



**PRODUCT EVALUATION REPORT
DOUBLELOK PANEL**

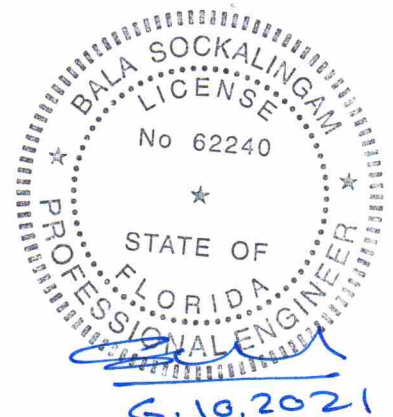
**FLORIDA BUILDING CODE 7TH EDITION (2020)
FLORIDA PRODUCT APPROVAL
FL 11819.3-R5
STRUCTURAL COMPONENTS
ROOF DECK**

Prepared For:
MBCI, part of the Cornerstone Building Brands family.
14031 West Hardy
Houston, TX 77064
Telephone: (844) 327-1748
Fax: (281) 445-8110

Prepared By:
Bala Sockalingam, Ph.D., P.E.
Florida Professional Engineer #62240
1216 N Lansing Ave., Suite C
Tulsa, OK 74106
Telephone: (918) 492-5992
FAX: (866) 366-1543

This report consists of
Evaluation Report (3 Pages including cover)
Installation Details (1 Page)

Report No. C2481-3
Date: 6.10.2021



Manufacturer:	MBCI, part of the Cornerstone Building Brands family.
Manufacturing Locations:	Houston: 14031 West Hardy, Houston, TX 77064 Atlanta: 2280 Monier Ave., Lithia Springs, GA 30122 Adel: 1600 Rogers Road, Adel, GA 31620
Product Name:	DoubleLok Panel
Panel Description:	Standing seam panel with 12", 18" or 24" wide coverage and 3" high ribs
Materials:	Min. 24 ga., 50 ksi steel. Galvanized coated steel (ASTM A653) or Galvalume coated steel (ASTM A792) or painted steel (ASTM A755). Corrosion resistant as per FBC 2020 Section 1507.4.3.
Support Description:	Min. 16 ga., 50 ksi steel section or FL P.E. designed equal support per FBC 2020.
Slope:	1/4:12 or greater in accordance with FBC 2020 Section 1507.4.2.
Uplift Pressure:	For min 24 ga. panels (Includes a factor of safety of 2)
Without Wind Clamps	DoubleLok 24: -37.5 psf at clip spacing of 60" o.c. -98.5 psf at clip spacing of 12" o.c. DoubleLok 18: -35.8 psf at clip spacing of 60" o.c. -50.1 psf at clip spacing of 30" o.c. DoubleLok 12: -53.9 psf at clip spacing of 60" o.c. -72.3 psf at clip spacing of 30" o.c.
With Wind Clamps	DoubleLok 24: -53.8 psf at clip spacing of 60" o.c. -176.5 psf at clip spacing of 12" o.c. DoubleLok 18: -60.0 psf at clip spacing of 60" o.c. -177.5 psf at clip spacing of 12" o.c. DoubleLok 12: -92.5 psf at clip spacing of 60" o.c. -220.0 psf at clip spacing of 12" o.c.
Panel Attachment:	HW-2122 or HW-2124 sliding clip with (2) 1/4"-14 x 1.25" long self-drilling screws per clip. Clips and fasteners are corrosion resistant as per FBC 2020 Section 1506.7 and 1507.4.4, respectively.
Panel Rib Wind Clamp:	S-5! DL Wind Clamp (HW-568) at every panel clip location (optional).
Test Standards:	Roof assembly tested in accordance with ASTM E1592-95 and E1592-01 'Test Method for Structural Performance of Sheet Metal Roof and Siding Systems by Uniform Static Air Pressure Difference' and FM 4471 Section 5.4 'Resistance to Foot Traffic'.

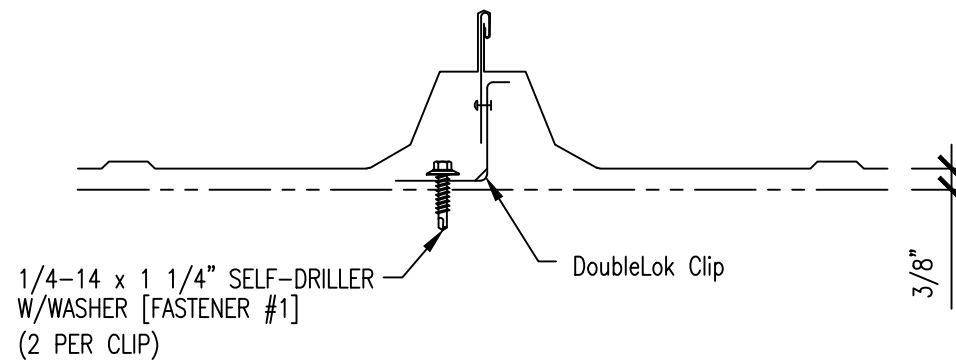
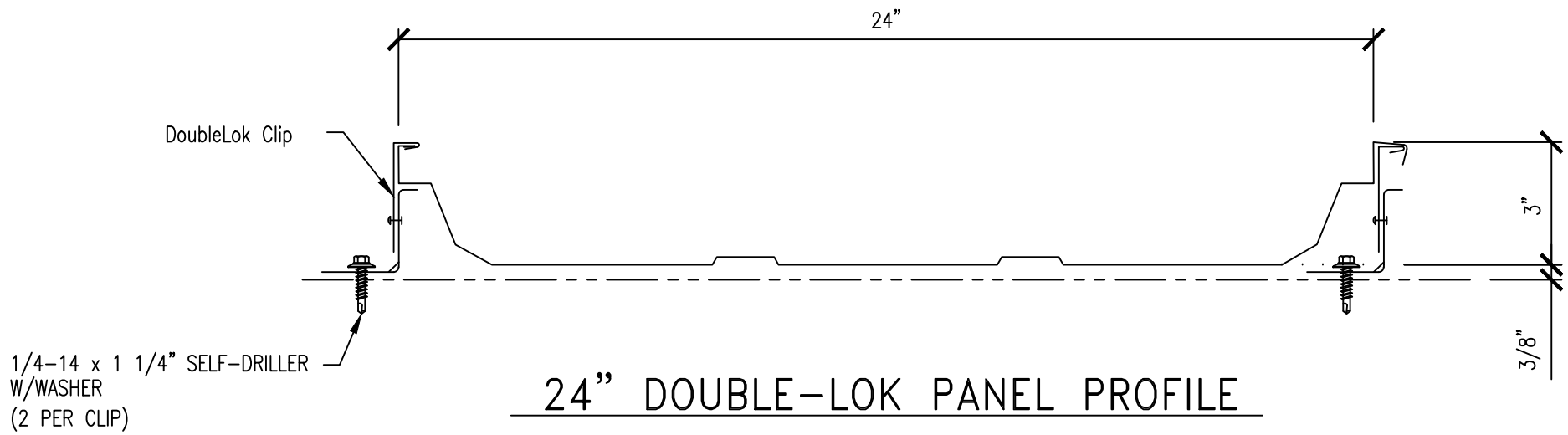
Test Equivalency: The test procedure in ASTM E1592-95 and E1592-01 comply with test procedure prescribed in ASTM E1592-05(2012).

Code Compliance: The product described herein has demonstrated compliance with FBC 2020 Section 1507.4.

Product Limitations: Design wind loads shall be determined for each project in accordance with FBC 2020 Section 1609 or ASCE 7-16 using allowable stress design. The design pressure for other clip spacing may be computed using rational analysis prepared by a Florida Professional Engineer. This evaluation report is not applicable in High Velocity Hurricane Zone. Fire classification is not within scope of this Evaluation Report. Refer to FBC 2020 Section 1505 and current approved roofing materials directory or ASTM E108/UL790 report from an accredited laboratory for fire ratings of this product.

Supporting Documents: ASTM E1592 Test Reports
Force Engineering & Testing, Inc.
07-0129T-06 A-L, Reporting Date: 7/12/2006
07-0248T-08 E, F, Reporting Date: 7/30/2008
Farabaugh Engineering and Testing, Inc.
T157-98, Reporting Date: 5/1/1998
T220-98, Reporting Date: 10/2/1998

FM 4471 Test Report
FM Approvals
Project ID 3005245, Reporting Date 7/24/2000



CROSS SECTION AFTER SEAMING

Double-Lok E

S-5!™ DL WINDCLAMP
[HW-568]

