Amoruso Consulting Engineering, LLC
FBPE Registration No. 38327
Robert J. Amoruso, FL P.E. No. 49752

226 N. Nova Rd., #142
Ormond Beach, FL 32174
rjaengpe@gmail.com

PRODUCT EVALUATION REPORT	
Project No.: ACE-2026-157	**Report No.:** ACE-PER-1143, Rev. 1

Product Description: MR3-36 Exposed Fastener Metal Wall Panel

Product Manufacturer: Centria, 700 State Highway 121 Bypass, Suite 200, Lewisville, TX 75067

Code: Current Edition of the Florida Building Code including the 9th Edition (2026) Florida Building Code

Compliance Method: Product Approval Rule 61G20-3.005(1)(d) – Product Evaluation Report by a Licensed Professional Engineer

Product Category/Sub-Category: Structural Components/Structural Wall

SCOPE: Evaluate CENTRIA's MR3-36 Exposed Fastener Metal Wall Panel for conformance to the 9th Edition (2026) Florida Building Code excluding the High Velocity Hurricane Zone (HVHZ).

DESCRIPTION OF PRODUCT – INSTALLATION REQUIREMENTS:

See Reference 1 for a description of the product, its installation and other pertinent data related to its approved use.

CODE CONFORMANCE:

The 9th Edition (2026) Florida Building Code (FBC) requirements specific to this product that have been met by engineering evaluation (Reference 2.a) and depicted on the manufacturer's installation drawings (Reference 1) are the following.

- 1403.3 Exterior Walls – Wind Resistance
- 1404.5 Exterior Walls – Metal
- Table 1405.2 Minimum Thickness of Weather Coverings
    - Steel must meet or exceed 0.0149" in thickness.
- 1405.17 Exterior Walls - Fasteners
- Table 1604.3 Deflection Limits
    - Exterior Walls/Flexible Finishes, deflection for wind loading limited to L/120.
- 1609 Wind Loads
- 2210.1 Cold-Formed Steel, General

The engineering evaluation (Reference 2.a) is based on AISI S100-07/S2-10, North American Specification for the Design of Cold-formed Steel Structural Members. The engineering evaluation determines Wind Pressure Loading in PSF. Safety factors are as prescribed in AISI S100-07/S2-10. Fastener allowable is based on a safety factor of 3. Deflection limitation based on L/120.

See ACE-EER-1143 (Reference 2.b) for equivalency evaluation of AISI S100-07/S2-10.

LIMITATIONS AND CONDITIONS OF USE:

This product evaluation report contains or refers to specifications, technical details and installation details and/or methods that pertain to the proper use and/or installation of the product specified herein. Specific limitations and conditions of its use, including but not limited to the following, are contained in Reference 1 and are the subject of Product Approval in accordance with the State of Florida Product Approval Rule 61G20-3.

- Design Pressure Rating (psf)
- Installation substrate requirements.
- Installation anchor requirements.
- Installation restrictions.
- Product description.
- Product components.

REFERENCES & SUPPORTING DOCUMENTS:

1) Manufacturer's Installation Instructions:
   a) MR3-36 Exposed Fastener Metal Wall Panel Installation Drawing, Signed and Sealed by Robert J. Amoruso, P.E.
   b) Horizontal Exposed Fastener Installation Details, Signed and Sealed by Robert J. Amoruso, P.E.
   c) Vertical Exposed Fastener Installation Details, Signed and Sealed by Robert J. Amoruso, P.E.
2) Reports and Calculations
   a) Report No. ACE-PER-1143, Appendix 2 and 3, Panel Span Analysis for Centria Exposed Fastener Metal Wall Panels to AISI S100-07/S2-10, Signed and Sealed by Robert J. Amoruso, P.E.
   b) Panel Span Analysis for Centria Exposed Fastener Metal Wall Panels to AISI S100-07/S2-10, Signed and Sealed by Robert J. Amoruso, P.E.
   c) Report No. ACE-EER-1143, Equivalency Evaluation Report for Centria Exposed Fastener Metal Wall Panels, Signed and Sealed by Robert J. Amoruso, P.E
      i) EER evaluates AISI S100-07/S2-10 used in Ref. 2.a above as compared to AISI S100-16(2020) w/S2-20 (9th Edition FBC).
3) 9th Edition (2026) Florida Building Code (FBC), Building Volume
   a) 1403.3 Exterior Walls – Wind Resistance
   b) 1404.5 Exterior Walls – Metal
   c) Table 1405.2 Minimum Thickness of Weather Coverings
      i) Steel must meet or exceed 0.0149" in thickness.
   d) 1405.17 Exterior Walls - Fasteners
   e) Table 1604.3 Deflection Limits
      i) Exterior Walls/Flexible Finishes, deflection for wind loading limited to L/120.
   f) 1609 Wind Loads
   g) 2210.1 Cold-Formed Steel, General
4) Standards (used in design)
   a) AISI S100-07/S2-10, North American Specification for the Design of Cold-formed Steel Structural Members

APPENDICES:

- Appendix 1: MR3-36 Exposed Fastener Metal Wall Panel Drawing, Section Properties, Configuration and Fastener Requirements, 1 sheet
- Appendix 2: MR3-36 Exposed Fastener Metal Wall Panel Load/Span Tables with 3/16" Girts, 4 Sheets
- Appendix 3: MR3-36 Exposed Fastener Metal Wall Panel Load/Span Tables with 16 GA. Girts, 4 Sheets

Certificate of Independence per Product Approval Rule 61G20-3.009

Robert J. Amoruso, P.E., does not have, nor will he acquire, any financial interest in the company manufacturing or distributing product(s) covered by this Product Evaluation Report.

Robert J. Amoruso, P.E., does not have, nor will he acquire any financial interest in any other entity involved in the approval process or testing of the product(s) covered by this Product Evaluation Report.

Digitally signed by Robert J Amoruso
Date: 2026.09.22 14:12:52 -04'00'

Evaluated by:
Robert J. Amoruso, P.E.
FL P.E. License No. 49752

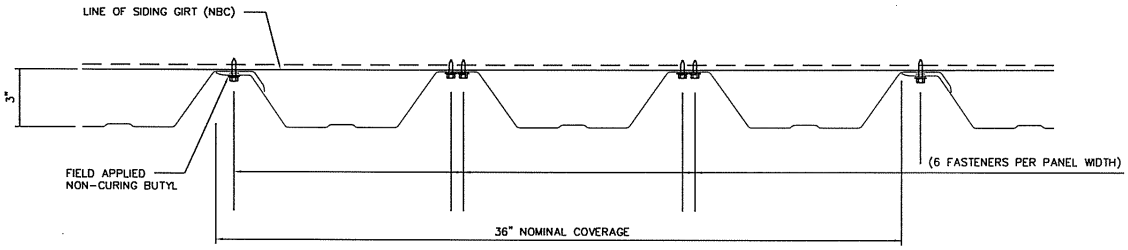
APPENDIX 1

MR3-36 Exposed Fastener Metal Wall Panel Drawing, Section Properties, Configuration and Fastener Requirements

- Panel Material with a Minimum Yield Strength = 37 ksi
  - ASTM A 653/A 653M - Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
- Panel Configuration
  - 36" effective width with 3 ribs, each 3" high.
  - thicknesses
    - 24 gage (0.024")
    - 22 gage (0.030")
    - 20 gage (0.036")
    - 18 gage (0.049")
- Panel Installation Fasteners
  - ¼" diameter (equivalent to #14) Sheet Metal Screws with 5/8" diameter combination washers.
  - Six screws are installed per panel at each support.

MR3-36 Exposed Fastener Metal Wall Panel Section Properties			
Thickness (GA.)	**Minimum Ix (in^4/ft)**	**Minimum Sx (in^3/ft)**	**Weight (psf)**
24	0.424	0.194	1.32
22	0.594	0.286	1.65
20	0.748	0.368	1.98
18	1.060	0.534	2.63

FASTENING SCHEDULE
(LEFT TO RIGHT ERECTION)



MR3-36
VERTICAL APPLICATION OR HORIZONTAL APPLICATION

MR3-36 SIDING / FASTENING SCHEDULE

WIND LOAD/SPAN TABLE FOR MR3-36 - 18 Ga.

CENTRIA

6 Fasteners per Panel
Safety Factor = 3.00 (Fasteners)

I_{min} = 1.060 in^4/ft
S_{min} = 0.534 in^3/ft

Deflection @ L/120
F_y = 37 ksi

Load		Single Span		Double Span		Triple Span	
20	Stress	19.88	g	19.88	g	22.22	g
psf	Defl.	19.09		25.58		23.57	
30	Stress	16.23	g	16.23	g	18.15	g
psf	Defl.	16.67		22.35		20.59	
40	Stress	14.06	g	14.06	g	15.72	g
psf	Defl.	15.15		20.30		18.71	
50	Stress	12.57	g	12.57	g	14.06	g
psf	Defl.	14.06		18.85		17.37	
60	Stress	11.48	g	11.48	g	12.83	g
psf	Defl.	13.23		17.74		16.35	
70	Stress	10.63	g	10.63	g	11.88	g
psf	Defl.	12.57		16.85		15.53	
80	Stress	9.94	g	9.94	g	11.11	g
psf	Defl.	12.02		16.12		14.85	
90	Stress	9.37	g	9.37	g	10.48	g
psf	Defl.	11.56		15.50		14.28	
100	Stress	8.89	g	8.89	g	9.94	g
psf	Defl.	11.16		14.96		13.79	

Load		Single Span		Double Span		Triple Span	
110	Stress	8.48	g	8.48	g	9.48	g
psf	Defl.	10.81		14.49		13.36	
120	Stress	8.12	g	8.12	g	9.07	g
psf	Defl.	10.50		14.08		12.97	
130	Stress	7.80	g	7.80	g	8.72	g
psf	Defl.	10.23		13.71		12.63	
140	Stress	7.51	g	7.51	g	8.40	g
psf	Defl.	9.98		13.37		12.32	
150	Stress	7.26	g	7.26	g	8.12	g
psf	Defl.	9.75		13.07		12.04	
160	Stress	7.03	g	7.03	g	7.86	g
psf	Defl.	9.54		12.79		11.79	
170	Stress	6.82	g	6.82	g	7.62	g
psf	Defl.	9.35		12.54		11.55	
180	Stress	6.63	g	6.56	b	7.41	g
psf	Defl.	9.18		12.30		11.33	
190	Stress	6.45	g	6.21	b	7.06	b
psf	Defl.	9.01		12.08		11.13	

Explanatory Notes For Load/Span Tables:

1. Numbers in the tables indicate distance in feet between adjacent structural girts.
2. Span length limitation factors:
   Stress limitation uses .6 × Fy as design stress for wind load.
   Deflection limitation uses span / 120.
3. Panel weight = 2.63 psf.
4. Load/Span tables are based on #14 fasteners with 5/8 in. ø combination washers fastened to 3/16" minimum thickness steel structural girts.
5. Key to failure modes:
   a - Fastener pullout from structural girt.
   b - Fastener pullover.
   g - Bending of panel.

12/28/12

Amoruso Consulting Engineering, LLC
FL Registration No. 38327
Robert J. Amoruso, FL P.E. No. 49752
226 N. Nova Rd., #142
Ormond Beach, FL 32174-5124
rjaengpe@gmail.com

WIND LOAD/SPAN TABLE FOR MR3-36 - 20 Ga.

CENTRIA

6 Fasteners per Panel
Safety Factor = 3.00 (Fasteners)

I_{min} = 0.748 in^4/ft
S_{min} = 0.368 in^3/ft

Deflection @ L/120
F_y = 37 ksi

Load		Single Span		Double Span		Triple Span	
20	Stress	16.50	g	16.50	g	18.45	g
psf	Defl.	16.99		22.77		20.99	
30	Stress	13.47	g	13.47	g	15.06	g
psf	Defl.	14.85		19.90		18.33	
40	Stress	11.67	g	11.67	g	13.05	g
psf	Defl.	13.49		18.08		16.66	
50	Stress	10.44	g	10.44	g	11.67	g
psf	Defl.	12.52		16.78		15.46	
60	Stress	9.53	g	9.53	g	10.65	g
psf	Defl.	11.78		15.79		14.55	
70	Stress	8.82	g	8.82	g	9.86	g
psf	Defl.	11.19		15.00		13.82	
80	Stress	8.25	g	8.25	g	9.22	g
psf	Defl.	10.71		14.35		13.22	
90	Stress	7.78	g	7.78	g	8.70	g
psf	Defl.	10.29		13.80		12.71	
100	Stress	7.38	g	7.38	g	8.25	g
psf	Defl.	9.94		13.32		12.27	

Load		Single Span		Double Span		Triple Span	
110	Stress	7.04	g	7.04	g	7.87	g
psf	Defl.	9.63		12.90		11.89	
120	Stress	6.74	g	6.74	g	7.53	g
psf	Defl.	9.35		12.53		11.55	
130	Stress	6.47	g	6.47	g	7.24	g
psf	Defl.	9.11		12.20		11.25	
140	Stress	6.24	g	6.24	g	6.97	g
psf	Defl.	8.88		11.91		10.97	
150	Stress	6.03	g	6.03	g	6.74	g
psf	Defl.	8.68		11.64		10.72	
160	Stress	5.83	g	5.83	g	6.52	g
psf	Defl.	8.50		11.39		10.49	
170	Stress	5.66	g	5.55	b	6.31	b
psf	Defl.	8.33		11.16		10.28	
180	Stress	5.50	g	5.24	b	5.96	b
psf	Defl.	8.17		10.95		10.09	
190	Stress	5.35	g	4.97	b	5.65	b
psf	Defl.	8.02		10.75		9.91	

Explanatory Notes For Load/Span Tables:

1. Numbers in the tables indicate distance in feet between adjacent structural girts.
2. Span length limitation factors:
   Stress limitation uses .6 × Fy as design stress for wind load.
   Deflection limitation uses span / 120.
3. Panel weight = 1.98 psf.
4. Load/Span tables are based on #14 fasteners with 5/8 in. ø combination washers fastened to 3/16" minimum thickness steel structural girts.
5. Key to failure modes:
   a - Fastener pullout from structural girt.
   b - Fastener pullover.
   g - Bending of panel.

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WIND LOAD/SPAN TABLE FOR MR3-36 - 22 Ga.

CENTRIA

6 Fasteners per Panel
Safety Factor = 3.00 (Fasteners)

I_{min} = 0.594 in^4/ft
S_{min} = 0.286 in^3/ft

Deflection @ L/120
F_y = 37 ksi

Load		Single Span		Double Span		Triple Span	
20	Stress	14.55	g	14.55	g	16.26	g
psf	Defl.	15.74		21.09		19.44	
30	Stress	11.88	g	11.88	g	13.28	g
psf	Defl.	13.75		18.42		16.98	
40	Stress	10.29	g	10.29	g	11.50	g
psf	Defl.	12.49		16.74		15.43	
50	Stress	9.20	g	9.20	g	10.29	g
psf	Defl.	11.60		15.54		14.32	
60	Stress	8.40	g	8.40	g	9.39	g
psf	Defl.	10.91		14.62		13.48	
70	Stress	7.78	g	7.78	g	8.69	g
psf	Defl.	10.37		13.89		12.80	
80	Stress	7.27	g	7.27	g	8.13	g
psf	Defl.	9.91		13.29		12.24	
90	Stress	6.86	g	6.86	g	7.67	g
psf	Defl.	9.53		12.78		11.77	
100	Stress	6.51	g	6.51	g	7.27	g
psf	Defl.	9.20		12.33		11.37	

Load		Single Span		Double Span		Triple Span	
110	Stress	6.20	g	6.20	g	6.94	g
psf	Defl.	8.92		11.95		11.01	
120	Stress	5.94	g	5.94	g	6.64	g
psf	Defl.	8.66		11.61		10.70	
130	Stress	5.71	g	5.71	g	6.38	g
psf	Defl.	8.43		11.30		10.41	
140	Stress	5.50	g	5.50	g	6.15	g
psf	Defl.	8.23		11.03		10.16	
150	Stress	5.31	g	5.31	g	5.94	g
psf	Defl.	8.04		10.78		9.93	
160	Stress	5.14	g	5.00	b	5.68	b
psf	Defl.	7.87		10.55		9.72	
170	Stress	4.99	g	4.71	b	5.35	b
psf	Defl.	7.71		10.33		9.52	
180	Stress	4.85	g	4.44	b	5.05	b
psf	Defl.	7.57		10.14		9.34	
190	Stress	4.72	g	4.21	b	4.78	b
psf	Defl.	7.43		9.96		9.18	

Explanatory Notes For Load/Span Tables:

1. Numbers in the tables indicate distance in feet between adjacent structural girts.
2. Span length limitation factors:
   Stress limitation uses .6 × Fy as design stress for wind load.
   Deflection limitation uses span / 120.
3. Panel weight = 1.65 psf.
4. Load/Span tables are based on #14 fasteners with 5/8 in. ø combination washers fastened to 3/16" minimum thickness steel structural girts.
5. Key to failure modes:
   a - Fastener pullout from structural girt.
   b - Fastener pullover.
   g - Bending of panel.

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WIND LOAD/SPAN TABLE FOR MR3-36 - 24 Ga.

CENTRIA

6 Fasteners per Panel
Safety Factor = 3.00 (Fasteners)

I_{min} = 0.424 in^4/ft
S_{min} = 0.194 in^3/ft

Deflection @ L/120
F_y = 37 ksi

Load		Single Span		Double Span		Triple Span	
20 psf	Stress	11.98	g	11.98	g	13.40	g
	Defl.	14.06		18.85		17.37	
30 psf	Stress	9.78	g	9.78	g	10.94	g
	Defl.	12.29		16.47		15.17	
40 psf	Stress	8.47	g	8.47	g	9.47	g
	Defl.	11.16		14.96		13.79	
50 psf	Stress	7.58	g	7.58	g	8.47	g
	Defl.	10.36		13.89		12.80	
60 psf	Stress	6.92	g	6.92	g	7.73	g
	Defl.	9.75		13.07		12.04	
70 psf	Stress	6.40	g	6.40	g	7.16	g
	Defl.	9.26		12.41		11.44	
80 psf	Stress	5.99	g	5.99	g	6.70	g
	Defl.	8.86		11.87		10.94	
90 psf	Stress	5.65	g	5.65	g	6.31	g
	Defl.	8.52		11.42		10.52	
100 psf	Stress	5.36	g	5.19	b	5.90	b
	Defl.	8.23		11.02		10.16	

Load		Single Span		Double Span		Triple Span	
110 psf	Stress	5.11	g	4.72	b	5.36	b
	Defl.	7.97		10.68		9.84	
120 psf	Stress	4.89	g	4.32	b	4.91	b
	Defl.	7.74		10.37		9.56	
130 psf	Stress	4.70	g	3.99	b	4.54	b
	Defl.	7.54		10.10		9.31	
140 psf	Stress	4.53	g	3.71	b	4.21	b
	Defl.	7.35		9.85		9.08	
150 psf	Stress	4.38	g	3.46	b	3.93	b
	Defl.	7.19		9.63		8.87	
160 psf	Stress	4.24	g	3.24	b	3.69	b
	Defl.	7.03		9.42		8.69	
170 psf	Stress	4.11	g	3.05	b	3.47	b
	Defl.	6.89		9.24		8.51	
180 psf	Stress	3.99	g	2.88	b	3.28	b
	Defl.	6.76		9.06		8.35	
190 psf	Stress	3.89	g	2.73	b	3.10	b
	Defl.	6.64		8.90		8.20	

Explanatory Notes For Load/Span Tables:

1. Numbers in the tables indicate distance in feet between adjacent structural girts.
2. Span length limitation factors:
   Stress limitation uses .6 × Fy as design stress for wind load.
   Deflection limitation uses span / 120.
3. Panel weight = 1.32 psf.
4. Load/Span tables are based on #14 fasteners with 5/8 in. ø combination washers fastened to 3/16" minimum thickness steel structural girts.
5. Key to failure modes:
   a - Fastener pullout from structural girt.
   b - Fastener pullover.
   g - Bending of panel.

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WIND LOAD/SPAN TABLE FOR MR3-36 - 18 Ga.

CENTRIA

6 Fasteners per Panel
Safety Factor = 3.00 (Fasteners)

I_{min} = 1.060 in^4/ft
S_{min} = 0.534 in^3/ft

Deflection @ L/120
F_y = 37 ksi

Load		Single Span		Double Span		Triple Span	
20	Stress	19.88	g	19.88	g	22.22	g
psf	Defl.	19.09		25.58		23.57	
30	Stress	16.23	g	15.29	a	17.37	a
psf	Defl.	16.67		22.35		20.59	
40	Stress	14.06	g	11.47	a	13.03	a
psf	Defl.	15.15		20.30		18.71	
50	Stress	12.57	g	9.17	a	10.42	a
psf	Defl.	14.06		18.85		17.37	
60	Stress	11.48	g	7.64	a	8.69	a
psf	Defl.	13.23		17.74		16.35	
70	Stress	10.63	g	6.55	a	7.45	a
psf	Defl.	12.57		16.85		15.53	
80	Stress	9.94	g	5.73	a	6.52	a
psf	Defl.	12.02		16.12		14.85	
90	Stress	9.37	g	5.10	a	5.79	a
psf	Defl.	11.56		15.50		14.28	
100	Stress	8.89	g	4.59	a	5.21	a
psf	Defl.	11.16		14.96		13.79	

Load		Single Span		Double Span		Triple Span	
110	Stress	8.48	g	4.17	a	4.74	a
psf	Defl.	10.81		14.49		13.36	
120	Stress	8.12	g	3.82	a	4.34	a
psf	Defl.	10.50		14.08		12.97	
130	Stress	7.80	g	3.53	a	4.01	a
psf	Defl.	10.23		13.71		12.63	
140	Stress	7.51	g	3.28	a	3.72	a
psf	Defl.	9.98		13.37		12.32	
150	Stress	7.26	g	3.06	a	3.47	a
psf	Defl.	9.75		13.07		12.04	
160	Stress	7.03	g	2.87	a	3.26	a
psf	Defl.	9.54		12.79		11.79	
170	Stress	6.75	a	2.70	a	3.07	a
psf	Defl.	9.35		12.54		11.55	
180	Stress	6.37	a	2.55	a	2.90	a
psf	Defl.	9.18		12.30		11.33	
190	Stress	6.04	a	2.41	a	2.74	a
psf	Defl.	9.01		12.08		11.13	

Explanatory Notes For Load/Span Tables:

1. Numbers in the tables indicate distance in feet between adjacent structural girts.
2. Span length limitation factors:
   Stress limitation uses .6 × Fy as design stress for wind load.
   Deflection limitation uses span / 120.
3. Panel weight = 2.63 psf.
4. Load/Span tables are based on #14 fasteners with 5/8 in. ø combination washers fastened to 16 Ga. minimum thickness steel structural girts.
5. Key to failure modes:
   a - Fastener pullout from structural girt.
   b - Fastener pullover.
   g - Bending of panel.

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FL Registration No. 38327
Robert J. Amoruso, FL P.E. No. 49752
226 N. Nova Rd., #142
Ormond Beach, FL 32174-5124
rjaengpe@gmail.com

WIND LOAD/SPAN TABLE FOR MR3-36 - 20 Ga.

CENTRIA

6 Fasteners per Panel
Safety Factor = 3.00 (Fasteners)

I_{min} = 0.748 in^4/ft
S_{min} = 0.368 in^3/ft

Deflection @ L/120
F_y = 37 ksi

Load		Single Span		Double Span		Triple Span	
20	Stress	16.50	g	16.50	g	18.45	g
psf	Defl.	16.99		22.77		20.99	
30	Stress	13.47	g	13.47	g	15.06	g
psf	Defl.	14.85		19.90		18.33	
40	Stress	11.67	g	11.47	a	13.03	a
psf	Defl.	13.49		18.08		16.66	
50	Stress	10.44	g	9.17	a	10.42	a
psf	Defl.	12.52		16.78		15.46	
60	Stress	9.53	g	7.64	a	8.69	a
psf	Defl.	11.78		15.79		14.55	
70	Stress	8.82	g	6.55	a	7.45	a
psf	Defl.	11.19		15.00		13.82	
80	Stress	8.25	g	5.73	a	6.52	a
psf	Defl.	10.71		14.35		13.22	
90	Stress	7.78	g	5.10	a	5.79	a
psf	Defl.	10.29		13.80		12.71	
100	Stress	7.38	g	4.59	a	5.21	a
psf	Defl.	9.94		13.32		12.27	

Load		Single Span		Double Span		Triple Span	
110	Stress	7.04	g	4.17	a	4.74	a
psf	Defl.	9.63		12.90		11.89	
120	Stress	6.74	g	3.82	a	4.34	a
psf	Defl.	9.35		12.53		11.55	
130	Stress	6.47	g	3.53	a	4.01	a
psf	Defl.	9.11		12.20		11.25	
140	Stress	6.24	g	3.28	a	3.72	a
psf	Defl.	8.88		11.91		10.97	
150	Stress	6.03	g	3.06	a	3.47	a
psf	Defl.	8.68		11.64		10.72	
160	Stress	5.83	g	2.87	a	3.26	a
psf	Defl.	8.50		11.39		10.49	
170	Stress	5.66	g	2.70	a	3.07	a
psf	Defl.	8.33		11.16		10.28	
180	Stress	5.50	g	2.55	a	2.90	a
psf	Defl.	8.17		10.95		10.09	
190	Stress	5.35	g	2.41	a	2.74	a
psf	Defl.	8.02		10.75		9.91	

Explanatory Notes For Load/Span Tables:

1. Numbers in the tables indicate distance in feet between adjacent structural girts.
2. Span length limitation factors:
   Stress limitation uses .6 × Fy as design stress for wind load.
   Deflection limitation uses span / 120.
3. Panel weight = 1.98 psf.
4. Load/Span tables are based on #14 fasteners with 5/8 in. ø combination washers fastened to 16 Ga. minimum thickness steel structural girts.
5. Key to failure modes:
   a - Fastener pullout from structural girt.
   b - Fastener pullover.
   g - Bending of panel.

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WIND LOAD/SPAN TABLE FOR MR3-36 - 22 Ga.

CENTRIA

6 Fasteners per Panel
Safety Factor = 3.00 (Fasteners)

I_{min} = 0.594 in^4/ft
S_{min} = 0.286 in^3/ft

Deflection @ L/120
F_y = 37 ksi

Load		Single Span		Double Span		Triple Span	
20	Stress	14.55	g	14.55	g	16.26	g
psf	Defl.	15.74		21.09		19.44	
30	Stress	11.88	g	11.88	g	13.28	g
psf	Defl.	13.75		18.42		16.98	
40	Stress	10.29	g	10.29	g	11.50	g
psf	Defl.	12.49		16.74		15.43	
50	Stress	9.20	g	9.17	a	10.29	g
psf	Defl.	11.60		15.54		14.32	
60	Stress	8.40	g	7.64	a	8.69	a
psf	Defl.	10.91		14.62		13.48	
70	Stress	7.78	g	6.55	a	7.45	a
psf	Defl.	10.37		13.89		12.80	
80	Stress	7.27	g	5.73	a	6.52	a
psf	Defl.	9.91		13.29		12.24	
90	Stress	6.86	g	5.10	a	5.79	a
psf	Defl.	9.53		12.78		11.77	
100	Stress	6.51	g	4.59	a	5.21	a
psf	Defl.	9.20		12.33		11.37	

Load		Single Span		Double Span		Triple Span	
110	Stress	6.20	g	4.17	a	4.74	a
psf	Defl.	8.92		11.95		11.01	
120	Stress	5.94	g	3.82	a	4.34	a
psf	Defl.	8.66		11.61		10.70	
130	Stress	5.71	g	3.53	a	4.01	a
psf	Defl.	8.43		11.30		10.41	
140	Stress	5.50	g	3.28	a	3.72	a
psf	Defl.	8.23		11.03		10.16	
150	Stress	5.31	g	3.06	a	3.47	a
psf	Defl.	8.04		10.78		9.93	
160	Stress	5.14	g	2.87	a	3.26	a
psf	Defl.	7.87		10.55		9.72	
170	Stress	4.99	g	2.70	a	3.07	a
psf	Defl.	7.71		10.33		9.52	
180	Stress	4.85	g	2.55	a	2.90	a
psf	Defl.	7.57		10.14		9.34	
190	Stress	4.72	g	2.41	a	2.74	a
psf	Defl.	7.43		9.96		9.18	

Explanatory Notes For Load/Span Tables:

1. Numbers in the tables indicate distance in feet between adjacent structural girts.
2. Span length limitation factors:
   Stress limitation uses .6 × Fy as design stress for wind load.
   Deflection limitation uses span / 120.
3. Panel weight = 1.65 psf.
4. Load/Span tables are based on #14 fasteners with 5/8 in. ø combination washers fastened to 16 Ga. minimum thickness steel structural girts.
5. Key to failure modes:
   a - Fastener pullout from structural girt.
   b - Fastener pullover.
   g - Bending of panel.

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WIND LOAD/SPAN TABLE FOR MR3-36 - 24 Ga.

CENTRIA

6 Fasteners per Panel
Safety Factor = 3.00 (Fasteners)

I_{min} = 0.424 in^4/ft
S_{min} = 0.194 in^3/ft

Deflection @ L/120
F_y = 37 ksi

Load		Single Span		Double Span		Triple Span	
20	Stress	11.98	g	11.98	g	13.40	g
psf	Defl.	14.06		18.85		17.37	
30	Stress	9.78	g	9.78	g	10.94	g
psf	Defl.	12.29		16.47		15.17	
40	Stress	8.47	g	8.47	g	9.47	g
psf	Defl.	11.16		14.96		13.79	
50	Stress	7.58	g	7.58	g	8.47	g
psf	Defl.	10.36		13.89		12.80	
60	Stress	6.92	g	6.92	g	7.73	g
psf	Defl.	9.75		13.07		12.04	
70	Stress	6.40	g	6.40	g	7.16	g
psf	Defl.	9.26		12.41		11.44	
80	Stress	5.99	g	5.73	a	6.52	a
psf	Defl.	8.86		11.87		10.94	
90	Stress	5.65	g	5.10	a	5.79	a
psf	Defl.	8.52		11.42		10.52	
100	Stress	5.36	g	4.59	a	5.21	a
psf	Defl.	8.23		11.02		10.16	

Load		Single Span		Double Span		Triple Span	
110	Stress	5.11	g	4.17	a	4.74	a
psf	Defl.	7.97		10.68		9.84	
120	Stress	4.89	g	3.82	a	4.34	a
psf	Defl.	7.74		10.37		9.56	
130	Stress	4.70	g	3.53	a	4.01	a
psf	Defl.	7.54		10.10		9.31	
140	Stress	4.53	g	3.28	a	3.72	a
psf	Defl.	7.35		9.85		9.08	
150	Stress	4.38	g	3.06	a	3.47	a
psf	Defl.	7.19		9.63		8.87	
160	Stress	4.24	g	2.87	a	3.26	a
psf	Defl.	7.03		9.42		8.69	
170	Stress	4.11	g	2.70	a	3.07	a
psf	Defl.	6.89		9.24		8.51	
180	Stress	3.99	g	2.55	a	2.90	a
psf	Defl.	6.76		9.06		8.35	
190	Stress	3.89	g	2.41	a	2.74	a
psf	Defl.	6.64		8.90		8.20	

Explanatory Notes For Load/Span Tables:

1. Numbers in the tables indicate distance in feet between adjacent structural girts.
2. Span length limitation factors:
   Stress limitation uses .6 × Fy as design stress for wind load.
   Deflection limitation uses span / 120.
3. Panel weight = 1.32 psf.
4. Load/Span tables are based on #14 fasteners with 5/8 in. ø combination washers fastened to 16 Ga. minimum thickness steel structural girts.
5. Key to failure modes:
   a - Fastener pullout from structural girt.
   b - Fastener pullover.
   g - Bending of panel.

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