

FF1000 1" FASTENING FLANGE SNAP LOCK PANEL





File R18721 Project 11NK16546

January 13, 2012

REPORT

on

Metal Roof Deck Panels For Wind Uplift Resistance

Under The

CLASSIFICATION PROGRAM

ZIMMERMAN METALS INC. DENVER, CO

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Issued: 2012-01-13

DESCRIPTION

PRODUCT COVERED:

The products covered by this Report are metal roof deck panels designated "FF-1000".

The products in this Report are Classified as to uplift resistance only.

USE:

The products are intended for use as building materials as permitted by authorities having jurisdiction.

Issued: 2012-01-13

TEST RECORD NO. 1

SAMPLE:

Classified metal roof deck panels designated "FF-1000" panels.

STUDY FOR CLASSIFICATION PURPOSES:

Testing of the metal roof deck panels designated "FF-1000", for use in Uplift Resistance Was not considered necessary based upon previous test experience on similar products as documented internally in Test Reference No. 1.

TEST RECORD 1 SUMMARY:

The results of this investigation indicate that the metal panels evaluated in this test record comply with applicable requirements, and therefore, are judged to be eligible for Classification under the Laboratories product categories of Uplift Resistance (TJPV).

Standard	Title	Edition or Publication Date	Latest Revision Date
UL 580	Tests for Uplift Resistance of Roof Assemblies	Fifth	November 2, 2006

The Classification Mark for the TJPV category (UL 580) to be used on the "FF-1000" panels is illustrated below:

METAL ROOF DECK PANELS AS TO UPLIFT RESISTANCE CLASS 90

AS SHOWN BY CONSTRUCTION NO. 529
SEE UL ROOFING MATERIALS AND SYSTEMS DIRECTORY

Test Record 1 By:

Reviewed by:

JUDITH G. MARZULLO Lead Engineering Associate

Fire Protection Division

KENNETH RHODES Senior Staff Engineer Fire Protection Division

Leweth Rhods

CONCLUSION:

Samples of the products covered by this Report have been found to comply with the requirements covering the category and the products are found to comply with UL's applicable requirements. The description and test result in this Report are only applicable to the samples investigated by UL and does not signify the products described as being covered under UL's Follow-Up Service Program. When covered under UL's Follow-Up Service Program, the manufacturer is authorized to use the UL Classification Mark on such products which comply with UL's Follow-Up Service Procedure and any other application requirements of Underwriters Laboratories Inc. The Classification Mark of Underwriters Laboratories Inc. on the product, or the UL symbol on the product and the Classification Mark on the smallest unit container in which the product is packaged, is the only method to identify products investigated by UL to published requirements and manufactured under UL's Classification and Follow-Up Service.

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Report by:

JUDITH G. MARZULLO

Lead Engineering Associate Fire Protection Division

Judie Attorille

Reviewed by:

KENNETH RHODES Senior Staff Engineer

Kenneth Rholes

Fire Protection Division

DESCRIPTION

PRODUCT COVERED:

This section of the Procedure covers coated steel roof panels, which are identified by the manufacturer as "FF-1000", 1 in. high panels.

The panels are roll-formed from $26\ \mathrm{MSG}$ or heavier gauge steel to the configuration shown in Ill. 1.

The panels may also have a paint finish over the coating.

SPECIFICATIONS OF FINISHED PRODUCT:

THICKNESS

The metal thickness of the steel used in the fabrication of the panels shall be not less than 0.0185 in. (26 MSG min).

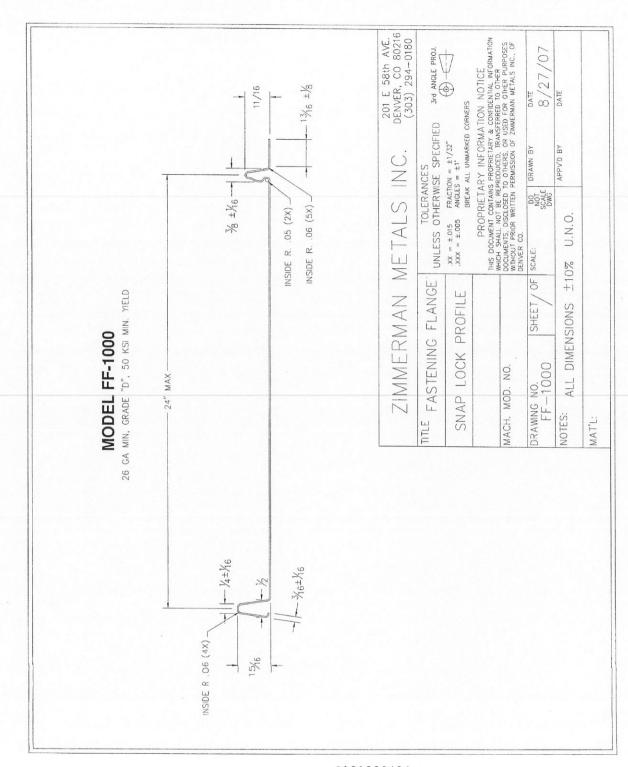
DIMENSIONS

The cross sectional dimensions of the finished panel shall be in accordance with the cross section in Ill. 1.

The panels are made in any convenient length.

STRENGTH

The strength records of the steel shall be reviewed. The steel used shall conform to ASTM A653, Grade 50 specifications or the minimum yield point of the steel shall be 50,000 psi.



C121230424



ONLINE CERTIFICATIONS DIRECTORY

Construction No. 529 TGKX.529 Roof Deck Constructions

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Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Listed or Classified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered as Classified, Listed, or Recognized.

Roof Deck Constructions

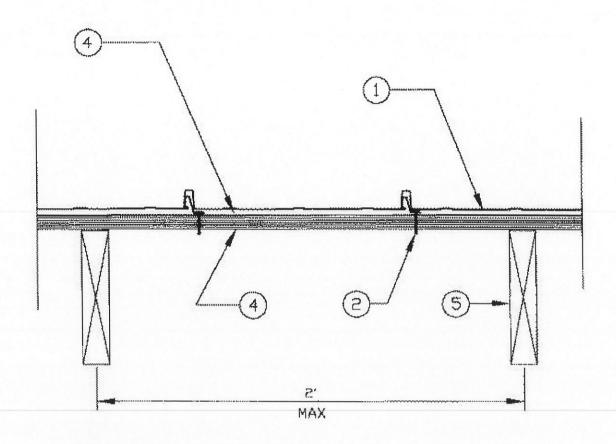
See General Information for Roof Deck Constructions

Construction No. 529

January 17, 2012

Uplift - Class 90

Fire Not Investigated



1. **Metal Roof Deck Panels*** — No. 29 MSG min coated steel. Max panel width 24 in. Rib height nominal 1 in. Panels continuous over two or more spans. A bead of sealant may be used at panel endlaps.

AMERICAN BUILDING COMPONENTS (View Classification) - "SL-16"

AUSTIN SNAP LOC SUPPLY (View Classification) — "ASL 100"

B & T METAL WORKS INC (View Classification) — "BT Snap Lock"

 $\textbf{CENTRAL TEXAS METAL ROLLFORMING INC} \ \underline{(View \ Classification)} - \text{"PRO-SNAP 100"}$

CONSOLIDATED SYSTEMS INC (View Classification) — "CF1"

 $\textbf{DAVIESS COUNTY METAL SALES INC } \underline{(\textit{View Classification})} - "Panel Lock"$

DREXEL METALS INC (View Classification) — "DMC 100NS"

EAGLE METALS MFG INC — "Eagle Metals Nail-strip Panel"

 $\textbf{FABRAL INC } \underline{\text{(View Classification)}} - \text{"Climaguard"}$

MBCI (View Classification) — "Slimline"

MCELROY METAL MILL INC (View Classification) — "Meridian"

METAL SALES MFG CORP (View Classification) — "Image II"

NCI BUILDING SYSTEMS L P (View Classification) — "Slimline"

SAN ANTONIO QUALITY METALS (View Classification) — "NS-100"

NEW TECH MACHINERY CORP (View Classification) — "FF100"

PREMIUM PANELS INC (View Classification) - "Premium Snap 100ns" or "P.S. 100ns"

SCHULTE ROOFING INC (View Classification) — "FF100"

SHEFFIELD METALS INTERNATIONAL (View Classification) — "CR-100-NS"

TAYLOR METAL INC (View Classification) - "EASY LOCK"

UNION CORRUGATING CO (View Classification) — "Advantage Lok"

WHIRLWIND STEEL BUILDINGS INC (View Classification) — "Weather-Guard"

ZIMMERMAN METALS INC (View Classification) - "FF-1000"

- 2. **Fasteners (Screws)** For panel attachment to wood deck (Item 3), fasteners to be No. 10 x 1 in. long No. 2 Phillips, Pancake Head Type A. Fasteners spacing to be 12 in. OC with fasteners installed through prepunched slots in fastener flange of panel. For attachment of plywood deck (Item 3) to joists (Item 5), fasteners to be min. No. 6 by 1-7/8 bugle head screw or annular ring-shank nails. Spacing to be 6 in. OC at plywood edges and 12 in. OC at intermediate supports. When light gauge structural steel joists are used, fasteners to be No. 12 by 1-5/8 in. long with a Phillips head.
- 3. **Substructure (Plywood)** Plywood decking to be a nom 5/8 in. thick, exposure sheathing span C-D, 40/20 plywood. All butt joints to be sealed against leakage by using tape and/or caulk or with one-part urethane sealant.
- 4. **Moisture Barrier** (Optional) Any suitable membrane to protect substructure (Item 3).
- 5. Joists Joists spaced at 2 ft, 0 in. OC, may be one of the following:
 - A. Nom 2 by 6 in. wood joists No. 2 or better.
 - B. Nom 2 by 4 in. wood when used on a top cord of a wood truss, No. 2 or better.
 - C. Light gauge structural steel framing with the member against the plywood to be a min No. $22\,$ MSG coated steel.

Refer to General Information, Roof Deck Construction, (Roofing Materials and Systems Directory) for Items Not Evaluated.

*Bearing the UL Classification Mark

Last Updated on 2012-01-17

Questions? Print this page

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