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-1151, Rev. 1

Product Description: IW Series Concealed Fastener Metal Wall Panels

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 IW Series Concealed Fastener Metal Wall Panels 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 have been met by testing (Reference 2) and engineering evaluation (Reference 3.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
- 1707.1 Alternative Test Procedure
- 2210.1 Cold-Formed Steel, General

Testing was based on ASTM E72 per the recommendations of Reference 5.b (Section 1707.1). Testing determines the Negative (Uplift) Wind Pressure Loading in PSF. The minimum safety factor against failure used to determine the allowable pressure loading is 2.5 if excessive slipping or failure occurs at the connections and 2 for all other panel failure modes. IW-10A used in testing envelopes all IW Series profiles due to nearly identical section properties.

The engineering evaluation (Reference 3.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 Positive (Downwards Acting) 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 2.5. Deflection limitation based on L/180 which exceeds L/120 required by the building code.

Testing and engineering evaluation results are summarized in tables of Appendix 2 and 3 of this report.

Appendix 1 summarizes the IW Series Concealed Fastener Metal Wall Panels material parameters and how to use the testing/engineering-based Wind Pressure Loading results in Appendix 2 and 3.

See ACE-EER-1151 (Reference 3.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) IW Series Horizontal Panel Profiles & Installation Details, Signed and Sealed by Robert J. Amoruso, P.E.
   b) IW Series Vertical Panel Profiles & Installation Details, Signed and Sealed by Robert J. Amoruso, P.E.

2) Tests to ASTM E72-02
   a) FET T201-12 IW-10A 12in W x 20 GA Negative Load Test with and without Clips
   b) FET T202-12 IW-10A 12in W x 18 GA Negative Load Test with and without Clips
   c) FET T229-11 IW-10A 20 GA Negative Load Test with Clips
   d) FET T313-11 IW-10A 18 GA Negative Load Test with Clips
   e) FET T315-11 IW-10A 22 GA Negative Load Test with Clips

3) Reports and Calculations
   a) Report No. ACE-PER-1151, Appendix 2 & 3, Panel Span Analysis for Centria IW Series Concealed Fastener Metal Wall Panels to AISI S100-07/S2-10 and ASTM E72, Signed and Sealed by Robert J. Amoruso, P.E.
      i) See Reference 3.b for equivalency evaluation of AISI S100-07/S2-10 and ASTM E72 to current 2026 FBC requirements.

b) Report No. ACE-EER-1151, Equivalency Evaluation for Centria IW Series Concealed Fastener Metal Wall Panels to the 9th Edition (2026) FBC, Signed & Sealed by Robert J. Amoruso, P.E.

4) 9th Edition (2026) Florida Building Code (FBC), Building Volume
   i) 1403.3 Exterior Walls – Wind Resistance
   ii) 1404.5 Exterior Walls – Metal
   iii) Table 1405.2 Minimum Thickness of Weather Coverings
      (1) Steel must meet or exceed 0.0149" in thickness.
   iv) 1405.17 Exterior Walls - Fasteners
   v) Table 1604.3 Deflection Limits
      (1) Exterior Walls/Flexible Finishes, deflection for wind loading limited to L/120.
   vi) 1609 Wind Loads
   vii) 1707 Alternative Test Procedure
   viii) 2210.1 Cold-Formed Steel, General

5) Standards
   a) AISI S100-07/S2-10, North American Specification for the Design of Cold-formed Steel Structural Members
   b) Metal Construction Association, Guidelines for Wall Panel, Preformed Metal Wall Specification Guidelines, 3rd Edition.
      i) The test method shall be either ASTM E72 or ASTM E330.
      ii) The minimum safety factor against failure shall be:
         (1) 2.5 if excessive slipping or failure occurs at the connections.
         (2) Otherwise, it shall be 2.

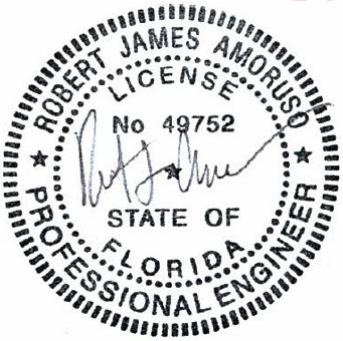
APPENDICES:

- Appendix 1: IW Series Concealed Fastener Metal Wall Panel Profile Drawing, Section Properties, Configuration and Fastener Requirements, 4 pages
- Appendix 2: IW Series Concealed Fastener Metal Wall Panel Load/Span Tables for Negative (Uplift) Wind Pressure Loading in PSF, 1 page
- Appendix 3: IW Series Concealed Fastener Metal Wall Panel Load/Span Tables for Positive (Downwards Acting) Wind Pressure Loading in PSF, 12 pages

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 13:44:08 -04'00'

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

APPENDIX 1

IW Series Concealed Fastener Metal Wall Panel Drawing, Section Properties, Configuration and Fastener Requirements – Load/Span Table Usage

- Panel Material with 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
    - 12" nominal width with 1-1/2” high ribs. See following illustrations for panel profiles.
    - thicknesses
        - 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
    - One screw is installed per panel at each support.
    - Supports are minimum 14 Ga for 18 Ga IW Panel and 16 Ga for 20 Ga and 22 Ga IW Panel.
- Load/Span Table usage
    - Results tabulated in the following Appendices.
        - Appendix 2: IW Series Concealed Fastener Metal Wall Panel Load/Span Tables for Negative (Uplift) Wind Pressure Loading in PSF, 1 page
        - Appendix 3: IW Series Concealed Fastener Metal Wall Panel Load/Span Tables for Positive (Downwards Acting) Wind Pressure Loading in PSF, 12 pages
    - See Appendix 2 and 3 for notes specific to each table’s usage.
    - Additional Notes:
        - Appendix 2
            - Negative (Uplift) results in Appendix 2 mandate use of the negative load clips with this product approval document.
        - Appendix 3
            - Tables indicated where evaluation results required use of negative load clips (Part No. NLC-1) at each fastening point.
            - However, Negative (Uplift) results in Appendix 2 mandate use of the negative load clips with this product approval document.
- ***A Negative load clip (Part No. NLC-1) at each fastening point is required by this product approval document.***

- Profile Section Properties

IW-10A, IW-11A, IW-12A, IW-13A, IW-14A and IW-15A [IW-12A and IW-13A not available in 18 Ga. thickness]			
Thickness (GA.)	**Minimum Ix (in^4/ft)**	**Minimum Sx (in^3/ft)**	**Weight (psf)**
22	0.087	0.098	1.90
20	0.112	0.130	2.28
18	0.168	0.208	3.03

IW-20A and IW-21A			
Thickness (GA.)	**Minimum Ix (in^4/ft)**	**Minimum Sx (in^3/ft)**	**Weight (psf)**
22	0.093	0.093	1.90
20	0.122	0.123	2.28
18	0.186	0.194	3.03

IW-30A and IW-31A			
Thickness (GA.)	**Minimum Ix (in^4/ft)**	**Minimum Sx (in^3/ft)**	**Weight (psf)**
22	0.090	0.096	1.90
20	0.117	0.128	2.28
18	0.177	0.204	3.03

IW-40A and IW-41A			
Thickness (GA.)	**Minimum Ix (in^4/ft)**	**Minimum Sx (in^3/ft)**	**Weight (psf)**
22	0.088	0.097	1.90
20	0.115	0.129	2.28
18	0.173	0.206	3.03

- Profile Drawings – IW-10A through IW-15A

IW–10A

IW–11A

IW–12A

IW–13A

IW–14A

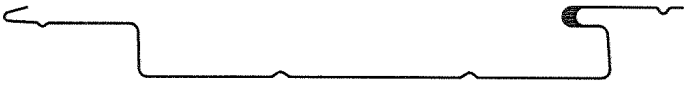
IW–15A

- Profile Drawings – IW-20A through IW-41A

IW–20A

IW–21A

IW–30A



IW–31A

IW–40A

IW–41A

APPENDIX 2

IW 10A Through IW 41A Wind Pressure Load/Span Table - Negative Load Clips (NLC-1) Required														
Panel Gage	**Allowable Negative (Uplift) Pressure Load (psf)**													
	Span Length (ft)													
	1.33 *	**2 ***	**2.67**	**3**	**3.5**	**4 ***	**4.5**	**5**	**5.5**	**6**	**6.5**	**7**	**7.5**	**8 ***
22	72.3	72.3	58.4	51.5	41.1	30.7	---	---	---	---	---	---	---	---
20	85.0	85.0	73.2	67.4	58.5	49.7	47.5	45.3	43.1	40.9	38.6	36.4	34.2	32.0
18	193.6	161.2	134.3	121.1	101.0	80.9	76.3	71.8	67.2	62.6	58.0	53.5	48.9	47.4

1) The Allowable loads listed above apply to any span condition, single, double, triple, etc. This table applies for both positive and negative loads, and for all IW profiles except IW-60A.

2) Spans indicated with an asterisk (*) are based on test results per ASTM E72. Additional allowable spans are based on interpolation between tested values. Interpolated values are based on the worst case Safety Factor for the failure mode in testing - see Note 3 below.

3) Method of Failure and Safety Factors:
3.1) Based on Metal Construction Association, Preformed Metal Wall Specification Guidelines 3rd Edition recommendations, a Safety Factor for side joint disengagement is 2.0 and for panel pullover at fastener is 2.5. Results based on Summation of Results divide by Number of Tests divide by Safety Factor
3.2) Method of failure is side joint disengagement for the 2' and 4' tested specimens. Results shown above based on a Safety Factor of 2.0.
3.3) Method of failure is a combination of side joint disengagement and panel pullover at fastener for the 8' span tested specimens. Results shown above based on a Safety Factor of 2.5 for fastener failure or 2 for joint disengagement.

4) This table applies to all fastening conditions with a minimum support thickness of 16 gage for 22 and 20 gage IW panels, and 14 gage minimum supports for 18 gage IW panels. For lighter gage supports, fastener calculations must be performed.

5) ***Negative Load Clips (NLC-1) are required at the center of each span for spans ≤ 4'-0". For spans greater than 4'-0" negative load clips are required at third points between supports.***

6) Oil canning within industry standard guidelines as published by Metal Cconstruction Association is not a cause for rejection.

This table applicable to IW 10A, IW-11A, IW-12A, IW-13A, IW-14A, IW-15A, IW-20A, IW-21A, IW-30A, IW-31A, IW-40A and IW 41A.

LOAD/SPAN TABLE - WIND LOADS FOR IW-10A - 18 Ga.

Also Applicable to 18 Ga.

IW-11A, IW-14A and IW-15A **

CENTRIA

1 Fastener per Panel	14 Ga. Supports	I_{min} = 0.168 in^4/ft	Deflection @ L/180
Safety Factor = 2.50 (Fasteners)		S_{min} = 0.208 in^3/ft	F_y = 37 ksi

Load		Single Span	Double Span	Triple Span
20	Stress	12.41 * g	12.41 * g	13.87 * g
psf	Defl.	9.02	12.09 *	11.15
25	Stress	11.10 g	11.10 g	12.41 * g
psf	Defl.	8.38	11.23	10.35
30	Stress	10.13 g	10.13 g	11.33 g
psf	Defl.	7.88	10.57	9.74
35	Stress	9.38 g	9.38 g	10.49 g
psf	Defl.	7.49	10.04	9.25
40	Stress	8.77 g	8.77 g	9.81 g
psf	Defl.	7.16	9.60	8.85
45	Stress	8.27 g	8.27 g	9.25 g
psf	Defl.	6.89	9.23 *	8.51
50	Stress	7.85 g	7.85 g	8.77 g
psf	Defl.	6.65	8.91 *	8.21
55	Stress	7.48 g	7.16 a	8.13 a
psf	Defl.	6.44	8.63 *	7.96
60	Stress	7.16 g	6.56 a	7.45 a
psf	Defl.	6.26	8.39 *	7.73 *

Load		Single Span	Double Span	Triple Span
65	Stress	6.88 g	6.06 a	6.88 a
psf	Defl.	6.09	8.17 *	7.52 *
70	Stress	6.63 g	5.62 a	6.39 a
psf	Defl.	5.94	7.97 *	7.34 *
75	Stress	6.41 g	5.25 a	5.96 a
psf	Defl.	5.81	7.78 *	7.17 *
80	Stress	6.20 g	4.92 a	5.59 a
psf	Defl.	5.69	7.62 *	7.02 *
85	Stress	6.02 g	4.63 a	5.26 a
psf	Defl.	5.57	7.47 *	6.88 *
90	Stress	5.85 g	4.37 a	4.97 a
psf	Defl.	5.47	7.33 *	6.75 *
95	Stress	5.69 g	4.14 a	4.71 a
psf	Defl.	5.37	7.20 *	6.63 *
100	Stress	5.55 g	3.94 a	4.47 a
psf	Defl.	5.28	7.07 *	6.52 *
105	Stress	5.41 g	3.75 a	4.26 a
psf	Defl.	5.19	6.96 *	6.41 *

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 / 180.
3. Load/Span tables are based on #14 fasteners with 5/8" ø combination washers fastened to 14 Ga. minimum thickness steel structural girts.
4. Panel weight = 3.03 psf.
5. Key to failure modes:
   - a - Fastener pullout from structural girt.
   - b - Fastener pullover.
   - g - Panel bending.
   - j - Clip disengagement.
6. Oil canning within standard guidelines as determined by MCA is not a cause for rejection.
7. *Spans marked with an asterisk require negative load clips (part NLC-1) at each fastening point.

** IW-12A and IW-13A not available in 18 Ga. thickness.

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

Project No. ACE-2026-157
Report No. ACE-PER-1151, Rev. 1
APPENDIX 3

LOAD/SPAN TABLE - WIND LOADS FOR IW-10A - 20 Ga.

Also Applicable to 20 Ga.

IW-11A, IW-12A, IW-13A, IW-14A and IW-15A

CENTRIA

1 Fastener per Panel	16 Ga. Supports	I_{min} = 0.112 in^4/ft	Deflection @ L/180
Safety Factor = 2.50 (Fasteners)		S_{min} = 0.130 in^3/ft	F_y = 37 ksi

Load		Single Span		Double Span		Triple Span	
20	Stress	9.81	g	9.81	g	10.97	g
psf	Defl.	7.88		10.57		9.74	
25	Stress	8.77	g	8.77	g	9.81	g
psf	Defl.	7.32		9.81		9.04	
30	Stress	8.01	g	8.01	g	8.95	g
psf	Defl.	6.89		9.23		8.51	
35	Stress	7.41	g	7.41	g	8.29	g
psf	Defl.	6.54		8.77		8.08	
40	Stress	6.94	g	6.88	a	7.75	g
psf	Defl.	6.26		8.39	*	7.73	
45	Stress	6.54	g	6.12	a	6.95	a
psf	Defl.	6.02		8.06	*	7.43	
50	Stress	6.20	g	5.50	a	6.25	a
psf	Defl.	5.81		7.78	*	7.17	
55	Stress	5.91	g	5.00	a	5.69	a
psf	Defl.	5.63		7.54	*	6.95	*
60	Stress	5.66	g	4.59	a	5.21	a
psf	Defl.	5.47		7.33	*	6.75	*

Load		Single Span		Double Span		Triple Span	
65	Stress	5.44	g	4.23	a	4.81	a
psf	Defl.	5.32		7.13	*	6.57	*
70	Stress	5.24	g	3.93	a	4.47	a
psf	Defl.	5.19		6.96	*	6.41	*
75	Stress	5.06	g	3.67	a	4.17	a
psf	Defl.	5.07		6.80	*	6.27	*
80	Stress	4.90	g	3.44	a	3.91	a
psf	Defl.	4.97		6.66	*	6.13	*
85	Stress	4.76	g	3.24	a	3.68	a
psf	Defl.	4.87		6.52	*	6.01	*
90	Stress	4.62	g	3.06	a	3.47	a
psf	Defl.	4.78		6.40	*	5.90	*
95	Stress	4.50	g	2.90	a	3.29	a
psf	Defl.	4.69		6.29	*	5.79	*
100	Stress	4.39	g	2.75	a	3.13	a
psf	Defl.	4.61		6.18	*	5.69	*
105	Stress	4.28	g	2.62	a	2.98	a
psf	Defl.	4.54		6.08	*	5.60	*

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 / 180.
3. Load/Span tables are based on #14 fasteners with 5/8" ø combination washers fastened to 16 Ga. minimum thickness steel structural girts.
4. Panel weight = 2.28 psf.
5. Key to failure modes:
   - a - Fastener pullout from structural girt.
   - b - Fastener pullover.
   - g - Panel bending.
   - j - Clip disengagement.
6. Oil canning within standard guidelines as determined by MCA is not a cause for rejection.
7. *Spans marked with an asterisk require negative load clips (part NLC-1) at each fastening point.

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

LOAD/SPAN TABLE - WIND LOADS FOR IW-10A - 22 Ga.

Also Applicable to 22 Ga.

IW-11A, IW-12A, IW-13A, IW-14A and IW-15A

CENTRIA

1 Fastener per Panel	16 Ga. Supports	I_{min} = 0.087 in^4/ft	Deflection @ L/180
Safety Factor = 2.50 (Fasteners)		S_{min} = 0.098 in^3/ft	F_y = 37 ksi

Load		Single Span		Double Span		Triple Span	
20	Stress	8.52	g	8.52	g	9.52	g
psf	Defl.	7.25		9.71		8.95	
25	Stress	7.62	g	7.62	g	8.52	g
psf	Defl.	6.73		9.02		8.31	
30	Stress	6.95	g	6.95	g	7.77	g
psf	Defl.	6.33		8.48 *		7.82	
35	Stress	6.44	g	6.44	g	7.20	g
psf	Defl.	6.01		8.06 *		7.43	
40	Stress	6.02	g	6.02 *	g	6.73	g
psf	Defl.	5.75		7.71 *		7.10 *	
45	Stress	5.68	g	5.68 *	g	6.35 *	g
psf	Defl.	5.53		7.41 *		6.83 *	
50	Stress	5.39	g	5.39 *	g	6.02 *	g
psf	Defl.	5.34		7.16 *		6.59 *	
55	Stress	5.14	g	5.00 *	a	5.69 *	a
psf	Defl.	5.17		6.93 *		6.39 *	
60	Stress	4.92	g	4.59 *	a	5.21 *	a
psf	Defl.	5.02		6.73 *		6.21 *	

Load		Single Span		Double Span		Triple Span	
65	Stress	4.72	g	4.23 *	a	4.81 *	a
psf	Defl.	4.89		6.56 *		6.04 *	
70	Stress	4.55	g	3.93 *	a	4.47 *	a
psf	Defl.	4.77		6.40 *		5.90 *	
75	Stress	4.40	g	3.67 *	a	4.17 *	a
psf	Defl.	4.66		6.25 *		5.76 *	
80	Stress	4.26	g	3.44 *	a	3.91 *	a
psf	Defl.	4.57		6.12 *		5.64 *	
85	Stress	4.13	g	3.24 *	a	3.68 *	a
psf	Defl.	4.47		6.00 *		5.53 *	
90	Stress	4.01	g	3.06 *	a	3.47 *	a
psf	Defl.	4.39		5.88 *		5.42 *	
95	Stress	3.91	g	2.90 *	a	3.29 *	a
psf	Defl.	4.31		5.78 *		5.32 *	
100	Stress	3.81	g	2.75 *	a	3.13 *	a
psf	Defl.	4.24		5.68 *		5.23 *	
105	Stress	3.72	g	2.62 *	a	2.98 *	a
psf	Defl.	4.17		5.59 *		5.15 *	

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 / 180.
3. Load/Span tables are based on #14 fasteners with 5/8" ø combination washers fastened to 16 Ga. minimum thickness steel structural girts.
4. Panel weight = 1.90 psf.
5. Key to failure modes:
   - a - Fastener pullout from structural girt.
   - b - Fastener pullover.
   - g - Panel bending.
   - j - Clip disengagement.
6. Oil canning within standard guidelines as determined by MCA is not a cause for rejection.
7. *Spans marked with an asterisk require negative load clips (part NLC-1) at each fastening point.

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

LOAD/SPAN TABLE - WIND LOADS FOR IW-20A - 18 Ga.

Also Applicable to 18 Ga.

IW-21A

CENTRIA

1 Fastener per Panel	14 Ga. Supports	I_{min} = 0.186 in^4/ft	Deflection @ L/180
Safety Factor = 2.50 (Fasteners)		S_{min} = 0.194 in^3/ft	F_y = 37 ksi

Load		Single Span		Double Span		Triple Span	
20	Stress	11.98	g	11.98	g	13.40 *	g
psf	Defl.	9.34		12.51 *		11.53	
25	Stress	10.72	g	10.72	g	11.98	g
psf	Defl.	8.67		11.61		10.70	
30	Stress	9.78	g	9.78	g	10.94	g
psf	Defl.	8.16		10.93		10.07	
35	Stress	9.06	g	9.06	g	10.13	g
psf	Defl.	7.75		10.38		9.57	
40	Stress	8.47	g	8.47	g	9.47	g
psf	Defl.	7.41		9.93		9.15	
45	Stress	7.99	g	7.99	g	8.93	g
psf	Defl.	7.12		9.55 *		8.80	
50	Stress	7.58	g	7.58	g	8.47	g
psf	Defl.	6.88		9.22 *		8.50	
55	Stress	7.23	g	7.16	a	8.08	g
psf	Defl.	6.66		8.93 *		8.23	
60	Stress	6.92	g	6.56	a	7.45	a
psf	Defl.	6.47		8.68 *		7.99 *	

Load		Single Span		Double Span		Triple Span	
65	Stress	6.65	g	6.06	a	6.88	a
psf	Defl.	6.30		8.45 *		7.78 *	
70	Stress	6.40	g	5.62	a	6.39	a
psf	Defl.	6.15		8.24 *		7.59 *	
75	Stress	6.19	g	5.25	a	5.96	a
psf	Defl.	6.01		8.05 *		7.42 *	
80	Stress	5.99	g	4.92	a	5.59	a
psf	Defl.	5.88		7.88 *		7.26 *	
85	Stress	5.81	g	4.63	a	5.26	a
psf	Defl.	5.76		7.72 *		7.12 *	
90	Stress	5.65	g	4.37	a	4.97	a
psf	Defl.	5.65		7.58 *		6.98 *	
95	Stress	5.50	g	4.14	a	4.71	a
psf	Defl.	5.55		7.44 *		6.86 *	
100	Stress	5.36	g	3.94	a	4.47	a
psf	Defl.	5.46		7.32 *		6.74 *	
105	Stress	5.23	g	3.75	a	4.26	a
psf	Defl.	5.37		7.20 *		6.63 *	

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 / 180.
3. Load/Span tables are based on #14 fasteners with 5/8" ø combination washers fastened to 14 Ga. minimum thickness steel structural girts.
4. Panel weight = 3.03 psf.
5. Key to failure modes:
   a - Fastener pullout from structural girt.
   b - Fastener pullover.
   g - Panel bending.
   j - Clip disengagement.
6. Oil canning within standard guidelines as determined by MCA is not a cause for rejection.
7. *Spans marked with an asterisk require negative load clips (part NLC-1) at each fastening point.

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

LOAD/SPAN TABLE - WIND LOADS FOR IW-20A - 20 Ga.

Also Applicable to 20 Ga.

IW-21A

CENTRIA

1 Fastener per Panel	16 Ga. Supports	I_{min} = 0.122 in^4/ft	Deflection @ L/180
Safety Factor = 2.50 (Fasteners)		S_{min} = 0.123 in^3/ft	F_y = 37 ksi

Load		Single Span		Double Span		Triple Span	
20	Stress	9.54	g	9.54	g	10.67	g
psf	Defl.	8.11		10.87		10.02	
25	Stress	8.53	g	8.53	g	9.54	g
psf	Defl.	7.53		10.09		9.30	
30	Stress	7.79	g	7.79	g	8.71	g
psf	Defl.	7.09		9.50		8.75	
35	Stress	7.21	g	7.21	g	8.06	g
psf	Defl.	6.73		9.02		8.31	
40	Stress	6.75	g	6.75	g	7.54	g
psf	Defl.	6.44		8.63	*	7.95	
45	Stress	6.36	g	6.12	a	6.95	a
psf	Defl.	6.19		8.30	*	7.65	
50	Stress	6.03	g	5.50	a	6.25	a
psf	Defl.	5.98		8.01	*	7.38	*
55	Stress	5.75	g	5.00	a	5.69	a
psf	Defl.	5.79		7.76	*	7.15	*
60	Stress	5.51	g	4.59	a	5.21	a
psf	Defl.	5.62		7.54	*	6.95	*

Load		Single Span		Double Span		Triple Span	
65	Stress	5.29	g	4.23	a	4.81	a
psf	Defl.	5.48		7.34	*	6.76	*
70	Stress	5.10	g	3.93	a	4.47	a
psf	Defl.	5.34		7.16	*	6.60	*
75	Stress	4.93	g	3.67	a	4.17	a
psf	Defl.	5.22		7.00	*	6.45	*
80	Stress	4.77	g	3.44	a	3.91	a
psf	Defl.	5.11		6.85	*	6.31	*
85	Stress	4.63	g	3.24	a	3.68	a
psf	Defl.	5.01		6.71	*	6.19	*
90	Stress	4.50	g	3.06	a	3.47	a
psf	Defl.	4.91		6.58	*	6.07	*
95	Stress	4.38	g	2.90	a	3.29	a
psf	Defl.	4.83		6.47	*	5.96	*
100	Stress	4.27	g	2.75	a	3.13	a
psf	Defl.	4.74		6.36	*	5.86	*
105	Stress	4.16	g	2.62	a	2.98	a
psf	Defl.	4.67		6.26	*	5.76	*

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 / 180.
3. Load/Span tables are based on #14 fasteners with 5/8" ø combination washers fastened to 16 Ga. minimum thickness steel structural girts.
4. Panel weight = 2.28 psf.
5. Key to failure modes:
   - a - Fastener pullout from structural girt.
   - b - Fastener pullover.
   - g - Panel bending.
   - j - Clip disengagement.
6. Oil canning within standard guidelines as determined by MCA is not a cause for rejection.
7. *Spans marked with an asterisk require negative load clips (part NLC-1) at each fastening point.

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

LOAD/SPAN TABLE - WIND LOADS FOR IW-20A - 22 Ga.

Also Applicable to 22 Ga.

IW-21A

CENTRIA

1 Fastener per Panel	16 Ga. Supports	I_{min} = 0.093 in^4/ft	Deflection @ L/180
Safety Factor = 2.50 (Fasteners)		S_{min} = 0.093 in^3/ft	F_y = 37 ksi

Load		Single Span		Double Span		Triple Span	
20	Stress	8.30	g	8.30	g	9.27	g
psf	Defl.	7.41		9.93		9.15	
25	Stress	7.42	g	7.42	g	8.30	g
psf	Defl.	6.88		9.22		8.50	
30	Stress	6.77	g	6.77	g	7.57	g
psf	Defl.	6.47		8.68	*	7.99	
35	Stress	6.27	g	6.27	g	7.01	g
psf	Defl.	6.15		8.24	*	7.59	
40	Stress	5.87	g	5.87	g	6.56	g
psf	Defl.	5.88		7.88	*	7.26	*
45	Stress	5.53	g	5.53	* g	6.18	* g
psf	Defl.	5.65		7.58	*	6.98	*
50	Stress	5.25	g	5.25	* g	5.87	* g
psf	Defl.	5.46		7.32	*	6.74	*
55	Stress	5.00	g	5.00	* g	5.59	* g
psf	Defl.	5.29		7.09	*	6.53	*
60	Stress	4.79	g	4.59	* a	5.21	* a
psf	Defl.	5.14		6.89	*	6.35	*

Load		Single Span		Double Span		Triple Span	
65	Stress	4.60	g	4.23	* a	4.81	* a
psf	Defl.	5.00		6.70	*	6.18	*
70	Stress	4.43	g	3.93	* a	4.47	* a
psf	Defl.	4.88		6.54	*	6.03	*
75	Stress	4.28	g	3.67	* a	4.17	* a
psf	Defl.	4.77		6.39	*	5.89	*
80	Stress	4.15	g	3.44	* a	3.91	* a
psf	Defl.	4.67		6.26	*	5.77	*
85	Stress	4.02	g	3.24	* a	3.68	* a
psf	Defl.	4.57		6.13	*	5.65	*
90	Stress	3.91	g	3.06	* a	3.47	* a
psf	Defl.	4.49		6.02	*	5.54	*
95	Stress	3.81	g	2.90	* a	3.29	* a
psf	Defl.	4.41		5.91	*	5.44	*
100	Stress	3.71	g	2.75	* a	3.13	* a
psf	Defl.	4.33		5.81	*	5.35	*
105	Stress	3.62	g	2.62	* a	2.98	* a
psf	Defl.	4.26		5.71	*	5.27	*

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 / 180.
3. Load/Span tables are based on #14 fasteners with 5/8" ø combination washers fastened to 16 Ga. minimum thickness steel structural girts.
4. Panel weight = 1.90 psf.
5. Key to failure modes:
   a - Fastener pullout from structural girt.
   b - Fastener pullover.
   g - Panel bending.
   j - Clip disengagement.
6. Oil canning within standard guidelines as determined by MCA is not a cause for rejection.
7. *Spans marked with an asterisk require negative load clips (part NLC-1) at each fastening point.

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

LOAD/SPAN TABLE - WIND LOADS FOR IW-30A - 18 Ga.

Also Applicable to 18 Ga.

IW-31A

CENTRIA

1 Fastener per Panel	14 Ga. Supports	I_{min} = 0.177 in^4/ft	Deflection @ L/180
Safety Factor = 2.50 (Fasteners)		S_{min} = 0.204 in^3/ft	F_y = 37 ksi

Load		Single Span	Double Span	Triple Span
20	Stress	12.29 * g	12.29 * g	13.74 * g
psf	Defl.	9.18	12.31 *	11.34
25	Stress	10.99 g	10.99 g	12.29 * g
psf	Defl.	8.52	11.42	10.53
30	Stress	10.03 g	10.03 g	11.22 g
psf	Defl.	8.02	10.75	9.91
35	Stress	9.29 g	9.29 g	10.38 g
psf	Defl.	7.62	10.21	9.41
40	Stress	8.69 g	8.69 g	9.71 g
psf	Defl.	7.29	9.77	9.00
45	Stress	8.19 g	8.19 g	9.16 g
psf	Defl.	7.01	9.39 *	8.66
50	Stress	7.77 g	7.77 g	8.69 g
psf	Defl.	6.77	9.07 *	8.36
55	Stress	7.41 g	7.16 a	8.13 a
psf	Defl.	6.55	8.78 *	8.10
60	Stress	7.09 g	6.56 a	7.45 a
psf	Defl.	6.37	8.53 *	7.86 *

Load		Single Span	Double Span	Triple Span
65	Stress	6.82 g	6.06 a	6.88 a
psf	Defl.	6.20	8.31 *	7.66 *
70	Stress	6.57 g	5.62 a	6.39 a
psf	Defl.	6.05	8.11 *	7.47 *
75	Stress	6.34 g	5.25 a	5.96 a
psf	Defl.	5.91	7.92 *	7.30 *
80	Stress	6.14 g	4.92 a	5.59 a
psf	Defl.	5.78	7.75 *	7.14 *
85	Stress	5.96 g	4.63 a	5.26 a
psf	Defl.	5.67	7.60 *	7.00 *
90	Stress	5.79 g	4.37 a	4.97 a
psf	Defl.	5.56	7.45 *	6.87 *
95	Stress	5.64 g	4.14 a	4.71 a
psf	Defl.	5.46	7.32 *	6.75 *
100	Stress	5.49 g	3.94 a	4.47 a
psf	Defl.	5.37	7.20 *	6.63 *
105	Stress	5.36 g	3.75 a	4.26 a
psf	Defl.	5.28	7.08 *	6.53 *

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 / 180.
3. Load/Span tables are based on #14 fasteners with 5/8" ø combination washers fastened to 14 Ga. minimum thickness steel structural girts.
4. Panel weight = 3.03 psf.
5. Key to failure modes:
   - a - Fastener pullout from structural girt.
   - b - Fastener pullover.
   - g - Panel bending.
   - j - Clip disengagement.
6. Oil canning within standard guidelines as determined by MCA is not a cause for rejection.
7. *Spans marked with an asterisk require negative load clips (part NLC-1) at each fastening point.

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

LOAD/SPAN TABLE - WIND LOADS FOR IW-30A - 20 Ga.

Also Applicable to 20 Ga.

IW-31A

CENTRIA

1 Fastener per Panel	16 Ga. Supports	I_{min} = 0.117 in^4/ft	Deflection @ L/180
Safety Factor = 2.50 (Fasteners)		S_{min} = 0.128 in^3/ft	F_y = 37 ksi

Load		Single Span		Double Span		Triple Span	
20	Stress	9.73	g	9.73	g	10.88	g
psf	Defl.	8.00		10.72		9.88	
25	Stress	8.70	g	8.70	g	9.73	g
psf	Defl.	7.43		9.95		9.17	
30	Stress	7.95	g	7.95	g	8.88	g
psf	Defl.	6.99		9.37		8.63	
35	Stress	7.36	g	7.36	g	8.23	g
psf	Defl.	6.64		8.90		8.20	
40	Stress	6.88	g	6.88	a	7.69	g
psf	Defl.	6.35		8.51	*	7.84	
45	Stress	6.49	g	6.12	a	6.95	a
psf	Defl.	6.10		8.18	*	7.54	
50	Stress	6.16	g	5.50	a	6.25	a
psf	Defl.	5.89		7.90	*	7.28	*
55	Stress	5.87	g	5.00	a	5.69	a
psf	Defl.	5.71		7.65	*	7.05	*
60	Stress	5.62	g	4.59	a	5.21	a
psf	Defl.	5.55		7.43	*	6.85	*

Load		Single Span		Double Span		Triple Span	
65	Stress	5.40	g	4.23	a	4.81	a
psf	Defl.	5.40		7.24	*	6.67	*
70	Stress	5.20	g	3.93	a	4.47	a
psf	Defl.	5.27		7.06	*	6.51	*
75	Stress	5.03	g	3.67	a	4.17	a
psf	Defl.	5.15		6.90	*	6.36	*
80	Stress	4.87	g	3.44	a	3.91	a
psf	Defl.	5.04		6.75	*	6.22	*
85	Stress	4.72	g	3.24	a	3.68	a
psf	Defl.	4.94		6.62	*	6.10	*
90	Stress	4.59	g	3.06	a	3.47	a
psf	Defl.	4.85		6.49	*	5.98	*
95	Stress	4.47	g	2.90	a	3.29	a
psf	Defl.	4.76		6.38	*	5.88	*
100	Stress	4.35	g	2.75	a	3.13	a
psf	Defl.	4.68		6.27	*	5.78	*
105	Stress	4.25	g	2.62	a	2.98	a
psf	Defl.	4.60		6.17	*	5.68	*

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 / 180.
3. Load/Span tables are based on #14 fasteners with 5/8" ø combination washers fastened to 16 Ga. minimum thickness steel structural girts.
4. Panel weight = 2.28 psf.
5. Key to failure modes:
   - a - Fastener pullout from structural girt.
   - b - Fastener pullover.
   - g - Panel bending.
   - j - Clip disengagement.
6. Oil canning within standard guidelines as determined by MCA is not a cause for rejection.
7. *Spans marked with an asterisk require negative load clips (part NLC-1) at each fastening point.

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

LOAD/SPAN TABLE - WIND LOADS FOR IW-30A - 22 Ga.

Also Applicable to 22 Ga.

IW-31A

CENTRIA

1 Fastener per Panel	16 Ga. Supports	I_{min} = 0.090 in^4/ft	Deflection @ L/180
Safety Factor = 2.50 (Fasteners)		S_{min} = 0.096 in^3/ft	F_y = 37 ksi

Load		Single Span		Double Span		Triple Span	
20	Stress	8.43	g	8.43	g	9.42	g
psf	Defl.	7.33		9.82		9.05	
25	Stress	7.54	g	7.54	g	8.43	g
psf	Defl.	6.80		9.12		8.40	
30	Stress	6.88	g	6.88	g	7.69	g
psf	Defl.	6.40		8.58 *		7.91	
35	Stress	6.37	g	6.37	g	7.12	g
psf	Defl.	6.08		8.15 *		7.51	
40	Stress	5.96	g	5.96	g	6.66	g
psf	Defl.	5.82		7.80 *		7.18 *	
45	Stress	5.62	g	5.62 *	g	6.28 *	g
psf	Defl.	5.59		7.50 *		6.91 *	
50	Stress	5.33	g	5.33 *	g	5.96 *	g
psf	Defl.	5.40		7.24 *		6.67 *	
55	Stress	5.08	g	5.00 *	a	5.68 *	g
psf	Defl.	5.23		7.01 *		6.46 *	
60	Stress	4.87	g	4.59 *	a	5.21 *	a
psf	Defl.	5.08		6.81 *		6.28 *	

Load		Single Span		Double Span		Triple Span	
65	Stress	4.68	g	4.23 *	a	4.81 *	a
psf	Defl.	4.95		6.63 *		6.11 *	
70	Stress	4.51	g	3.93 *	a	4.47 *	a
psf	Defl.	4.83		6.47 *		5.96 *	
75	Stress	4.35	g	3.67 *	a	4.17 *	a
psf	Defl.	4.72		6.32 *		5.83 *	
80	Stress	4.21	g	3.44 *	a	3.91 *	a
psf	Defl.	4.62		6.19 *		5.70 *	
85	Stress	4.09	g	3.24 *	a	3.68 *	a
psf	Defl.	4.53		6.06 *		5.59 *	
90	Stress	3.97	g	3.06 *	a	3.47 *	a
psf	Defl.	4.44		5.95 *		5.48 *	
95	Stress	3.87	g	2.90 *	a	3.29 *	a
psf	Defl.	4.36		5.84 *		5.39 *	
100	Stress	3.77	g	2.75 *	a	3.13 *	a
psf	Defl.	4.29		5.74 *		5.29 *	
105	Stress	3.68	g	2.62 *	a	2.98 *	a
psf	Defl.	4.22		5.65 *		5.21 *	

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 / 180.
3. Load/Span tables are based on #14 fasteners with 5/8" ø combination washers fastened to 16 Ga. minimum thickness steel structural girts.
4. Panel weight = 1.90 psf.
5. Key to failure modes:
   - a - Fastener pullout from structural girt.
   - b - Fastener pullover.
   - g - Panel bending.
   - j - Clip disengagement.
6. Oil canning within standard guidelines as determined by MCA is not a cause for rejection.
7. *Spans marked with an asterisk require negative load clips (part NLC-1) at each fastening point.

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

LOAD/SPAN TABLE - WIND LOADS FOR IW-40A - 18 Ga.

Also Applicable to 18 Ga.

IW-41A

CENTRIA

1 Fastener per Panel	14 Ga. Supports	I_{min} = 0.173 in^4/ft	Deflection @ L/180
Safety Factor = 2.50 (Fasteners)		S_{min} = 0.206 in^3/ft	F_y = 37 ksi

Load		Single Span	Double Span	Triple Span
20	Stress	12.34 * g	12.34 * g	13.79 * g
psf	Defl.	9.11	12.21 *	11.25
25	Stress	11.04 g	11.04 g	12.34 * g
psf	Defl.	8.46	11.33	10.44
30	Stress	10.07 g	10.07 g	11.26 g
psf	Defl.	7.96	10.67	9.83
35	Stress	9.33 g	9.33 g	10.43 g
psf	Defl.	7.56	10.13	9.34
40	Stress	8.72 g	8.72 g	9.75 g
psf	Defl.	7.23	9.69	8.93
45	Stress	8.23 g	8.23 g	9.20 g
psf	Defl.	6.95	9.32 *	8.59
50	Stress	7.80 g	7.80 g	8.72 g
psf	Defl.	6.71	9.00 *	8.29
55	Stress	7.44 g	7.16 a	8.13 a
psf	Defl.	6.50	8.71 *	8.03
60	Stress	7.12 g	6.56 a	7.45 a
psf	Defl.	6.32	8.47 *	7.80 *

Load		Single Span	Double Span	Triple Span
65	Stress	6.84 g	6.06 a	6.88 a
psf	Defl.	6.15	8.24 *	7.60 *
70	Stress	6.59 g	5.62 a	6.39 a
psf	Defl.	6.00	8.04 *	7.41 *
75	Stress	6.37 g	5.25 a	5.96 a
psf	Defl.	5.86	7.86 *	7.24 *
80	Stress	6.17 g	4.92 a	5.59 a
psf	Defl.	5.74	7.69 *	7.09 *
85	Stress	5.98 g	4.63 a	5.26 a
psf	Defl.	5.62	7.54 *	6.95 *
90	Stress	5.82 g	4.37 a	4.97 a
psf	Defl.	5.52	7.40 *	6.81 *
95	Stress	5.66 g	4.14 a	4.71 a
psf	Defl.	5.42	7.26 *	6.69 *
100	Stress	5.52 g	3.94 a	4.47 a
psf	Defl.	5.33	7.14 *	6.58 *
105	Stress	5.38 g	3.75 a	4.26 a
psf	Defl.	5.24	7.02 *	6.47 *

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 / 180.
3. Load/Span tables are based on #14 fasteners with 5/8" ø combination washers fastened to 14 Ga. minimum thickness steel structural girts.
4. Panel weight = 3.03 psf.
5. Key to failure modes:
   a - Fastener pullout from structural girt.
   b - Fastener pullover.
   g - Panel bending.
   j - Clip disengagement.
6. Oil canning within standard guidelines as determined by MCA is not a cause for rejection.
7. *Spans marked with an asterisk require negative load clips (part NLC-1) at each fastening point.

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

LOAD/SPAN TABLE - WIND LOADS FOR IW-40A - 20 Ga.

Also Applicable to 20 Ga.

IW-41A

CENTRIA

1 Fastener per Panel	16 Ga. Supports	I_{min} = 0.115 in^4/ft	Deflection @ L/180
Safety Factor = 2.50 (Fasteners)		S_{min} = 0.129 in^3/ft	F_y = 37 ksi

Load		Single Span		Double Span		Triple Span	
20	Stress	9.77	g	9.77	g	10.92	g
psf	Defl.	7.94		10.65		9.81	
25	Stress	8.74	g	8.74	g	9.77	g
psf	Defl.	7.37		9.88		9.11	
30	Stress	7.98	g	7.98	g	8.92	g
psf	Defl.	6.94		9.30		8.57	
35	Stress	7.39	g	7.39	g	8.26	g
psf	Defl.	6.59		8.84		8.14	
40	Stress	6.91	g	6.88	a	7.72	g
psf	Defl.	6.31		8.45	*	7.79	
45	Stress	6.51	g	6.12	a	6.95	a
psf	Defl.	6.06		8.13	*	7.49	
50	Stress	6.18	g	5.50	a	6.25	a
psf	Defl.	5.85		7.84	*	7.23	
55	Stress	5.89	g	5.00	a	5.69	a
psf	Defl.	5.67		7.60	*	7.00	*
60	Stress	5.64	g	4.59	a	5.21	a
psf	Defl.	5.51		7.38	*	6.80	*

Load		Single Span		Double Span		Triple Span	
65	Stress	5.42	g	4.23	a	4.81	a
psf	Defl.	5.36		7.19	*	6.62	*
70	Stress	5.22	g	3.93	a	4.47	a
psf	Defl.	5.23		7.01	*	6.46	*
75	Stress	5.05	g	3.67	a	4.17	a
psf	Defl.	5.11		6.85	*	6.32	*
80	Stress	4.89	g	3.44	a	3.91	a
psf	Defl.	5.00		6.71	*	6.18	*
85	Stress	4.74	g	3.24	a	3.68	a
psf	Defl.	4.90		6.57	*	6.06	*
90	Stress	4.61	g	3.06	a	3.47	a
psf	Defl.	4.81		6.45	*	5.94	*
95	Stress	4.48	g	2.90	a	3.29	a
psf	Defl.	4.73		6.33	*	5.84	*
100	Stress	4.37	g	2.75	a	3.13	a
psf	Defl.	4.65		6.23	*	5.74	*
105	Stress	4.26	g	2.62	a	2.98	a
psf	Defl.	4.57		6.13	*	5.65	*

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 / 180.
3. Load/Span tables are based on #14 fasteners with 5/8" ø combination washers fastened to 16 Ga. minimum thickness steel structural girts.
4. Panel weight = 2.28 psf.
5. Key to failure modes:
   - a - Fastener pullout from structural girt.
   - b - Fastener pullover.
   - g - Panel bending.
   - j - Clip disengagement.
6. Oil canning within standard guidelines as determined by MCA is not a cause for rejection.
7. *Spans marked with an asterisk require negative load clips (part NLC-1) at each fastening point.

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

LOAD/SPAN TABLE - WIND LOADS FOR IW-40A - 22 Ga.

Also Applicable to 22 Ga.

IW-41A

CENTRIA

1 Fastener per Panel	16 Ga. Supports	I_{min} = 0.088 in^4/ft	Deflection @ L/180
Safety Factor = 2.50 (Fasteners)		S_{min} = 0.097 in^3/ft	F_y = 37 ksi

Load		Single Span		Double Span		Triple Span	
20	Stress	8.45	g	8.45	g	9.45	g
psf	Defl.	7.29		9.76		9.00	
25	Stress	7.56	g	7.56	g	8.45	g
psf	Defl.	6.76		9.06		8.35	
30	Stress	6.90	g	6.90	g	7.72	g
psf	Defl.	6.36		8.53	*	7.86	
35	Stress	6.39	g	6.39	g	7.15	g
psf	Defl.	6.05		8.10	*	7.47	
40	Stress	5.98	g	5.98	g	6.68	g
psf	Defl.	5.78		7.75	*	7.14	*
45	Stress	5.64	g	5.64	* g	6.30	* g
psf	Defl.	5.56		7.45	*	6.87	*
50	Stress	5.35	g	5.35	* g	5.98	* g
psf	Defl.	5.37		7.19	*	6.63	*
55	Stress	5.10	g	5.00	* a	5.69	* a
psf	Defl.	5.20		6.97	*	6.42	*
60	Stress	4.88	g	4.59	* a	5.21	* a
psf	Defl.	5.05		6.77	*	6.24	*

Load		Single Span		Double Span		Triple Span	
65	Stress	4.69	g	4.23	* a	4.81	* a
psf	Defl.	4.92		6.59	*	6.08	*
70	Stress	4.52	g	3.93	* a	4.47	* a
psf	Defl.	4.80		6.43	*	5.93	*
75	Stress	4.37	g	3.67	* a	4.17	* a
psf	Defl.	4.69		6.29	*	5.79	*
80	Stress	4.23	g	3.44	* a	3.91	* a
psf	Defl.	4.59		6.15	*	5.67	*
85	Stress	4.10	g	3.24	* a	3.68	* a
psf	Defl.	4.50		6.03	*	5.56	*
90	Stress	3.99	g	3.06	* a	3.47	* a
psf	Defl.	4.41		5.91	*	5.45	*
95	Stress	3.88	g	2.90	* a	3.29	* a
psf	Defl.	4.33		5.81	*	5.35	*
100	Stress	3.78	g	2.75	* a	3.13	* a
psf	Defl.	4.26		5.71	*	5.26	*
105	Stress	3.69	g	2.62	* a	2.98	* a
psf	Defl.	4.19		5.62	*	5.18	*

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 / 180.
3. Load/Span tables are based on #14 fasteners with 5/8" ø combination washers fastened to 16 Ga. minimum thickness steel structural girts.
4. Panel weight = 1.90 psf.
5. Key to failure modes:
   - a - Fastener pullout from structural girt.
   - b - Fastener pullover.
   - g - Panel bending.
   - j - Clip disengagement.
6. Oil canning within standard guidelines as determined by MCA is not a cause for rejection.
7. *Spans marked with an asterisk require negative load clips (part NLC-1) at each fastening point.

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