



2000 NW 89 PL UNIT 102
DORAL, FL, 33172
WWW.CALCENG.COM



This item has been digitally signed and sealed by MASOOD HAJALI on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed, and the signature must be verified on any electronic copies.

Digitally signed by
MASOOD HAJALI
Date: 2025.03.21
07:26:07 -04'00'

3" x 0.024" x 1 LB			
ALLOWABLE LOAD (psf)	MAX. ALLOWABLE SPAN (LF)		
	L/80	L/120	L/180
10	17.09	16.7	14.12
20	12.08	12.08	10.56
30	9.86	9.86	8.63
40	8.54	8.54	5.87
50	7.64	7.64	3.46
60	6.24	6.24	-
70	5.77	5.77	-
80	5.4	5.4	-

4" x 0.024" x 1 LB			
ALLOWABLE LOAD (psf)	MAX. ALLOWABLE SPAN (LF)		
	L/80	L/120	L/180
10	18.84	18.84	16.83
20	13.22	13.22	12.52
30	10.55	10.55	10.33
40	9.01	9.01	8.91
50	7.24	7.24	6.88
60	6.57	6.57	6.28
70	6.08	6.08	4.81
80	5.66	5.66	2.43

6" x 0.024" x 1 LB			
ALLOWABLE LOAD (psf)	MAX. ALLOWABLE SPAN (LF)		
	L/80	L/120	L/180
10	21.79	21.79	21.79
20	15.17	15.17	15.17
30	11.61	11.61	11.61
40	9.67	9.67	9.67
50	7.85	7.85	7.85
60	6.81	6.81	6.81
70	6.47	6.47	6.27
80	6.18	6.18	5.78

3" x 0.024" x 2LB			
ALLOWABLE LOAD (psf)	MAX. ALLOWABLE SPAN (LF)		
	L/80	L/120	L/180
10	18.43	17.02	14.66
20	12.98	12.98	11.24
30	10.54	10.54	9.53
40	9.1	9.1	8.43
50	7.38	7.38	6.73
60	6.73	6.73	6.14
70	6.23	6.23	5.69
80	5.83	5.83	4.32

4" x 0.024" x 2 LB			
ALLOWABLE LOAD (psf)	MAX. ALLOWABLE SPAN (LF)		
	L/80	L/120	L/180
10	20.94	20.94	18.06
20	15.34	15.34	13.89
30	12.72	12.72	11.81
40	11.11	11.11	10.47
50	9.46	9.46	8.35
60	8.25	8.25	7.08
70	7.63	7.63	6.55
80	7.15	7.15	6.13

6" x 0.024" x 2LB			
ALLOWABLE LOAD (psf)	MAX. ALLOWABLE SPAN (LF)		
	L/80	L/120	L/180
10	27.29	27.17	23.49
20	18.4	18.4	18.15
30	14.33	14.33	14.33
40	12.07	12.07	12.07
50	9.83	9.83	9.83
60	8.59	8.59	8.59
70	7.86	7.86	7.86
80	7.3	7.3	7.3



2000 NW 89 PL UNIT 102
DORAL, FL, 33172
WWW.CALCENG.COM

3" x 0.024" x 1.5LB			
ALLOWABLE LOAD (psf)	MAX. ALLOWABLE SPAN (LF)		
	L/80	L/120	L/180
10	19.37	16.8	14.43
20	14.11	12.91	10.96
30	11.67	10.96	9.22
40	10.19	9.71	8.09
50	9.16	8.8	7.27
60	7.54	7.54	6.64
70	7	7	6.12
80	6.56	6.56	5.69

4" x 0.024" x 1.5 LB			
ALLOWABLE LOAD (psf)	MAX. ALLOWABLE SPAN (LF)		
	L/80	L/120	L/180
10	20.08	20.08	17.52
20	15.4	15.4	13.37
30	13.05	13.05	11.3
40	11.55	11.55	9.95
50	10.49	10.49	8.98
60	8.76	8.76	8.22
70	8.18	8.18	7.6
80	7.7	7.7	7.09

6" x 0.024" x 1.5 LB			
ALLOWABLE LOAD (psf)	MAX. ALLOWABLE SPAN (LF)		
	L/80	L/120	L/180
10	21.8	21.8	21.8
20	17.49	17.49	17.49
30	15.13	15.13	15.13
40	13.57	13.57	13.57
50	12.43	12.43	12.43
60	10.54	10.54	10.54
70	9.88	9.88	9.88
80	9.33	9.33	9.33

3" x 0.032" x 1.5 LB			
ALLOWABLE LOAD	MAX. ALLOWABLE SPAN (LF)		
	L/80	L/120	L/180
10	19.69	16.98	14.57
20	14.59	13.03	11.06
30	13.06	12.06	10.3
40	10.52	9.79	8.16
50	9.45	8.87	7.33
60	7.78	7.78	6.68
70	7.22	7.22	6.15
80	6.77	6.77	5.72

4" x 0.032" x 1.5 LB			
ALLOWABLE LOAD	MAX. ALLOWABLE SPAN (LF)		
	L/80	L/120	L/180
10	22.37	21.23	18.25
20	17.28	16.34	13.9
30	15.25	14.9	12.72
40	12.42	12.33	10.31
50	11.15	11.15	9.28
60	9.16	9.16	8.49
70	8.5	8.5	7.84
80	7.97	7.97	7.3

6" x 0.032" x 1.5 LB			
ALLOWABLE LOAD	MAX. ALLOWABLE SPAN (LF)		
	L/80	L/120	L/180
10	24.94	24.94	23.71
20	20.51	20.51	18.18
30	18.19	18.19	16.41
40	15.13	15.13	13.63
50	13.67	13.67	12.33
60	11.35	11.35	11.33
70	10.57	10.57	10.51
80	9.93	9.93	9.83



This item has been digitally signed and sealed by MASOOD HAJALI on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed, and the signature must be verified on any electronic copies.

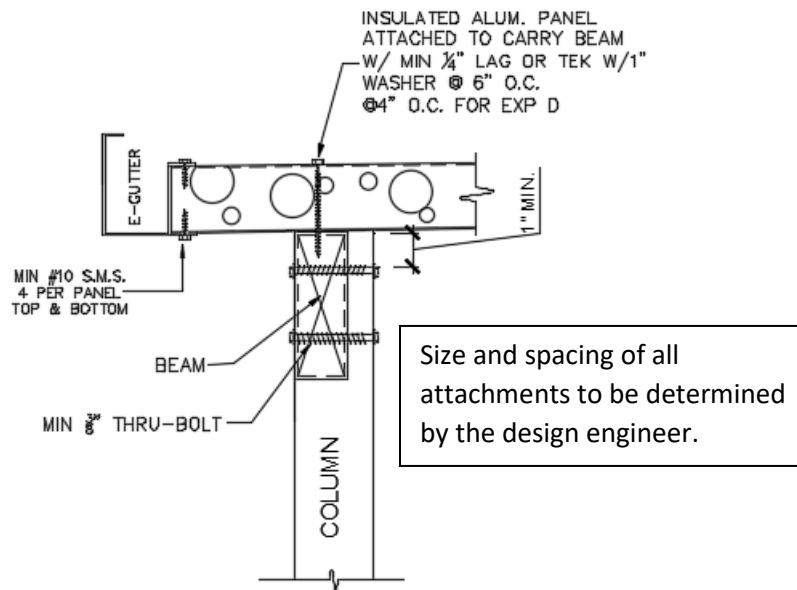
Digitally
signed by
MASOOD
HAJALI
Date:
2025.03.21
07:25:56
-04'00'



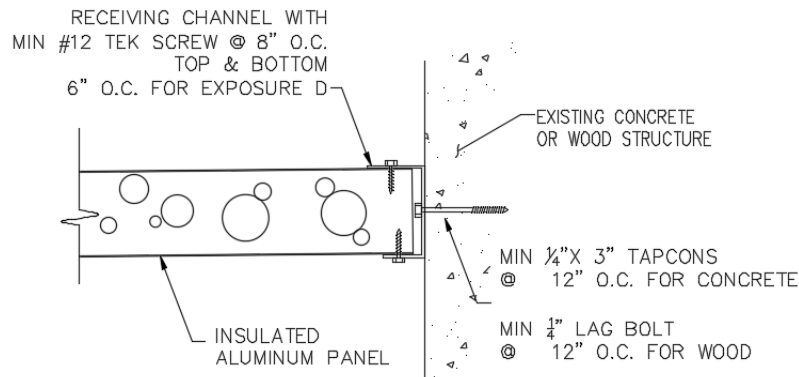
2000 NW 89 PL UNIT 102
DORAL, FL, 33172
WWW.CALCENG.COM



Digitally signed by
MASOOD HAJALI
Date: 2025.03.21
07:25:47 -04'00'



BEAM TO COLUMN ATTACHMENT



INSULATED PANEL TO CBS WALL

1. Panels can be used as roof section for outdoor terrace applications, non-habitable area, for exterior use only per FBC

2023 section 1616. Panels cannot be used for habitable areas unless impact protection provided.

2. This is a composite Aluminum panel roof product, Insulated EPS-Aluminum Roof Panel, in size of 3", 4" and 6" for allowable loadings from 10 psf to 80 psf.
3. The insulated panel was formed by using two embossed rolled formed aluminum skins on the top and the bottom with expanded polystyrene with different density as specified above in our tables. The top and bottom skin were rolled formed to create a male end and a female end.
4. This specification has been designed and shall be manufactured in accordance with the requirements of the Florida Building Code 2023, 8th Edition and ASCE 7-22.
5. Panels tested under ASTM E72-15 (for long span) by HURRICANE ENGINEERING & TESTING INC, Report numbers provided to Calc Engineering was HETI-21-7139, HETI-21-7141, HETI-21-7140, HETI-21-7142, HETI-22-7182, HETI-22-7183, HETI-23-8008, HETI-23-8009, HETI-23-8010, HETI-23-8011, HETI-23-8012, and HETI-23-8013. For the short span panels tested under ASTM E72-22.
6. Note that two editions and test procedure of ASTM E72-22 and ASTM E72-15 are the same per document provided by HURRICANE ENGINEERING & TESTING INC.
7. This product is not impact resistant.
8. Safety factor of 2.0 has been used to develop allowable loads and spans from testing in accordance with the guidelines for Aluminum Structures Part 1 and conforms to the FBC Chapter 16 and 20. The allowable loads and spans are not permitted to be adjusted for different load durations.
9. Testing has been conducted by Hurricane and Engineering Testing Inc.
10. Linear interpolation shall not be allowed for figures within the tables shown. When required, the design engineer shall consider the shorter span corresponding to the next higher load in the table.
11. Altering or modifying the integrity of the panels is prohibited and will result in the invalidation of this certification.



2000 NW 89 PL UNIT 102
DORAL, FL, 33172
WWW.CALCENG.COM

12. The maximum allowable overhang in the front is 2.0 ft.
13. The sizes and spacing of the screws and bolts shown in the figures are minimum requirements. The architect or engineer is responsible for all attachments design and selection of the proper panel based on appropriate loads.
14. It is the responsibility of the contractor to insulate aluminum members from dissimilar metals to prevent electrolysis.
15. Composite panels shall be constructed using type 3105-H24 aluminum facings, 1 or 2 PCF expanded polystyrene adhere to aluminum facings using SOLTHERM ADHESIVO 410 Two-part Polyurethane blend. Fabrication of panels only in accordance with approved fabrication methods.
16. The glue/bonding agent shall be applied properly to secure the foam joints and avoid sections from being unbonded or unglued.
17. Composite panels must comply with Chapter 7 Section 720, Chapter 8 Section 803, class A interior finish, and Chapter 26, section 2603 of FBC 2023.
18. All local building code amendments shall be adhered to as required.
19. Deflection limits and allowable spans have been listed to meet FBC including the HVHZ ASCE 7-22.
20. This product cannot be used as a roof for habitable areas.
21. All span tables calculated based on failure modes of experimental tests. Any other failure mode requires further investigation and analysis.
22. Contractors must check and adhere to all the site-specific county regulations and building codes. It is the responsibility of the contractor or owner to verify building requirements and codes before construction.
23. The design of all structural members, all attachments, and design loads, using the data from allowable load tables and spans in this approval are by the engineer. Any spans not included in the above tables are not acceptable.
24. Design professionals to check for the weight of the Fans and lights or any other imposing loads being installed by the roof.

25. This document shall not be altered otherwise it will result in the invalidation of this certification.
26. All connections and attachments to be design by engineer of the project based on wind zone and size of the structure.

MANUFACTURER

Classic Metal Industries SRL Nave 37, Zona Franca de Tamboril,
51000, Santiago de los Caballeros, Dominican Republic
VASCO@CLASSICMETALS.US
TEL: 809-903-5243

EVALUATION ENTITY

CALC ENGINEERING LLC
2000 NW 89 PL #102 DORAL FL 33172
CALCENGINEERING@GMAIL.COM
MASOOD@CALCENG.COM
TEL: 305-898-9995

TESTING LABORATORY

HURRICANE ENGINEERING & TESTING INC
6120 NW 97th Avenue, Doral, Florida, 33178
Phone 305-597-5590



This item has been digitally signed and sealed by MASOOD HAJALI on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed, and the signature must be verified on any electronic copies.

Digitally signed
by MASOOD
HAJALI
Date: 2025.03.21
07:25:33 -04'00'