



MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING

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

PRODUCT CONTROL NOTICE OF ACCEPTANCE

Orange State Industries
1811 N.W. 16 Street
Pompano Beach FL 33069

CONTRACTOR LICENSING SECTION
(305) 375-2527 FAX (305) 375-2558

CONTRACTOR ENFORCEMENT SECTION
(305) 375-2966 FAX (305) 375-2908

PRODUCT CONTROL DIVISION
(305) 375-2902 FAX (305) 372-6339

Your application for Product Approval of:

20 ga. Galvalume 3" deep x 16" Wide Panel for Canopy

under Chapter 8 of the Code of Miami-Dade County governing the use of Alternate Materials and Types of Construction, and completely described herein, has been recommended for acceptance by the Miami-Dade County Building Code Compliance Office (BCCO) under the conditions specified herein.

This approval shall not be valid after the expiration date stated below. BCCO reserves the right to seure this product or material at anytime from a jobsite or manufacturer's plant for quality control testing.

If this product or material fails to perform in the approved manner, BCCO may revoke, modify, or suspend the use of such product or material immediately. BCCO reserves the right to revoke this approval, if it is determined BCCO that this product or material fails to meet the requirements of the South Florida Building Code.

The expense of such testing will be incurred by the manufacturer.

Acceptance No.: 99-1207.03

Expires: 02/06/2003

Raul Rodriguez
Chief Product Control Division

THIS IS THE COVERSHEET, SEE ADDITIONAL PAGES FOR SPECIFIC AND GENERAL CONDITIONS

BUILDING CODE & PRODUCT REVIEW COMMITTEE

This application for Product Approval has been reviewed by the BCCO and approved by the Building Code and Product Review Committee to be used in Dade County, Florida under the conditions set forth above.

Francisco J. Quintana, R.A.
Director

Miami-Dade County
Building Code Compliance Office

Approved: 02/18/2000

1 of 3



Orange State Industries

ACCEPTANCE No. : 99-1207.03

APPROVED : FEB 18 2000

EXPIRES : 02/06/2003

NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS

1. SCOPE

This renews the Notice of Acceptance No. 96-1112.03, which was issued on February 6, 1997. It approves a 20 gauge steel deck 3" x 16" panel for canopy, as described in Section 2 of this Notice of Acceptance, designed to comply with the South Florida Building Code, 1994 Edition for Miami-Dade County, for the locations where the load requirements, as determined by SFBC Chapter 23, do not exceed the design load allowables indicated in the approved drawing.

2. PRODUCT DESCRIPTION

This 20 gauge steel deck 3" x 16" panel for canopy and its components shall be constructed in strict compliance with the following documents: Drawing No. D1, D2, D3, and D4, titled " 20 ga. Galvalume 16" x 3" Deck Pans", prepared by WM. M. Meyers, P.E., dated October 26, 1996, last revision #2 dated January 14, 1997, total of 4 sheets, bearing the Miami-Dade County Product Control Approval and Renewal stamps with the Notice of Acceptance numbers and approval dates by the Miami-Dade County Product Control Division. These documents shall hereinafter be referred to as the approved drawings.

3. LIMITATIONS

All permanent set components must be protected against corrosion, contamination and damage at all times.

4. INSTALLATION

This 20 gauge steel deck 3" x 16" panel for canopy and its components shall be installed in strict compliance with the approved drawings.

5. LABELING

Each panel shall bear a permanent label with the manufacturer's name or logo, city, state and the following statement: "Miami-Dade County Product Control Approved".

6. BUILDING PERMIT REQUIREMENTS

6.1 Application for building permit shall be accompanied by copies of the following:

6.1.1 This Notice of Acceptance.

6.1.2 Duplicate copies of the approved drawings, as identified in Section 2 of this Notice of Acceptance, clearly marked to show the components selected for the proposed installation.

6.1.3 Any other documents required by the Building Official or the South Florida Building Code (SFBC) in order to properly evaluate the installation of this system.



Helmy A. Makar, P.E.- Product Control Examiner
Product Control Division

Orange State Industries

ACCEPTANCE No. : 99-1207.03

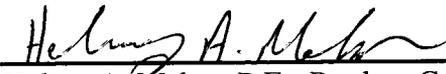
APPROVED : FEB 18 2000

EXPIRES : 02/06/2003

NOTICE OF ACCEPTANCE: STANDARD CONDITIONS

1. Renewal of this Acceptance (approval) shall be considered after a renewal application has been filed and the original submitted documents, including test-supporting data, engineering documents, are no older than eight (8) years.
2. Any and all approved products shall be permanently labeled with the manufacturer's name, city, state, and the following statement: "Miami-Dade County Product Control Approved", or as specifically stated in the specific conditions of this Acceptance.
3. Renewals of Acceptance will not be considered if:
 - a. There has been a change in the South Florida Building Code affecting the evaluation of this product and the product is not in compliance with the code changes.
 - b. The product is no longer the same product (identical) as the one originally approved.
 - c. If the Acceptance holder has not complied with all the requirements of this acceptance, including the correct installation of the product.
 - d. The engineer, who originally prepared, signed and sealed the required documentation initially submitted, is no longer practicing the engineering profession.
4. Any revision or change in the materials, use, and/or manufacture of the product or process shall automatically be cause for termination of this Acceptance, unless prior written approval has been requested (through the filing of a revision application with appropriate fee) and granted by this office.
5. Any of the following shall also be grounds for removal of this Acceptance:
 - a. Unsatisfactory performance of this product or process.
 - b. Misuse of this Acceptance as an endorsement of any product, for sales, advertising or any other purposes.
6. The Notice of Acceptance 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 Notice of Acceptance is displayed, then it shall be done in its entirety.
7. A copy of this Acceptance as well as approved drawings and other documents, where it applies, shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at all time. The engineer needs not reseal the copies.
8. Failure to comply with any section of this Acceptance shall be cause for termination and removal of Acceptance.
9. This Notice of Acceptance consists of pages 1, 2 and this last page 3.

END OF THIS ACCEPTANCE



Helmy A. Makar, P.E.- Product Control Examiner
Product Control Division

PRODUCT RENEWED

ACCEPTANCE No. 99-1207-03

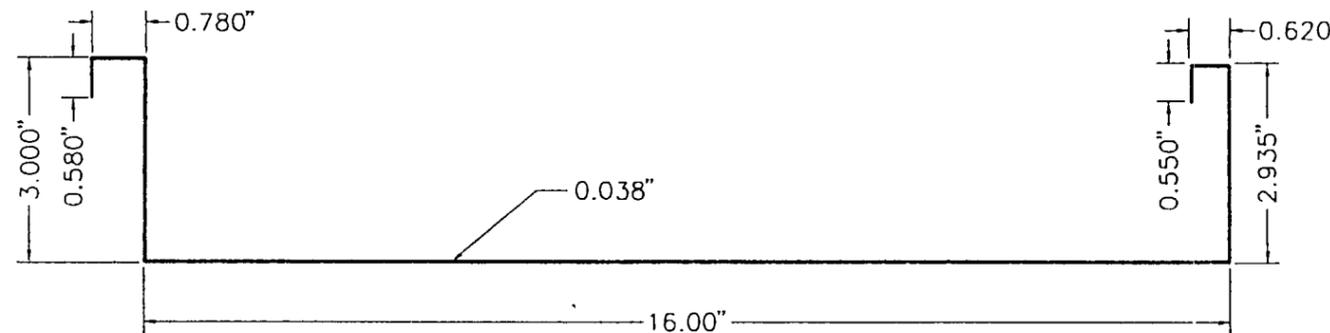
EXPIRATION DATE February 06, 2003

By Helmut A. Meyer
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE

PRODUCT CONTROL APPROVAL IS LIMITED TO THE ROOF METAL DECK. THE STRUCTURAL ADEQUACY OF ALL OTHER STRUCTURAL ITEMS: BEAMS, COLUMNS, FASCIA SUPPORTS, CONNECTIONS, FOUNDATIONS, ETC., SHALL BE VERIFIED BY THE STRUCTURAL PLANS EXAMINER OF THE CORRESPONDING BUILDING DEPARTMENT. THE METAL DECK SHALL NOT BE DESIGNED TO ACT AS A DIAPHRAGM.

PANEL SPECIFICATIONS

- STEEL DECK SHALL BE GALVALUME 20ga. ASTM A792-94 GR. 50B
 - PANEL WITH CLIPPED CONNECTIONS (COMPLY WITH DETAILS OF DRAWING NUMBER D2)
 - MAXIMUM ALLOWABLE BENDING MOMENT OF PANEL AT SUPPORT = 800.0 ft.-lbs.
 - MAXIMUM ALLOWABLE BENDING MOMENT OF PANEL BETWEEN SUPPORTS = 460.0 ft.-lbs.
 - EI VALUE OF PANEL = 10.7×10^{-6} lbs.-in²
 - MAXIMUM ALLOWABLE DEFLECTION OF PANEL = L/180
 - MAXIMUM SUPPORT REACTION = 709.0 lbs. (FOR TWO CLIPS PER SUPPORT AS SHOWN ON DRAWING NUMBER D2).
 - PANEL WITH BOLTED CONNECTIONS (COMPLY WITH DETAILS OF DRAWING NUMBER D3)
 - MAXIMUM ALLOWABLE BENDING MOMENT OF PANEL AT SUPPORT = 933.0 ft.-lbs.
 - MAXIMUM ALLOWABLE BENDING MOMENT OF PANEL BETWEEN SUPPORTS = 537.0 ft.-lbs.
 - EI VALUE OF PANEL = 10.7×10^{-6} lbs.-in²
 - MAXIMUM ALLOWABLE DEFLECTION OF PANEL = L/180
 - MAXIMUM SUPPORT REACTION = 897.0 lbs. (FOR TWO 1/4"-20x 1" PHILIP PAN STAINLESS STEEL MACHINE SCREWS WITH SN, SW PER SUPPORT AS SHOWN ON DRAWING NUMBER D3).
- THE ABOVE ALLOWABLES OF THE CLIPPED AND BOLTED CONNECTIONS PANELS ARE BASED ON A 16" WIDE PANEL LOADING. TO GET THE WIND LOAD PRESSURE PER SQUARE FOOT, MULTIPLY PANEL LOAD TIMES 12/16.
- THIS PANEL SHOULD BE USED ONLY IN THE CONSTRUCTION OF OPEN CANOPIES.
- EACH ACTUAL CANOPY PROJECT SHALL BE CONSTRUCTED USING THE SAME PANEL CROSS SECTION AND SUPPORT DETAILS AT STRINGERS AND INTERLOCKING SEAMS AS SHOWN ON THIS TEST. THE DESIGN OF THE PANEL SPAN SHALL BE IN COMPLIANCE WITH ALL OF THE ABOVE ALLOWABLES.



20 ga. GALVALUME DECK

SCALE: 3/8" = 1"

DESIGN SPECIFICATIONS

- CANOPIES SHALL BE DESIGNED IN COMPLIANCE WITH THE CURRENT S.F.B.C. AND ACCORDING TO WIND PROVISIONS OF ASCE 7-88.
- WIND LOAD= 110 mph (EXP.C)
- CLIPPED CONNECTION---> TEST PRESSURE = +150.0/-160.0 psf
 DESIGN PRESSURE = COMPLY WITH THE PANEL SPECIFICATIONS SHOWN ABOVE.
- BOLTED CONNECTION---> TEST PRESSURE = +190.0/-175.0 psf
 DESIGN PRESSURE = COMPLY WITH THE PANEL SPECIFICATIONS SHOWN ABOVE.
- LIVE LOAD TEST PRESSURE = 30 psf

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
 DATE FEBRUARY 6 1997
 BY Helmut A. Meyer
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE
 ACCEPTANCE NO. 96-1112-03

HETI
 8532 NW 64 ST.
 MIAMI, FL 33166
 (305) 597-5590

HETI
 8532 NW 64 ST.
 MIAMI, FL 33166
 (305) 597-5590

ALL DEAS, DESIGN, AMENDMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF ORANGE STATE INDUSTRIES AND HEREIN CONCEALED, ENGINEER AND DEVELOPED FOR USE ON, AND IN CONNECTION WITH, THE SPECIFIED PROJECT. NONE OF SUCH DEAS, DESIGN, AMENDMENTS OR PLANS SHALL BE USED BY, OR DISCLOSED TO ANY PERSON, FIRM OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF ORANGE STATE INDUSTRIES.

DATE	DR	CHK	REVISION	NO.
1/14/97	JN	YS	REVISED SPECIFICATIONS	2
1/8/97	JN	YS	REVISED SPECIFICATIONS	1



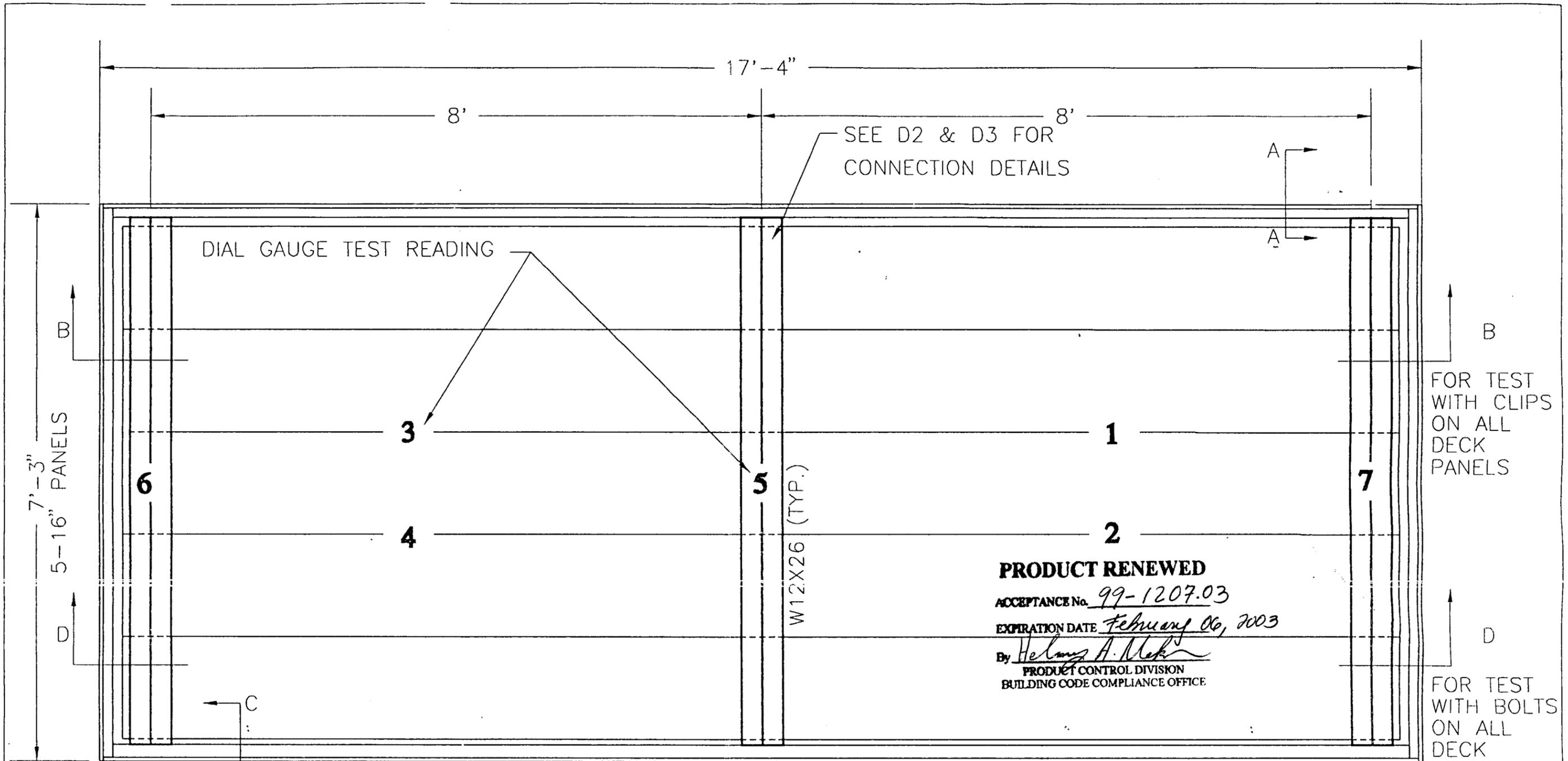
ORANGE STATE INDUSTRIES
 1811 N.W. 16th Street
 Pompano Beach, FL 33069
 (954) 971-9598

20 ga. GALVALUME
 16" X 3" DECK PANS

WM. M. MEYERS, P.E.
 Structural Engineer
 Registration #18755
 9301 N.E. 6th Ave. C-300
 Miami Shores, FL. 33138

DRAWN BY: <u>JON TR</u>
CHECKED BY: <u>JON TR</u>
DATE: <u>10/26/96</u>
TITLE: <u>PANEL SPECS.</u>

D4



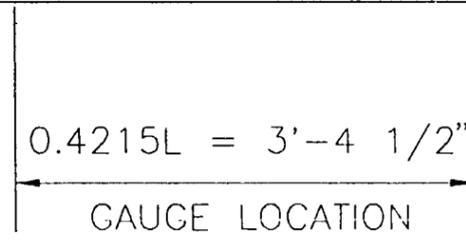
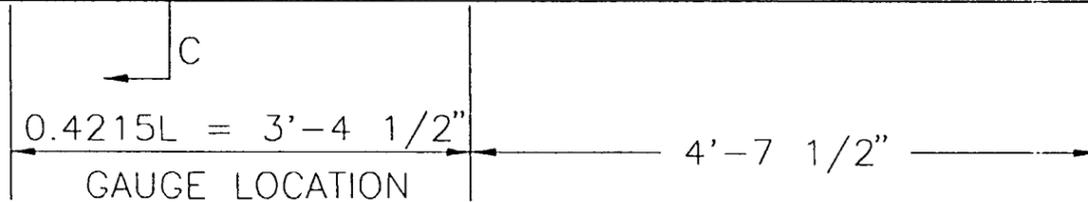
PRODUCT RENEWED

ACCEPTANCE No. 99-1207.03

EXPIRATION DATE February 06, 2003

By Helmut A. Meke

PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE



ROOF PLAN

SCALE: 3/4" = 1'-0"

HETI
8532 NW 64 ST.
MIAMI, FL 33166
(305) 597-5590

APPROVED AS COMPLYING WITH THE
SOUTH FLORIDA BUILDING CODE
DATE FEBRUARY 6, 1997
BY Helmut A. Meke
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 96-1112.03

ALL DESIGN, SPECIFICATIONS AND PLANS PREPARED OR SUPERVISED BY THIS OFFICE ARE COVERED BY AND THE PROPERTY OF ORANGE STATE INDUSTRIES AND HERE GRANTED, EVALUATED AND DEVELOPED FOR USE ON, AND IN CONNECTION WITH THE SPECIFIC PROJECT. NONE OF SUCH DESIGN, SPECIFICATIONS OR PLANS SHALL BE USED BY, OR DISCLOSED TO ANY PERSON, FIRM OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF ORANGE STATE INDUSTRIES.

DATE	BY	CHK	REVISION	NO.
1/14/97	JM	JS	REVISED SPECIFICATIONS	2
1/8/97	JM	JS	REVISED SPECIFICATIONS	1



ORANGE STATE INDUSTRIES

1811 N.W. 18th Street
Pompano Beach, FL 33089
(954) 971-9598

20 ga. GALVALUME
16" X 3" DECK PANS

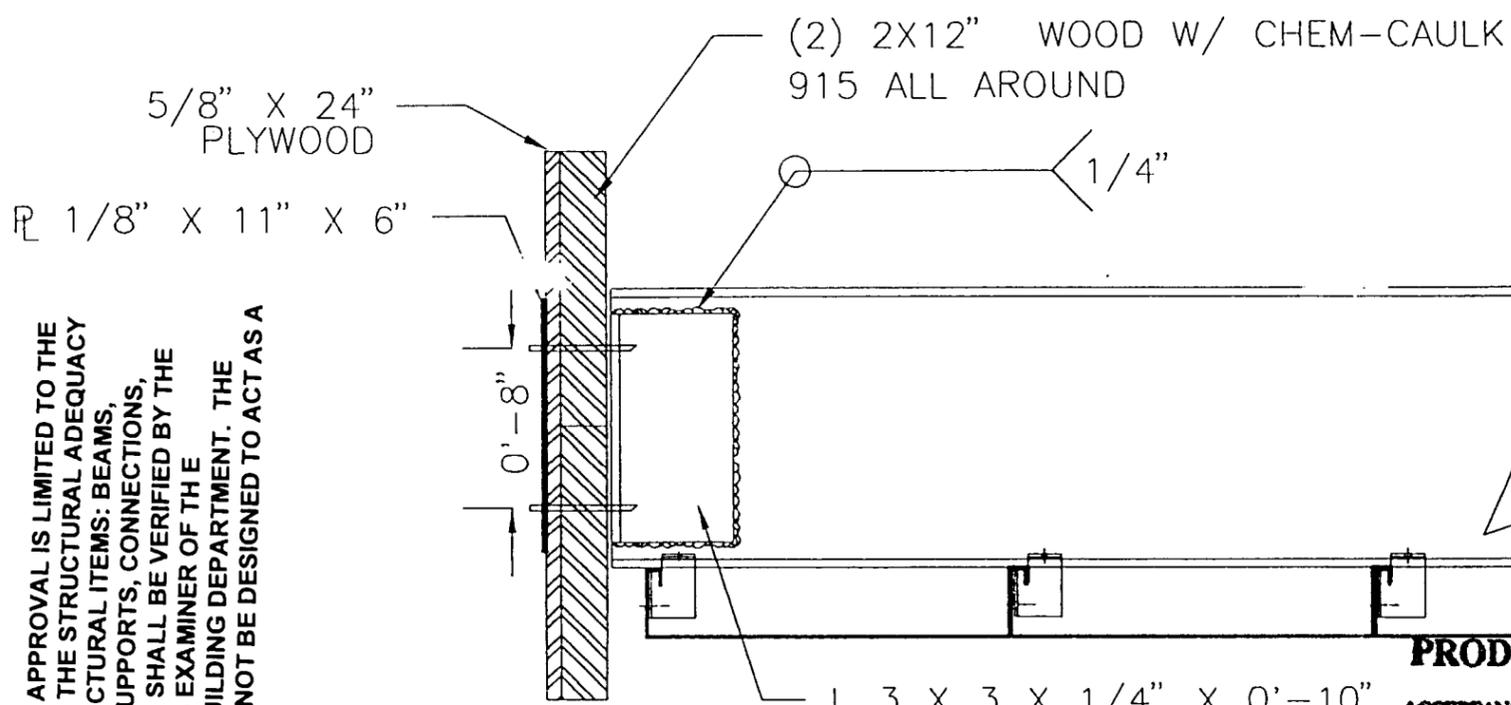
WM. M. MEYERS, P.E.
Structural Engineer
Registration #18755
9301 N.E. 6th Ave. C-300
Miami Shores, FL. 33138

W.M. Meyers
1/16/97

DRAWN BY: JDN	CHECKED BY: JS
DATE: 10/26/96	
TITLE: TEST FRAME	

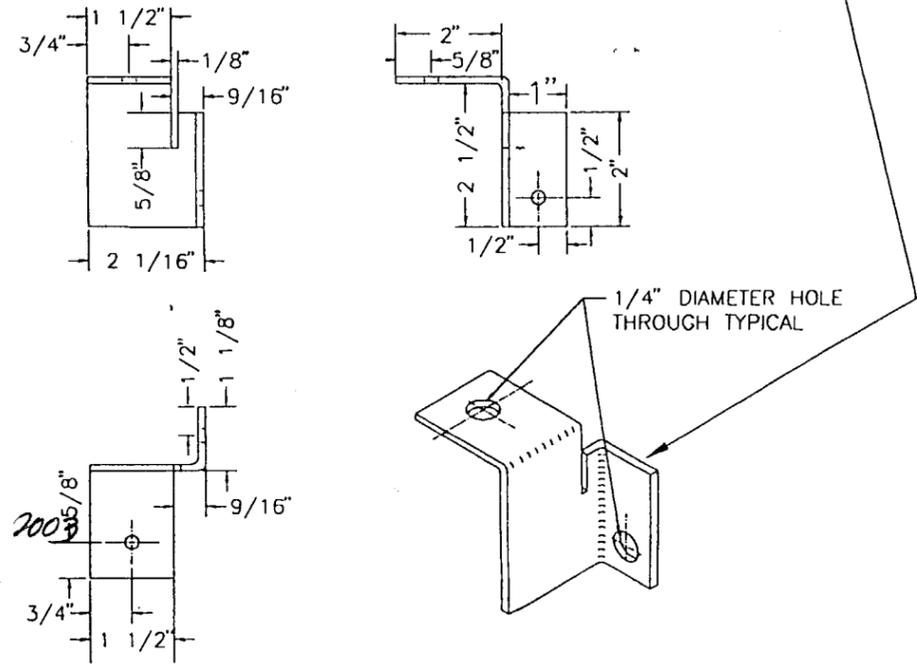
D1

PRODUCT CONTROL APPROVAL IS LIMITED TO THE ROOF METAL DECK. THE STRUCTURAL ADEQUACY OF ALL OTHER STRUCTURAL ITEMS: BEAMS, COLUMNS, FASCIA SUPPORTS, CONNECTIONS, FOUNDATIONS, ETC., SHALL BE VERIFIED BY THE STRUCTURAL PLANS EXAMINER OF THE CORRESPONDING BUILDING DEPARTMENT. THE METAL DECK SHALL NOT BE DESIGNED TO ACT AS A DIAPHRAM.



L 3 X 3 X 1/4" X 0'-10" LONG EACH SIDE
SECTION A
SCALE: 1/8" = 1"

18 ga. STEEL "DECK PAN RIB-CLIP" EACH SIDE W/(1) 12-24 x 1 1/4" HWH TEK/5 BOLTED TO STRINGER AND (1) 12-14 X 3/4" HWH TRAXX/3 FASTENER THRU DECK PAN RIBS.

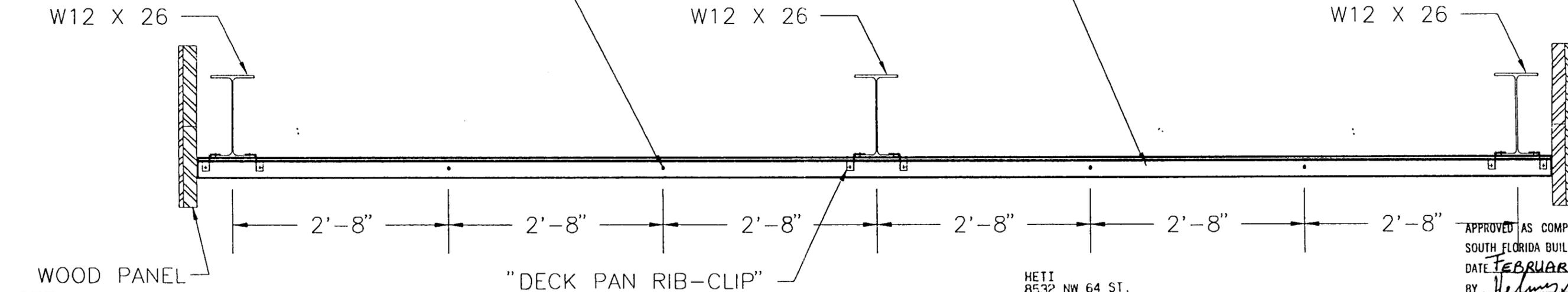


PRODUCT RENEWED
ACCEPTANCE No. 99-1207.03
EXPIRATION DATE February 06, 2008
By Helmy A. Matar
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE

#14 SHEET METAL SCREW @ 2'-8" O.C. TYP.

(5) 20ga. GALVALUME GRADE 50B

DECK PAN RIB-CLIP
(18 RIGHT 18 LEFT REQ'D)



SECTION B
SCALE: 3/4" = 1"

NOTE:
ASSEMBLE TWO TEST FRAMES WITH DECK PAN RIB-CLIP CONNECTIONS ON ALL DECK PANELS.

HETI
8532 NW 64 ST.
MIAMI, FL 33166
(305) 597-5590

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE FEBRUARY 6, 1997
BY Helmy A. Matar
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 96-1112.03

ALL SEAL, DESIGN, AMENDMENTS AND PLANS RECALCULATED OR REPRESENTED BY THE ENGINEER ARE OWNED BY AND THE PROPERTY OF ORANGE STATE INDUSTRIES AND SHALL BE KEPT IN CONFIDENCE AND NOT TO BE REPRODUCED OR USED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF ORANGE STATE INDUSTRIES.

DATE	BY	CHK	REVISION	NO.
1/14/97	JM	CS	REVISED SPECIFICATIONS	2
1/8/97	JM	TJ	REVISED SPECIFICATIONS	1



ORANGE STATE INDUSTRIES
1811 N.W. 16th Street
Pompano Beach, FL 33069
(954) 971-9598

20 ga. GALVALUME
16" X 3" DECK PANS
FOR CLIP CONNECTIONS

WM. M. MEYERS, P.E.
Structural Engineer
Registration #18755
9301 N.E. 6th Ave. C-300
Miami Shores, FL. 33138

1/17/97

DRAWN BY: JDN
CHECKED BY: [Signature]
DATE: 10/26/96
TITLE: CLIP DETAILS

D2

SHEET NO. 1 OF 1

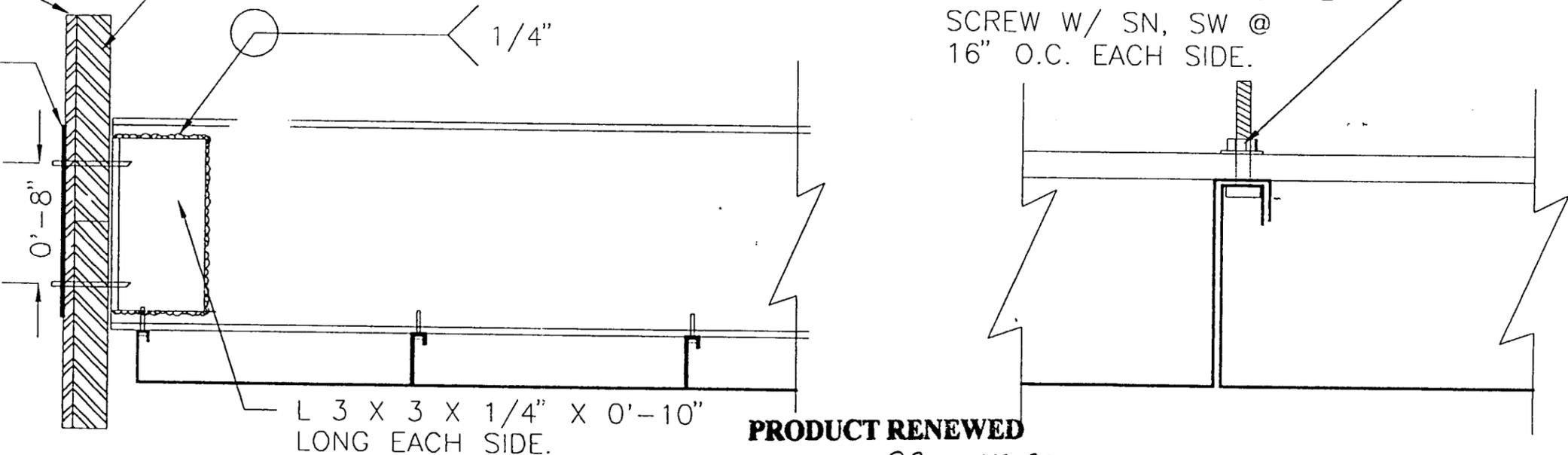
5/8" X 24" PLYWOOD
 (2) 2X12" WOOD W/ CHEM-CAULK 915 ALL AROUND

1/8" X 11" X 6"

1/4"

1/4"Ø-20 X 1" PHILLIP PAN STAINLESS STEEL MACHINE SCREW W/ SN, SW @ 16" O.C. EACH SIDE.

PRODUCT CONTROL APPROVAL IS LIMITED TO THE ROOF METAL DECK. THE STRUCTURAL ADEQUACY OF ALL OTHER STRUCTURAL ITEMS: BEAMS, COLUMNS, FASCIA SUPPORTS, CONNECTIONS, FOUNDATIONS, ETC., SHALL BE VERIFIED BY THE STRUCTURAL PLANS EXAMINER OF THE CORRESPONDING BUILDING DEPARTMENT. THE METAL DECK SHALL NOT BE DESIGNED TO ACT AS A DIAPHRAM.



L 3 X 3 X 1/4" X 0'-10" LONG EACH SIDE.

PRODUCT RENEWED

ACCEPTANCE No. 99-1207.03

EXPIRATION DATE February 06, 2003

By *Helmut A. Mader*
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE

CONNECTION DETAIL

SCALE: 1/2" = 1"

SECTION C

SCALE: 3/4" = 1"

#14 SHEET METAL SCREW @ 2'-8" O.C. TYP. (5) 20ga. GALVALUME GRADE 50B

W12 X 26

W12 X 26

W12 X 26

WOOD PANEL

1/4"Ø-20 X 1" PHILLIP PAN STAINLESS STEEL MACHINE SCREW W/ SN, SW @ 16" O.C. EACH SIDE.



NOTE: ASSEMBLE TWO TEST FRAMES WITH PHILLIP PAN SCREWS ON ALL DECK PANELS.

SECTION D

SCALE: 3/4" = 1"

HETI
 8532 NW 64 ST.
 MIAMI, FL 33166
 (305) 597-5590

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
 DATE FEBRUARY 6, 1997
 BY *Helmut A. Mader*
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE
 ACCEPTANCE NO. 96-1112.03

ALL SEAL, DESIGN, AMENDMENTS AND PLANS RECALCULATED OR REAPPROVED BY THE ENGINEER AND OWNED BY AND THE PROPERTY OF ORANGE STATE INDUSTRIES AND NOT TO BE COPIED, REPRODUCED OR OTHERWISE USED FOR ANY PURPOSE WITHOUT THE WRITTEN PERMISSION OF ORANGE STATE INDUSTRIES

DATE	BY	CHK	REVISION	NO.
1/14/97	JN	TC	REVISED SPECIFICATIONS	2
1/5/97	JN	TC	REVISED SPECIFICATIONS	1



ORANGE STATE INDUSTRIES
 1811 N.W. 16th Street
 Pompano Beach, FL 33089
 (954) 971-9598

20 ga. GALVALUME
 16" X 3" DECK PANS
 FOR BOLT CONNECTIONS

WM. M. MEYERS, P.E.
 Structural Engineer
 Registration #18755
 9301 N.E. 6th Ave. C-300
 Miami Shores, FL. 33138

Wm Meyers
 1/17/97

DRAWN BY: JDN
 CHECKED BY: *MS*
 DATE: 10/26/96
 TITLE: BOLT DETAIL

D3