



**BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION**

**MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908**

NOTICE OF ACCEPTANCE (NOA)

**Copper Sales, Inc. DBA CSI Delcoa
1950 NW 18th Street
Pompano Beach, FL 33069**

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by the BCCO and accepted by the Building Code and Product Review Committee to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The BCCO (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BCCO reserves the right to revoke this acceptance, if it is determined by BCCO that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the South Florida Building Code, 1994 Edition for Miami-Dade County or Florida Building Code.

DESCRIPTION: CSI Delcoa DSS/UC3-12 through DSS/UC3-24

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA consists of pages 1 through 9.
The submitted documentation was reviewed by Frank Zuloaga, RRC



**NOA No.: 01-1001.05
Expiration Date: 04/14/03
Approval Date: 11/21/01
Page 1 of 9**

ROOFING SYSTEM APPROVAL:

<u>Category:</u>	Roofing
<u>Sub-Category:</u>	Metal, Panels(Non-Structural)
<u>Material:</u>	Steel
<u>Deck Type:</u>	Wood
<u>Maximum Design Pressure</u>	-62.5 psf

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

<u>Product</u>	<u>Dimensions</u>	<u>Test Specifications</u>	<u>Product Description</u>
DSS/UC3-24	l = various w = 24" min. 24 gage (0.024") (panels are cut to appropriate length)	PA 110	Corrosion resistant, galvalume or galvanized, preformed, standing seam, coated, prefinished, metal panels.
DSS/UC3-20	l = various w = 20" min. 24 gage (0.024") (panels are cut to appropriate length)	PA 110	Corrosion resistant, galvalume or galvanized, preformed, standing seam, coated, prefinished, metal panels.
DSS/UC3-16	l = various w = 16" min. 24 gage (0.024") (panels are cut to appropriate length)	PA 110	Corrosion resistant, galvalume or galvanized, preformed, standing seam, coated, prefinished, metal panels.
DSS/UC3-12	l = various w = 12" min. 24 gage (0.024") (panels are cut to appropriate length)	PA 110	Corrosion resistant, galvalume or galvanized, preformed, standing seam, coated, prefinished, metal panels.
DSS/UC3-16	l = various w = 16" min. 16 oz copper (panels are cut to appropriate length)	PA 110	16 oz. copper, standing seam
DSS/UC3-12	l = various w = 12" min. 16 oz. Copper (panels are cut to appropriate length)	PA 110	16 oz. copper, standing seam
Trim Pieces	l = varies w = varies min. 24 ga.	PA 110	Standard flashing and trim pieces. Manufactured for each panel width.
Panel Clips	.024" thick x 1½"to 2" wide x 1½"high x 1½"to 2" long	PA 114 Appendix E	Corrosion resistant, formed, painted or unpainted steel clips for metal panel installation.



<u>Product</u>	<u>Dimensions</u>	<u>Test Specifications</u>	<u>Product Description</u>
Panel Clips (continuous)	.019" thick x 1½" wide x 1½" high in 10' long sections	PA 114 Appendix E	Stainless steel for copper panel installation

TRADE NAMES OF PRODUCTS MANUFACTURED BY OTHERS:

<u>Product</u>	<u>Dimensions</u>	<u>Product Description</u>	<u>Manufacturer</u>
#30 Felt	N/A	Saturated organic felt to be used as a nailed underlayment.	generic
#43 Coated Base Sheet	N/A	Saturated and coated organic base sheet for single or double ply underlayment.	generic
Fire Barrier Board ("Dens Deck")	min. ¼" thick	Fire barrier for Class 'A' fire rating.	Georgia-Pacific with current PCA
Fire Barrier ("Roctex")	min. 450 grams/m ²	Fire barrier for Class 'A' fire rating.	Partek Insulations, Inc.
Fasteners (Panel Clips)	min. #8 coarse thread wood screw.	Corrosion resistant, pancake head, self-drilling, self-threading screws	generic
Sealant	N/A	Sealant for use at foam closure strip.	generic

EVIDENCE SUBMITTED:

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Test Name/Report</u>	<u>Date</u>
Center For Applied Engineering	MTS 257364	PA 100	Sep. 1995
Lilly Industries		ASTM G 23	Jan. 1994
Miami Testing Laboratory	MTL 16877	ASTM E 1592	Dec. 1996
Miami Testing Laboratory	MTL 16879	ASTM E 1592	Dec. 1996
Hurricane Test Laboratory, Inc.	0182-0102-00	UL 580	February 2000



APPROVED ASSEMBLIES

SYSTEM A-1S: DSS/UC3-12 through DSS DSS/UC3-20 Steel Panel

Deck Type: Wood, Non-insulated

Deck Description: New Construction or Re-roof
1⁹/₃₂" or greater plywood or wood plank.

Slope Range: 2":12" or greater

Maximum Uplift Pressure: The maximum allowable design pressure for the 12" through 20" wide panel shall be **-62.5** psf. (See System Limitation #1)

Deck Attachment: In accordance with applicable Building Code, but in no case shall it be less than 8d annular ring shank nails spaced 6" o.c. In reroofing, where the deck is less than 19/32" thick (Minimum 15/32") The above attachment method must be in addition to existing attachment.

Underlayment: Minimum underlayment shall be an ASTM D 226 Type II installed with a minimum 4" side-lap and 6" end-laps. Underlayment shall be fastened with corrosion resistant tin-caps and 12 gauge 1 1/4" annular ring-shank nails, spaced 6" o.c. at all laps and two staggered rows 12" o.c. in the field of the roll.

Valleys: Valley construction shall be in compliance with Roofing Application Standard RAS 133 and with CSI Delcoa's current published installation instructions.

Fire Barrier Board: For class A or B fire rating, install minimum 1/4" thick Georgia Pacific "Dens Deck" (with current NOA) or minimum 4mm thick of Tritex, RockRoof (with current NOA) or 5/8" water resistant type X gypsum sheathing with treated core and facer.

Metal Panels and Accessories:

Install the "DSS/UC3 Panels" and accessories in compliance with CSI Delcoa's current, published installation instructions and details. Flashing, penetrations, valley construction and other details shall be constructed in compliance with the minimum requirements provided in Roofing Application Standards RAS 133.

1. At the eave, rake, and ridge, clips shall be located not more than 3" away from the panel end.
2. Panels shall be installed with approved clips (2" long x 2" wide x 1.5" tall), attached to substrate with one corrosion resistant #10 screw of sufficient length to penetrate through the sheathing a minimum of 3/16", at a spacing not exceed 16" o.c. parallel to roof slope.
3. Standing seams shall be mechanically seamed to a full 90° seam, (single lock).



SYSTEM A-2S:	DSS/UC3-24 Steel Panel
Deck Type:	Wood, Non-insulated
Deck Description:	New Construction or Re-roof 1 ⁹ / ₃₂ " or greater plywood or wood plank.
Slope Range:	2":12" or greater
Maximum Uplift Pressure:	The maximum allowable design pressure for the 24" wide panel shall be -27.75 psf. (See System Limitation #1)
Deck Attachment:	In accordance applicable Building Code, but in no case shall it be less than 8d annular ring shank nails spaced 6" o.c. In reroofing, where the deck is less than 1 ⁹ / ₃₂ " thick (Minimum 1 ⁵ / ₃₂ "") The above attachment method must be in addition to existing attachment.
Underlayment:	Minimum underlayment shall be an ASTM D 226 Type II installed with a minimum 4" side-lap and 6" end-laps. Underlayment shall be fastened with corrosion resistant tin-caps and 12 gauge 1 1/4" annular ring-shank nails, spaced 6" o.c. at all laps and two staggered rows 12" o.c. in the field of the roll.
Valleys:	Valley construction shall be in compliance with Roofing Application Standard RAS 133 and with CSI Delcoa's current published installation instructions.
Fire Barrier Board:	For class A or B fire rating, install minimum 1/4" thick Georgia Pacific "Dens Deck" (with current NOA) or minimum 4mm thick of Tritex, RockRoof (with current NOA) or 5/8" water resistant type X gypsum sheathing with treated core and facer.
Metal Panels and Accessories:	Install the "DSS/UC3 Panels" and accessories in compliance with CSI Delcoa's current, published installation instructions and details. Flashing, penetrations, valley construction and other details shall be constructed in compliance with the minimum requirements provided in Roofing Application Standard RAS 133. <ol style="list-style-type: none"> 1. At the eave, rake, and ridge, clips shall be located not more than 3" away from the panel end. 2. Panels shall be installed with approved clips (1.5" long x 1.5" wide x 1.5" tall), attached to substrate with one corrosion resistant #8-14 screw of sufficient length to penetrate through the sheathing a minimum of 3/16", at a spacing not exceed 16" o.c. parallel to roof slope. 3. Standing seams shall be mechanically seamed to a full 90° seam, (single lock).



SYSTEM A-1C:	DSS/UC3-16, Copper 16 oz. Panel
Deck Type:	Wood, Non-insulated
Deck Description:	New Construction or Re-roof 1 ⁹ / ₃₂ " or greater plywood or wood plank.
Slope Range:	2":12" or greater
Maximum Uplift Pressure:	The maximum allowable design pressure for the 16" wide panel shall be -40 psf. (See System Limitation #2)
Deck Attachment:	In accordance with applicable Building Code, but in no case shall it be less than 8d annular ring shank nails spaced 6" o.c. In reroofing, where the deck is less than 1 ⁹ / ₃₂ " thick (Minimum 1 ⁵ / ₃₂ ") The above attachment method must be in addition to existing attachment.
Underlayment:	Minimum underlayment shall be an ASTM D 226 Type II installed with a minimum 4" side-lap and 6" end-laps. Underlayment shall be fastened with corrosion resistant tin-caps and 12 gauge 1 1/4" annular ring-shank nails, spaced 6" o.c. at all laps and two staggered rows 12" o.c. in the field of the roll.
Valleys:	Valley construction shall be in compliance with Roofing Application Standard RAS 133 and with CSI Delcoa's current published installation instructions.
Fire Barrier Board:	For class A or B fire rating, install minimum 1/4" thick Georgia Pacific "Dens Deck" (with current NOA) or minimum 4mm thick of Tritex, RockRoof (with current NOA) or 5/8" water resistant type X gypsum sheathing with treated core and facer.
Metal Panels and Accessories:	Install the "DSS/UC3 Copper Panels" and accessories in compliance with CSI Delcoa's current, published installation instructions and details. Flashing, penetrations, valley construction and other details shall be constructed in compliance with the minimum requirements provided in Roofing Application Standard RAS 133. <ol style="list-style-type: none"> 1. At the eave, rake, and ridge, fasteners shall be located not more than 3" away from the panel end. 2. Panels shall be installed with approved continuous clips (1 1/2" x 1 1/2" x 10' long sections), attached to substrate with one stainless steel #8-14 screw of sufficient length to penetrate through the sheathing a minimum of 3/16", at a spacing not exceed 16" o.c. parallel to roof slope. 3. Standing seams shall be mechanically seamed to a full 180° seam, (double lock).



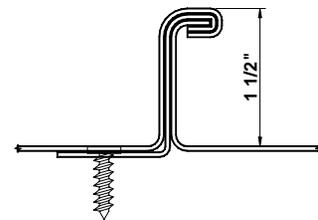
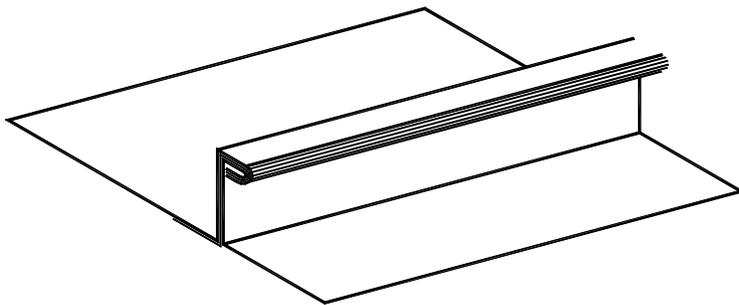
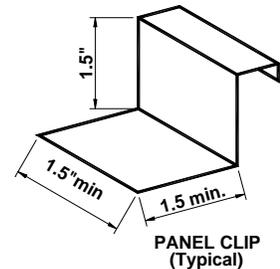
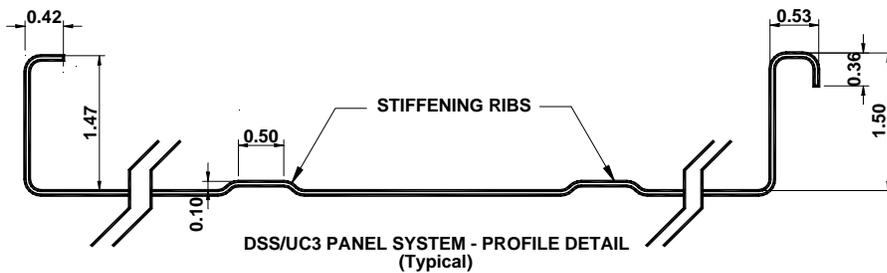
SYSTEM A-2C:	DSS/UC3-12, Copper 16 oz. Panel
Deck Type:	Wood, Non-insulated
Deck Description:	New Construction or Re-roof 1 ⁹ / ₃₂ " or greater plywood or wood plank.
Slope Range:	2":12" or greater
Maximum Uplift Pressure:	The maximum allowable design pressure for the 12" wide panel shall be -40 psf. (See System Limitation #2)
Deck Attachment:	In accordance with applicable Building Code, but in no case shall it be less than 8d annular ring shank nails spaced 6" o.c. In reroofing, where the deck is less than 19/32" thick (Minimum 15/32") The above attachment method must be in addition to existing attachment.
Underlayment:	Minimum underlayment shall be an ASTM D 226 Type II installed with a minimum 4" side-lap and 6" end-laps. Underlayment shall be fastened with corrosion resistant tin-caps and 12 gauge 1 1/4" annular ring-shank nails, spaced 6" o.c. at all laps and two staggered rows 12" o.c. in the field of the roll.
Valleys:	Valley construction shall be in compliance with Roofing Application Standard RAS 133 and with CSI Delcoa's current published installation instructions.
Fire Barrier Board:	For class A or B fire rating, install minimum 1/4" thick Georgia Pacific "Dens Deck" (with current NOA) or minimum 4mm thick of Tritex, RockRoof (with current NOA) or 5/8" water resistant type X gypsum sheathing with treated core and facer.
Metal Panels and Accessories:	Install the "DSS/UC3 Copper Panels" and accessories in compliance with CSI Delcoa's current, published installation instructions and details. Flashing, penetrations, valley construction and other details shall be constructed in compliance with the minimum requirements provided in Roofing Application Standard RAS 133. <ol style="list-style-type: none"> 1. At the eave, rake, and ridge, fasteners shall be located not more than 3" away from the panel end. 2. Panels shall be installed with approved continuous clips (1 1/2" x 1 1/2" x 10' long sections), attached to substrate with one stainless steel #8-14 screw of sufficient length to penetrate through the sheathing a minimum of 3/16", at a spacing not exceed 16" o.c. parallel to roof slope. 3. Standing seams shall be mechanically seamed to a full 180° seam, (double lock).



SYSTEM LIMITATIONS

1. Increased design pressures for at perimeter and corner areas, in compliance with applicable building code may be met through rational analysis by increasing the number of attachment points in this areas. The maximum fastener spacing noted in the "Systems Description" section of this approval shall not be exceeded. All rational analysis computation shall be prepared, signed and sealed by a Florida Registered Professional Engineer, Registered Architect, or Registered Roof Consultant. **(When this limitation is specifically referred within this NOA, System Limitation #2 will not be applicable.)**
2. The maximum designed pressure limitation listed shall be applicable to all roof pressure zones (i.e. field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e. perimeters, extended corners and corners). The maximum fastener spacing noted in the "Systems Description" section of this approval shall not be exceeded. **(When this limitation is specifically referred within this NOA, System Limitation #1 will not be applicable.)**
3. Panel shall be roll formed in continuous lengths from eave to ridge. Maximum lengths shall be described in the Roofing Application Protocol RAS 133.
4. All panels shall be permanently labeled with the manufacturer's name and/or logo, and the following statement: "Miami-Dade County Product Control Approved."

PROFILE DRAWINGS



DSS/UC3 PANEL SYSTEM
(Typical)

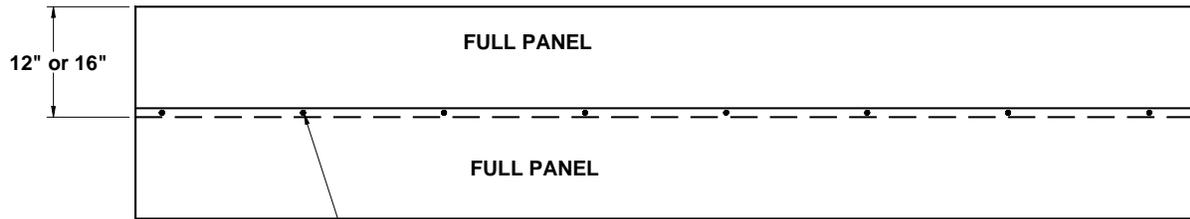
DSS/UC3 PANEL SYSTEM

DSS/UC3 STEEL PANEL SYSTEM

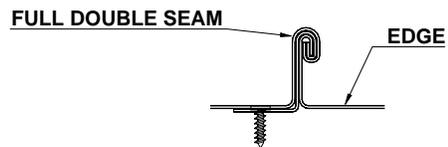


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DSS/UC3 COPPER PANEL SYSTEM



CONTINUOUS CLIP (10' LENGTHS)
WITH #10 SCREW @ 16" O.C.



END OF THIS ACCEPTANCE

