

3301 PAUL BUCHMAN HWY  
PLANT CITY, FL 33565

## 26 Ga. PBR Wall Panel

**METAL SYSTEMS, INC.**

**PBR WALL PANEL**

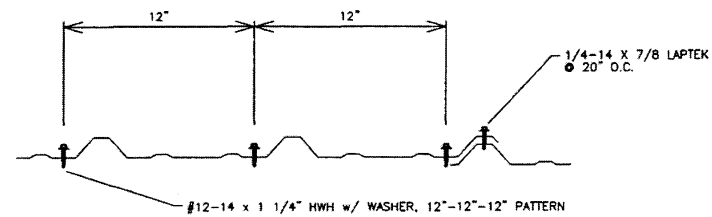
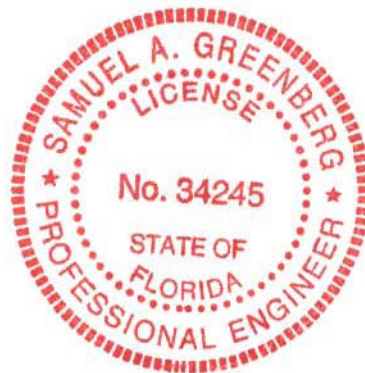
| ALLOWABLE UNIFORM LOADS IN POUNDS PER SQUARE FOOT |                    |             |       |      |      |       |      |      |      |      |
|---------------------------------------------------|--------------------|-------------|-------|------|------|-------|------|------|------|------|
| PBR 26 Gauge (Fy = 80 KSI)                        |                    |             |       |      |      |       |      |      |      |      |
| SPAN TYPE                                         | LOAD TYPE          | SPAN (FEET) |       |      |      |       |      |      |      |      |
|                                                   |                    | 3.0         | 3.5   | 4.0  | 4.5  | 5.0   | 5.5  | 6.0  | 6.5  | 7.0  |
| SINGLE                                            | NEGATIVE WIND LOAD | 154.0       | 113.2 | 86.7 | 68.5 | 55.0  | 44.1 | 34.0 | 25.0 | 20.0 |
|                                                   | POSITIVE WIND LOAD | 113.8       | 83.7  | 64.0 | 50.7 | 41.0  | 33.8 | 26.5 | 20.8 | 16.7 |
| 2-SPAN                                            | NEGATIVE WIND LOAD | 113.8       | 83.7  | 64.0 | 50.7 | 41.0  | 33.8 | 28.5 | 24.2 | 20.8 |
|                                                   | POSITIVE WIND LOAD | 112.0       | 82.7  | 63.5 | 50.2 | 40.7  | 33.7 | 28.3 | 24.2 | 20.8 |
| 3-SPAN                                            | NEGATIVE WIND LOAD | 142.3       | 104.5 | 80.0 | 63.2 | 79.2  | 42.3 | 35.5 | 30.3 | 26.2 |
|                                                   | POSITIVE WIND LOAD | 139.2       | 102.8 | 79.0 | 62.7 | 100.0 | 42.0 | 35.3 | 30.2 | 26.0 |
| 4-SPAN                                            | NEGATIVE WIND LOAD | 132.8       | 97.7  | 78.0 | 60.0 | 47.8  | 39.5 | 33.2 | 28.3 | 24.3 |
|                                                   | POSITIVE WIND LOAD | 130.2       | 96.2  | 73.8 | 58.5 | 47.5  | 39.3 | 33.0 | 28.2 | 24.3 |

NOTES:

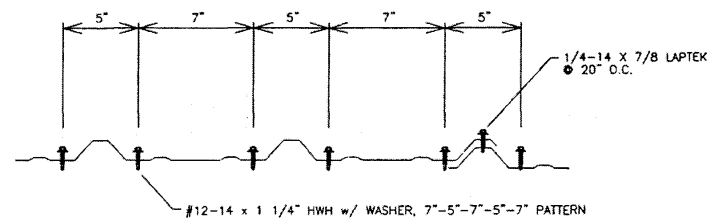
- 1) Section properties and allowable loads were computed in accordance with the 2001 edition of the North American Specification For Design Of Cold-Formed Steel Structural Members.
- 2) Allowable loads are based on uniform span lengths,  $l = 0.185l_s$ ,  $F_y = 80$  ksi but reduced to 60 ksi for design per AISI.
- 3) POSITIVE LOAD is limited by bending, shear, combined shear & bending and web crippling and deflection of  $L/120$ .
- 4) NEGATIVE WIND LOAD is limited by bending, shear, combined shear and bending and deflection of  $L/120$ .
- 5) NEGATIVE WIND LOAD Deflection has been increased by 8% per FBC 2010 Table 1604.3.
- 6) NEGATIVE WIND LOAD does not consider fastener pullout or pullover.
- 7) The weight of the panel has not been deducted from the allowable loads.
- 8) The panel was tested in accordance with ASTM E 1552-03 for positive and negative loading at 3 spans @ 5'-0" O.C. Test Report #120-0475-08 by Force Engineering & Testing.
- 9) The pressure shown above is Ultimate Strength Design Pressures for allowable / nominal Design Pressure shall be permitted to be multiplied by 0.6.

This item has been digitally signed and sealed  
by **Samuel A. Greenberg, PE** on **06/09/2021** using a  
Digital Signature.

Printed copies of this document are not considered Signed and sealed and the SHA authentication code must be verified on any electronic copies.



### FASTENER PATTERN FOR INTERIOR SUPPORTS



FASTENER PATTERN FOR PANEL END AND PANEL END LAPS

## INDEX OF DRAWINGS

|     |                       |                    |
|-----|-----------------------|--------------------|
| 1.1 | 26 Ga. PBR Wall Panel | PRODUCT APPROVAL   |
| 2.1 | 26 Ga. PBR Wall Panel | DETAILS & SECTIONS |
| 3.1 | 26 Ga. PBR Wall Panel | DETAILS & SECTIONS |



**M**ETAL  
**S**YSTEMS  
**I**NC.

813-752-7088  
www.metal-systems-inc.com

Metal Systems, Inc.  
Product Approval  
26 Ga. PBR Wall Panel

[illegible]

☒ SAMUEL A. GREENBERG,  
P.E. #34245

☐ THUY H. HUYNH,  
P.E. #60122

☐ IRWIN J. BENSON,  
P.E. #49758

ENGINEER SEAL:

**SHEET TITLE:**  
26 Ga. PBR Wall Panel  
**PRODUCT APPROVAL**

**SHEET INFORMATION:**  
JOB NO.: 320678  
DATE ISSUED: 07.19.12  
DRAWN BY: AR  
REVIEWED BY: AS

## 1.1