

Evaluation of Hi-Rib Roof Panels - 23-DrJ-0289
October 16, 2023

Mr. Brian Long
Morton Buildings, Inc.
252 W. Adams Street
PO Box 399
Morton, IL 61550

Re: Evaluation of Hi-Rib Steel Roof Panels

Dear Mr. Long:

DrJ Engineering, LLC (DrJ) has been asked to provide a Florida professional engineering accepted engineering practice review with respect to the Hi-Rib Roof Panels. This work has been performed pursuant to our areas of expertise. The purpose of the DrJ review is to provide an engineering assessment of the conformance of the Hi-Rib Roof Panel with the 2023 Florida Building Code (FBC).

Hi-Rib Steel Roof Panels conform to Section 1507.4 and Section 2210 of the 2023 FBC. The panels were tested via UL-580: Tests for Uplift Resistance of Roof Assemblies by Architectural Testing, Inc. Hi-Rib panels have a minimum thickness of 0.020" and have a coverage width of 36". On the panel edges and every 12" widthwise, the panel has a 1" half circle rib. Installation shall be to wooden purlins that have a max spacing of 24" o.c. and a minimum slope of 2:12 using proprietary #9 x 2" pan head screws and a 7/16" diameter bonded stainless steel washer below the screw head.

The maximum allowable design wind uplift/gravity for this product can be found below in Table 1. The design pressure and wind speed conform with the requirements of the FBC.

Table 1. Allowable Design Wind Uplift

Product	Allowable Design Wind Uplift/Gravity (psf)
Hi-Rib Steel Roof Panels	75

This panel may be used on Risk Category I, II, III and IV buildings. This panel is not available for use in High-Velocity Hurricane Zones.

DrJ's procedures are fully compliant with the ISO/IEC 17065 certification process and DrJ's scope of expertise.

If there are any additional questions or concerns, we will gladly provide a Florida professional engineering¹ and ANAB ISO/IEC 17065 accredited² approved agency response. Pursuant to the 2023 FBC Section 1707.1³ we would sincerely appreciate knowing the specific sections of the adopted building code and/or professional engineering law that this engineering evaluation does not comply with so that we can cure any non-compliance. From specifics, we can then delineate a path forward for everyone involved to cure any violations, as this will serve everyone's free and fair market competition's best interests.

¹ APPROVED SOURCE. An independent person, firm or corporation, approved by the building official, who is competent and experienced in the application of engineering principles to materials, methods or systems analyses. https://up.codes/viewer/florida/fl-building-code-2023/chapter/2/definitions#approved_source

² APPROVED AGENCY. An established and recognized agency that is regularly engaged in conducting tests, furnishing inspection services or furnishing product certification where such agency has been approved by the building official. https://up.codes/viewer/florida/fl-building-code-2023/chapter/2/definitions#approved_agency

³ In the absence of approved rules or other approved standards, the building official shall make, or cause to be made, the necessary tests and investigations; or the building official shall accept duly authenticated reports from approved agencies in respect to the quality and manner of use of new materials or assemblies. The cost of all tests and other investigations required under the provisions of this code shall be borne by the owner or the owner's authorized agent.



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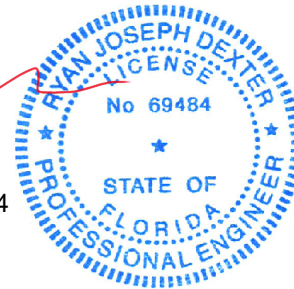


Our goal with the foregoing analysis is to provide both the accepted engineering analysis and regulatory compliance substance to support a systematic path to approval. Please contact us if we can help further in any way. If your request is time-sensitive, please contact Jill Zimmerman at (920) 988-7165. Thank you very much.

Respectfully yours,

Larry Wainright
Vice President Product Certification
608-310-6742

Ryan Dexter, P.E.
Florida P.E. No. 69484
Vice President
608-310-6744



DrJ Engineering, LLC
Certificate of Authorization #29766

RYAN J
DEXTER

Digitally signed by RYAN J DEXTER
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