



**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

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

**CONTRACTOR ENFORCEMENT DIVISION**  
(305) 375-2966 FAX (305) 375-2908

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

**PRODUCT CONTROL NOTICE OF ACCEPTANCE**

**Truswal Systems Corporation**  
**1101 North Great Southwest Parkway**  
**Arlington ,TX 76011**

Your application for Notice of Acceptance (NOA) of:

**TWMX Metal Truss Connectors Plate**

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 NOA shall not be valid after the expiration date stated below. BCCO reserves the right to secure this product or material at any time 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 by 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.: 00-1120.02**  
**EXPIRES: 12/26/2005**

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 Miami-Dade County, Florida under the conditions set forth above.

Francisco J. Quintana, R.A.  
Director  
Miami-Dade County  
Building Code Compliance Office

**APPROVED: 02/15/2001**

**Truswal Systems Corporation.**

**ACCEPTANCE NO: 00-1120.02**

**APPROVED: FEB 15 2001**

**EXPIRES: 12/26/2005**

**NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS**

**1. SCOPE:**

- 1.1** This renews the Notice of Acceptance No. 97-0708.02 that was issued on 12/26/97. It approves Truswal Truss Plates 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 actual load as determined by the South Florida Building Code Chapter 23, do not exceed the allowable loads indicated in the approved drawings.

**2. PRODUCT DESCRIPTION:**

- 2.1** The **Truswal Model TWMX Truss Plates** shall be constructed in strict compliance with the following document: Drawing No. TWMX, sheet 1 of 1, titled "TWMX Truss Connector Plates", dated 10/11/00, prepared by Truswal Systems Corporation. They bear the Miami-Dade County Product Control approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade Product Control Division. These documents shall hereinafter be referred to as the approved drawings.

**3. LIMITATIONS:**

- 3.1** The design values apply to the hydraulic pressing method.

**4. INSTALLATION:**

- 4.1** Truswal truss plates shall be used in the fabrication of prefabricated trusses of the species listed as they were tested, in strict compliance with this Notice of Acceptance and the applicable section of the South Florida Building Code.
- 4.2** Truswal truss plates shall be installed in strict compliance with the manufacturer's instructions, this Notice of Acceptance and the applicable Sections of the South Florida Building Code.

**5. LABELING:**

- 5.1** Each truss plate 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.
- 6.1.3** Any other document required by the Building Official or the South Florida Building Code (SFBC) in order to properly evaluate the installation of this system.



Candido Font, PE, Sr., Product Control Examiner  
Product Control Division

Truswal Systems Corporation.

ACCEPTANCE NO: 00-1120.02

APPROVED : FEB 1 5 2001

EXPIRES: 12/26/2005

**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 documentation, 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 purpose.
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 need 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.



Candido Font, PE, Sr., Product Control Examiner  
Product Control Division

**END OF THIS ACCEPTANCE**

**Truswal Systems Corporation.**

**ACCEPTANCE NO: 00-1120.02**

**APPROVED: FEB 15 2001**

**EXPIRES: 12/26/2005**

**NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS**

**EVIDENCE SUBMITTED**

**A Drawings**

- 1 Drawing prepared by Truswal Systems Corporation, titled "TWMX Truss Connector Plates", Drawing No. TWMX, sheet 1 of 1, dated 10/11/00, signed and sealed by D. L. Scott, PE.

**B Test**

- 1 Test Report in accordance with ANSI/TPI-1995 prepared by Maxim Technologies, Inc., Project No. 1103600990, dated 06/03/97, consisting of 4 pages and tables, signed and sealed by C. E. Vaughan, PE.

**C Calculations**

- 1 Calculations included in the raw data of the test report.
- 2 Evaluation of properties of Truswal Connector Plate TWMX in accordance with ANSI/TPI 1-1995, prepared by D. L. Scott PE on 12/19/96.

**D Material Certification**

- 1 Material Certification letter issued by Truswal Systems issued on 05/02/97 and signed by P. Deal.

**E Statements**

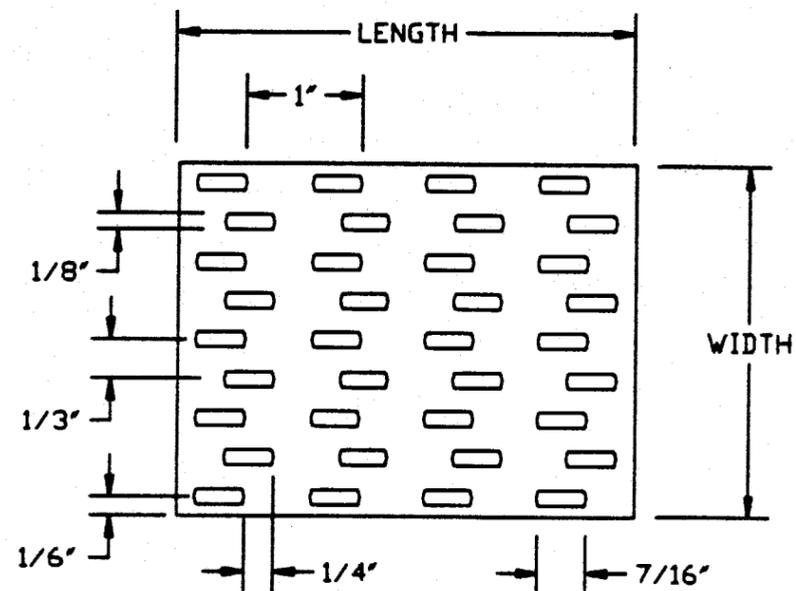
- 1 No Product Change Statement, prepared by Truswal Systems on 11/03/00 and signed by P. Deal, PE.
- 2 No Financial Interest letter issued by Truswal System with no date, signed by D. L. Scott and notarized by R. L. Schueler on 07/01/97.



Candido Font, PE, Sr., Product Control Examiner  
Product Control Division

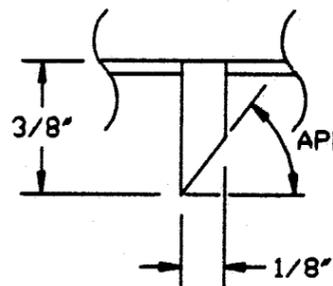
# TRUSWAL TWMX CONNECTOR PLATE

Stamped from Structural Grade galvanized steel (ASTM A653/ A653M)



TOP VIEW

ALL DIMENSIONS ARE APPROXIMATE



ENLARGED TOOTH DETAIL

TIP OF TOOTH IS TWISTED TO AN ANGLE OF APPROXIMATELY 35 DEGREES W/R TO BASE OF TOOTH. ALL TEETH IN A ROW ARE TWISTED IN THE SAME DIRECTION. ADJACENT ROWS OF TEETH ARE TWISTED IN OPPOSITE DIRECTIONS.

## MATERIAL CHARACTERISTICS

MODEL: TWMX  
 THICKNESS: 18 GAGE  
 MECHANICAL PROPERTIES: A653 SQ GRADE 37  
 COATING: G60 OR BETTER PER ASTM A924  
 TOOTH DENSITY: 6 TEETH PER SQ. IN.  
 SIZES: 1" INCREMENTS OF WIDTH  
 ( PLUS 1.5", 2.5", & 3.5" )  
 1" INCREMENTS OF LENGTH

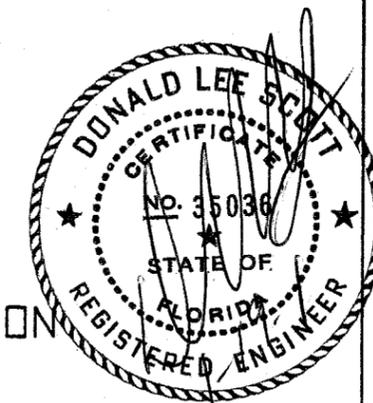
LATERAL RESISTANCE IN POUNDS PER SQUARE INCH OF PLATE CONTACT AREA															
DOUGLAS FIR SG = 0.49				SPRUCE-PINE-FIR OVEN DRY S.G. = 0.50				SOUTHERN PINE SG = 0.55				SPRUCE-PINE-FIR OVEN DRY S.G. = 0.42			
DIRECTION OF LOAD W/R TO WOOD GRAIN AND PLATE LENGTH				DIRECTION OF LOAD W/R TO WOOD GRAIN AND PLATE LENGTH				DIRECTION OF LOAD W/R TO WOOD GRAIN AND PLATE LENGTH				DIRECTION OF LOAD W/R TO WOOD GRAIN AND PLATE LENGTH			
AA	EA	AE	EE	AA	EA	AE	EE	AA	EA	AE	EE	AA	EA	AE	EE
140	147	118	125	147	135	117	128	139	144	137	142	112	124	99	118

### LOAD DIRECTION CODES

FIRST DESIGNATOR - PLATE SLOT LENGTH  
 SECOND DESIGNATOR - WOOD GRAIN DIRECTION  
 'E' INDICATES - LOAD PERPENDICULAR TO  
 'A' INDICATES - LOAD PARALLEL TO

SHEAR LOAD EFFECTIVENESS RATIOS		TENSILE LOAD EFFECTIVENESS RATIOS	
DIRECTION OF LOAD W/R TO PLATE LENGTH	SHEAR RESISTANCE EFFECTIVENESS RATIO	DIRECTION OF LOAD W/R TO PLATE LENGTH	TENSILE RESISTANCE EFFECTIVENESS RATIO
0 DEGREES	63%	PARALLEL	63%
30 DEGREES	67%		
60 DEGREES	79%		
90 DEGREES	61%	PERPENDICULAR	51%
120 DEGREES	51%		
150 DEGREES	45%		

APPROVED AS COMPLYING WITH THE  
 SOUTH FLORIDA BUILDING CODE  
 DATE February 15, 2001  
 BY [Signature]  
 PRODUCT CONTROL DIVISION  
 BUILDING CODE COMPLIANCE OFFICE  
 ACCEPTANCE NO. 00-1120.02



TRUSWAL SYSTEMS CORPORATION  
 1101 N. GREAT SOUTHWEST PKY.  
 ARLINGTON, TX 76011

## TWMX TRUSS CONNECTOR PLATES

DRAWING NO.	SHEET NO.	DRAWING DATE	REVISION DATE
TWMX	1 OF 1	10-11-00	

DONALD L. SCOTT, P.E., V.P. ENGINEERING, REG.# 35036