MIAMI-DADE

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

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:
TW16 Metal Truss Connector 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.: 00-0614.10
EXPIRES: 04/10/2003

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

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

APPROVED: 10/26/2000

Truswal Systems Corporation.

ACCEPTANCE NO: 00-0614.10

APPROVED: OCT 2 6 2000

EXPIRES: 04/10/2003

NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS

1. SCOPE:

1.1 This renews the Notice of Acceptance No. 97-0227.01 which was issued on 04/10/97. 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 TW 16 Truss Plates** shall be constructed in strict compliance with the following document: Drawing No. No number, sheet 1 of 1, titled "TW16 Truss Connector Plates", with no date, 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 Southern Pine 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: 00-0614.10

APPROVED : OCT 2 6 2000

EXPIRES: 04/10/2003

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 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.

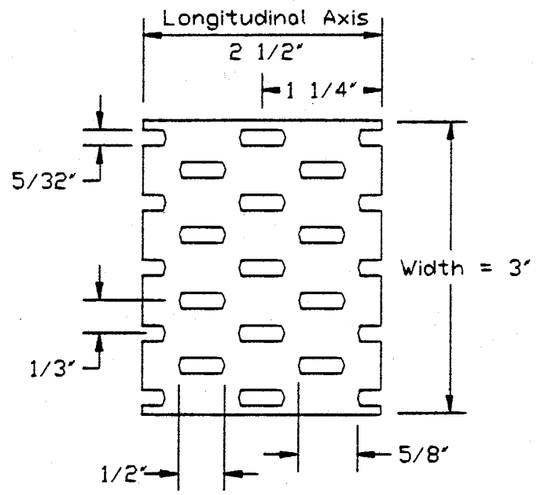
9. This Notice of Acceptance consists of pages 1, 2 and this last page 3.

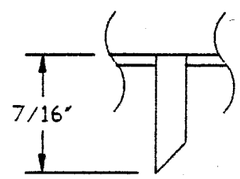
Candido Font, PE, Sr., Product Control Examiner
Product Control Division

END OF THIS ACCEPTANCE

TRUSWAL TW 16 CONNECTOR PLATE

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





Tip of tooth has a spiral rotation of approximately 42 degrees w/r to the base of the tooth (Not shown).

ENLARGED TOOTH DETAIL

MATERIAL CHARACTERISTICS

MODEL:	TW 16
THICKNESS:	16 GAGE
MECHANICAL PROPERTIES:	A653 SQ GRADE 37
COATING:	G60 OR BETTER PER ASTM A924
TOOTH DENSITY:	4.8 TEETH PER SQ. IN.
SIZES:	1" INCREMENTS OF WIDTH 1 1/4" INCREMENTS OF LENGTH

DONALD LEE SCOTT
CERTIFICATE
NO. 35036
STATE OF
FLORIDA
REGISTERED ENGINEER

APPROVED AS COMPLYING WITH THE
SOUTH FLORIDA BUILDING CODE
DATE October 26, 2000
BY
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 00-0614.10

LATERAL RESISTANCE IN POUNDS PER SQUARE INCH OF PLATE CONTACT AREA

DOUGLAS FIR				HEM FIR				SOUTHERN PINE				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
157	161	111	132	108	120	86	99	156	159	140	131	112	110	81	93

TIMBER STRAND				WESTERN WOODS			
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
181	172	132	153	101	114	79	50

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

DIRECTION OF LOAD W/R TO PLATE LENGTH	SHEAR RESISTANCE EFFECTIVENESS RATIO
0 DEGREES	61%
30 DEGREES	61%
60 DEGREES	81%
90 DEGREES	61%
120 DEGREES	53%
150 DEGREES	44%

TENSILE LOAD EFFECTIVENESS RATIOS

DIRECTION OF LOAD W/R TO PLATE LENGTH	TENSILE RESISTANCE EFFECTIVENESS RATIO
PARALLEL	72%
PERPENDICULAR	42%

ROLLER PRESS DESIGN VALUE ADJUSTMENT FACTOR, Q_R

DOUGLAS FIR		SOUTHERN PINE	
ROLLER DIAMETER		ROLLER DIAMETER	
16 INCH	20 INCH	16 INCH	20 INCH
1.02	0.89	0.80	0.89

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

TW16 TRUSS CONNECTOR PLATES

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