23	18	15	13
	3+	63	47	38	31	23	19	16	13
2	1	155	115	83	65	45	34	22	15
	2	77	57	46	38	28	23	19	16
	3+	82	61	49	41	30	24	20	17
2.5	1	163	123	98	78	54	42	30	21
	2	77	58	46	38	29	23	19	16
	3+	84	63	50	42	31	25	21	18
3	1	172	129	103	86	65	51	38	27
	2	78	59	47	39	29	23	19	16
	3+	84	63	50	42	31	25	21	18
4	1	184	138	110	92	69	55	46	37
	2	79	59	47	39	29	23	19	16
	3+	85	63	50	42	31	25	21	18
5	1	184	138	110	92	69	55	46	39
	2	79	60	48	40	30	23	19	16
	3+	85	63	50	42	31	25	21	18
6	1	184	138	110	92	69	55	46	39
	2	80	61	49	40	30	23	19	16
	3+	85	63	51	42	31	25	21	18

- Based on Allowable Stress Design (ASD). No factor has been applied for loads limited by deflection.
- Allowable outward loads shown in this table are based on the lowest value of panel wrinkling, shear, deflection ratio and fastener limits
- Structural capacity of the panel supports is not considered in this table
- Please contact Metl-Span Engineering for additional information and assistance

This panel is not currently available for use in High-Velocity Hurricane Zones (HVHZ).

DrJ's procedures are fully compliant with the ISO/IEC 17065 certification process and DrJ's scope of expertise.



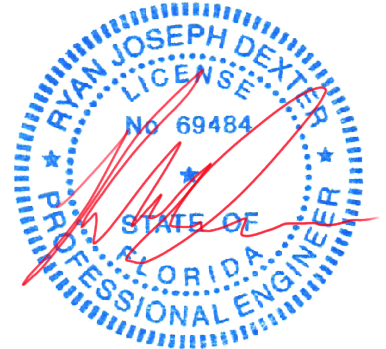
If there are any additional questions or concerns, we will gladly provide a Florida professional engineering¹ and ANAB ISO/IEC 17065 accredited² approved agency response. Pursuant to the 2023 FBC Code Section 1707.1³ we would sincerely appreciate knowing the specific sections of the adopted building code and/or professional engineering law that this engineering evaluation does not comply with so that we can cure any non-compliance. From specifics, we can then delineate a path forward for everyone involved to cure any violations, as this will serve everyone's free and fair market competition's best interests.

Our goal with the foregoing analysis is to provide both the accepted engineering analysis and regulatory compliance substance to support a systematic path to approval. Please contact us if we can help further in any way. If your request is time-sensitive, please contact Jill Zimmerman at (920) 988-7165. Thank you very much.

Respectfully yours,

Chris Scoville
Vice President Product Certification
608-310-6720

Ryan Dexter, P.E.
Florida P.E. No. 69484
Vice President
608-310-6744



December 19, 2024

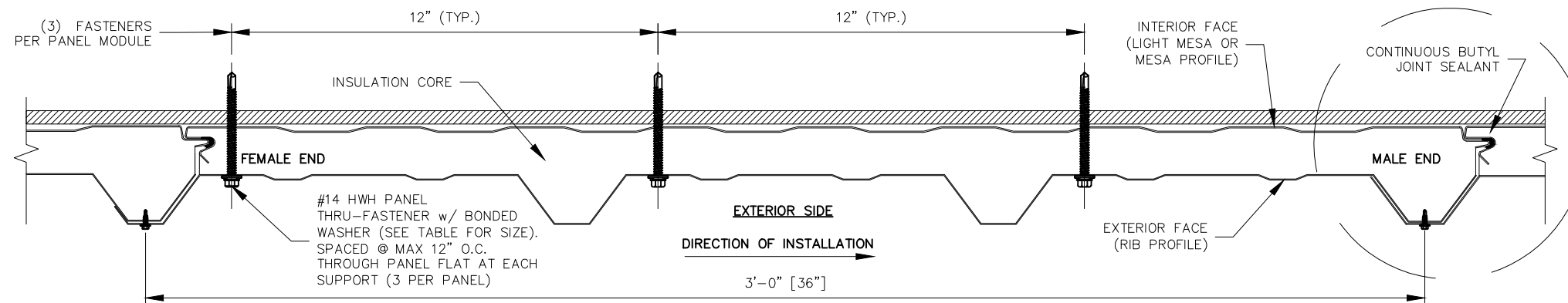
Ryan Dexter

Digitally signed by Ryan Dexter
DN: C=US,
E=rdexter@drjengineering.org,
CN=Ryan Dexter
Date: 2024.12.19 16:18:38-06'00'

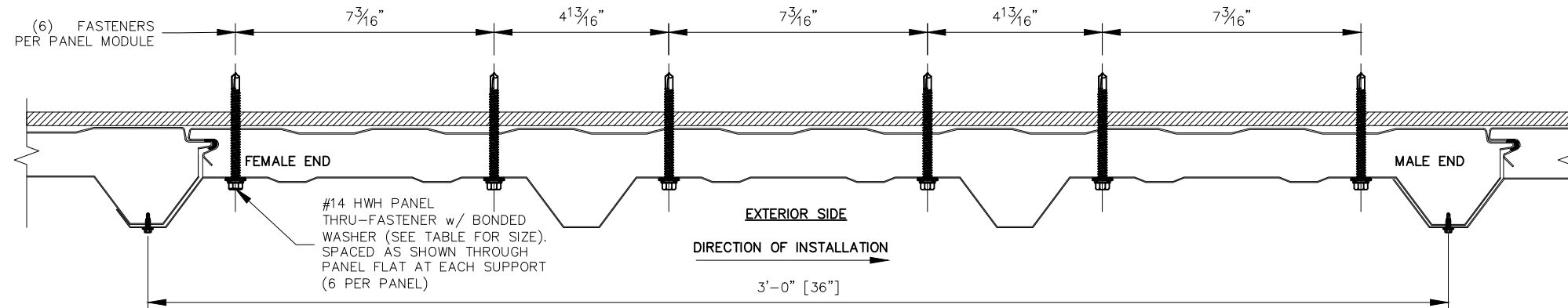
¹ **Approved Source.** An independent person, firm or corporation, approved by the building official, who is competent and experienced in the application of engineering principles to materials, methods or systems analyses. https://up.codes/viewer/florida/fl-building-code-2023/chapter/2/definitions#approved_source

² **Approved Agency.** An established and recognized agency that is regularly engaged in conducting tests, furnishing inspection services or furnishing product certification where such agency has been approved by the building official. https://up.codes/viewer/florida/fl-building-code-2023/chapter/2/definitions#approved_agency

³ In the absence of approved rules or other approved standards, the building official shall make, or cause to be made, the necessary tests and investigations; or the building official shall accept duly authenticated reports from approved agencies in respect to the quality and manner of use of new materials or assemblies. The cost of all tests and other investigations required under the provisions of this code shall be borne by the owner or the owner's authorized agent.



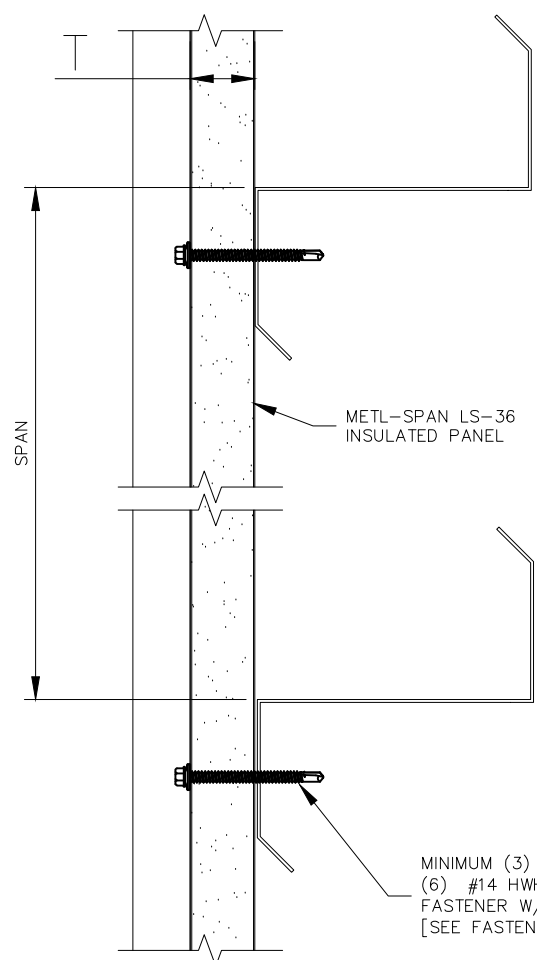
STANDARD WALL PANEL INSTALLATION CROSS SECTION



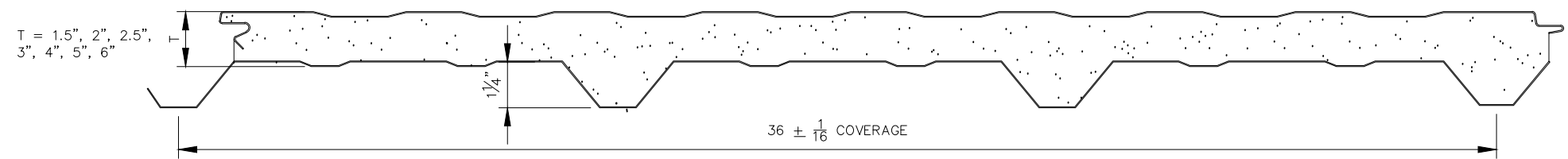
OPTIONAL (6) FASTENER PATTERN

FASTENER REQUIREMENTS

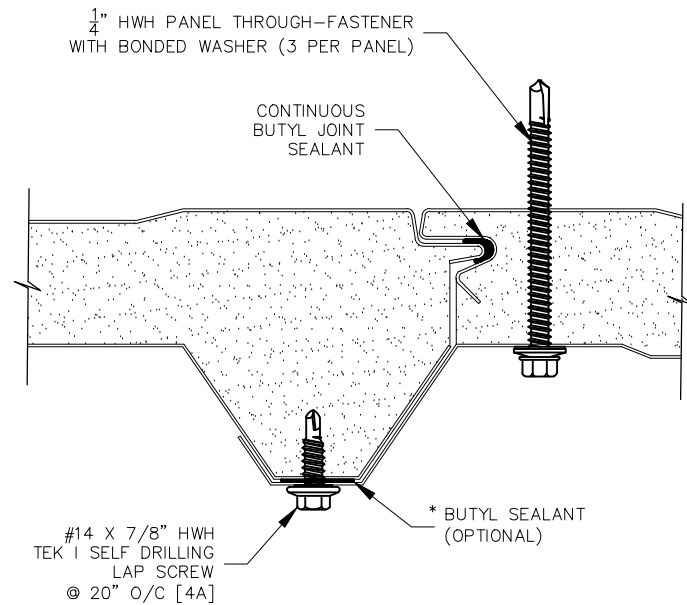
- STANDARD #14 x 7/8\"/>
 - STANDARD 1/4-14 HWH CS TYPE 3 SELF-DRILLER W/BONDED WASHER (0.017\"/>
 - OPTIONAL 1/4-20 HWH CS TYPE 3 SELF-DRILLER W/BONDED WASHER (0.017\"/>
 - OPTIONAL 1/4-14 HWH CS TYPE 8 SELF-TAPPER W/BONDED WASHER (PILDT AS REQ'D FOR SUBSTRATE)
 - OPTIONAL 1/4-14 HWH SS TYPE 8 SELF-TAPPER W/BONDED WASHER (PILDT AS REQ'D FOR SUBSTRATE)
- PERMITTED FASTENERS FOR LS-36**
STANDARD FASTENER LENGTH IS PANEL THICKNESS + 1-INCH; OTHER CONDITIONS MAY REQUIRE LONGER LENGTHS TO ENSURE (3) FULL THREADS EXPOSED BEYOND SUBSTRATE



SECTION VIEW



LS-36 PANEL



DETAIL 1

GENERAL NOTES:

- 1.) THE LS-36 STRUCTURAL WALL PANEL SYSTEM HAS BEEN DESIGNED IN ACCORDANCE WITH FLORIDA BUILDING CODE (FBC) FOR ALLOWABLE STRESS DESIGN (ASD). THE DESIGN PRESSURES AS DETERMINED FROM SECTION 1609 AND ASCE 7 MUST BE MULTIPLIED BY 0.6.
- 2.) REQUIRED DESIGN WIND LOADS SHALL BE DETERMINED FOR EACH PROJECT. THIS PANEL SYSTEM MAY NOT BE INSTALLED WHEN THE REQUIRED DESIGN WIND LOADS ARE GREATER THAN THE ALLOWABLE WIND LOADS ASSOCIATED TO A SPECIFIC SPAN INDICATED IN THE LOAD SPAN TABLES.
- 3.) PANELS SHALL BE INSTALLED OVER A MINIMUM 16 GAGE (MIN. 0.059\"/>
- 4.) PANELS MUST BE INSTALLED OVER A MINIMUM 2 SUPPORTS. PANEL END LAPS MAY BE LOCATED AT MINIMUM 4-INCH WIDE SUPPORTS TO PERMIT EACH PANEL END TO BE INDEPENDENTLY FASTENED, FLASHED AND PROPERLY SEALED PER METL-SPAN STANDARD DETAILS AND SPECIFICATIONS.
- 5.) LS-36 SANDWICH PANELS ARE 36\"/>
- 6.) ALL PANEL FASTENING SHALL BE MADE WITH CORROSION RESISTANT SCREWS.
- 7.) LS-36 WALL PANELS SHALL NOT BE CONSIDERED VIABLE FOR SHEAR TRANSFER OR DIAPHRAGM ACTION TO ADD STABILITY TO THE PRIMARY BUILDING FRAME.

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WWW.METLSPAN.COM



PROJECT: LS-36 Wall Panel
Florida Product
Installation Standard

PROJECT:

REVISION	DATE

REVISION	DATE

DRAWN BY: MJK	CHECKED BY:	DATE: Feb 2024	SCALE: AS NOTED
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PROJECT NUMBER:

SHEET:

LS-1