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

Phoenix Metals International, Inc.
5449 Maule Way
Mangonia Park ,FL 33407

Your application for Notice of Acceptance (NOA) of:
Phoenix Metal Phoenix Tile, Madrid Tile & Nordic Tile
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.: 01-0417.01
EXPIRES: 09/20/2006

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: 09/20/2001

ROOFING SYSTEM APPROVAL:

Category:	Roofing	Approval Date: **September 20, 2001**
Sub-Category:	Metal, Panels(Non-Structural)	
Material:	Steel	Expiration Date: **September 20, 2006**
Deck Type:	Wood	
Maximum Design Pressure	-52.5 psf	

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

Product	Dimensions	Test Specifications	Product Description
Phoenix Tile, Madrid Tile and Nordic Tile Metal Roof Panel	l = 46 ½"-12' w = 36-½" 0.027" thick	PA 110	Hot dipped galvanized (G-90), primed, stone coated clay-tile-look roofing panels.
Trim pieces	L=varies W=varies	PA 110	Galvanized (G-90) Kynar or PVC coated.
HYLAR 5000TM/KYNAR 500	N/A	PA 110	Corrosion resistant flourocarbon coating.
PLASTISOL	N/A	PA 110	Corrosion resistant Polyvinyl Chloride (PVC) coating.

TRADE NAMES OF PRODUCTS MANUFACTURED OTHERS:

Product	Dimensions	Test Specifications	Product Description	Manufacturer
Pop Rivets	#8	PA 114 Appendix E	Corrosion Resistant, standard steel pop rivets	generic
Sheet Metal Screws	#9	PA 114 Appendix E	Corrosion resistant, standard sheet metal screws, with metal and neoprene sealing washers.	generic
Sealant	N/A	N/A	Sealant for use at foam closure strip.	generic

EVIDENCE SUBMITTED

Test Agency	Test Identifier	Test Name/Report	Date
Underwriter Laboratories, Inc.	98RT4631	UL 580	June 1998
Center For Applied Engineering	MTS 257847A	PA 100	Nov. 1996
Center For Applied Engineering	MTS 25-7774-3	ASTM G 26	Nov. 1996
Ramtech Laboratories, Inc.	9519-92	ASTM G 23	Dec. 1992
Ramtech Laboratories, Inc.	IC-1303-94	Wind Uplift Resistance	Nov. 1994
Valspar Corporation	Salt Spray Testing	ASTM B 117	Dec. 1993

Frank Zuloaga, RRC
Roofing Product Control Examiner

APPROVED ASSEMBLIES

System: Phoenix Tile, Madrid Tile, Nordic Tile

Deck Type: Wood, Non-insulated

Deck Description: $^{19}/_{32}$" or greater plywood or wood plank.

Slope Range: 2":12" or greater

Maximum Uplift Pressure: The maximum allowable design pressure for system shall be **–52.5 psf.**

Deck Attachment: In accordance with applicable building code, but in no case shall it be less than #8 x 1¾" wood screws or annular ring shank nails at a spacing of 6" o.c. at supports. For re-roof applications, minimum $^{15}/_{32}$" plywood deck panels shall be acceptable and attached to wood trusses using minimum #8 x 1¾" wood screws or annular ring shank nails at a spacing of 6" o.c. in addition to the 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 ¼" 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 Phenix Metals Steel Roofing Panel' current published installation instructions.

Battens: (Optional) Install nominal 1" x 4" battens pressure treated LP 2 or decay resistant lumber over underlayment at a maximum spacing of 13¾" using minimum of two #8-10 x 2½" bugle head screws spaced 12" o.c. and at ½" from each end.

Fire Barrier Board: For class A or B fire rating, install minimum ¼" 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 Phoenix Tile, Madrid Tile, Nordic Tile and accessories in compliance with 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.

Frank Zuloaga, RRC
Roofing Product Control Examiner

Fasteners shall be a minimum of #9 hex head metal/wood fasteners with color match cap and concealed 0.60 neoprene washers, of sufficient length to penetrate through the sheathing a minimum of 3/16", at a spacing not to exceed 14" o.c. Fasteners shall be place in accordance with fastener detail herein as follows:

Fasteners shall be installed at a tile valley of each vertical step at all side laps, at the tile valley of each horizontal tile step along eave, ridge and endlaps, and at the tile valley of every horizontal tile step in the field of each panel. This leads to 6 fasteners per panel width along the eave, ridge and endlap and 4 fasteners per panel width in the field of the panel.

Side laps are secured at each vertical tile step width one #9 metal/wood fastener with color match cap and concealed 0.60 neoprene washers, of sufficient length to penetrate through the sheathing a minimum of 3/16".

LIMITATIONS

1. The standard minimum roof pitch for Phoenix Metals applications is 2" rise in 12" run (2":12").

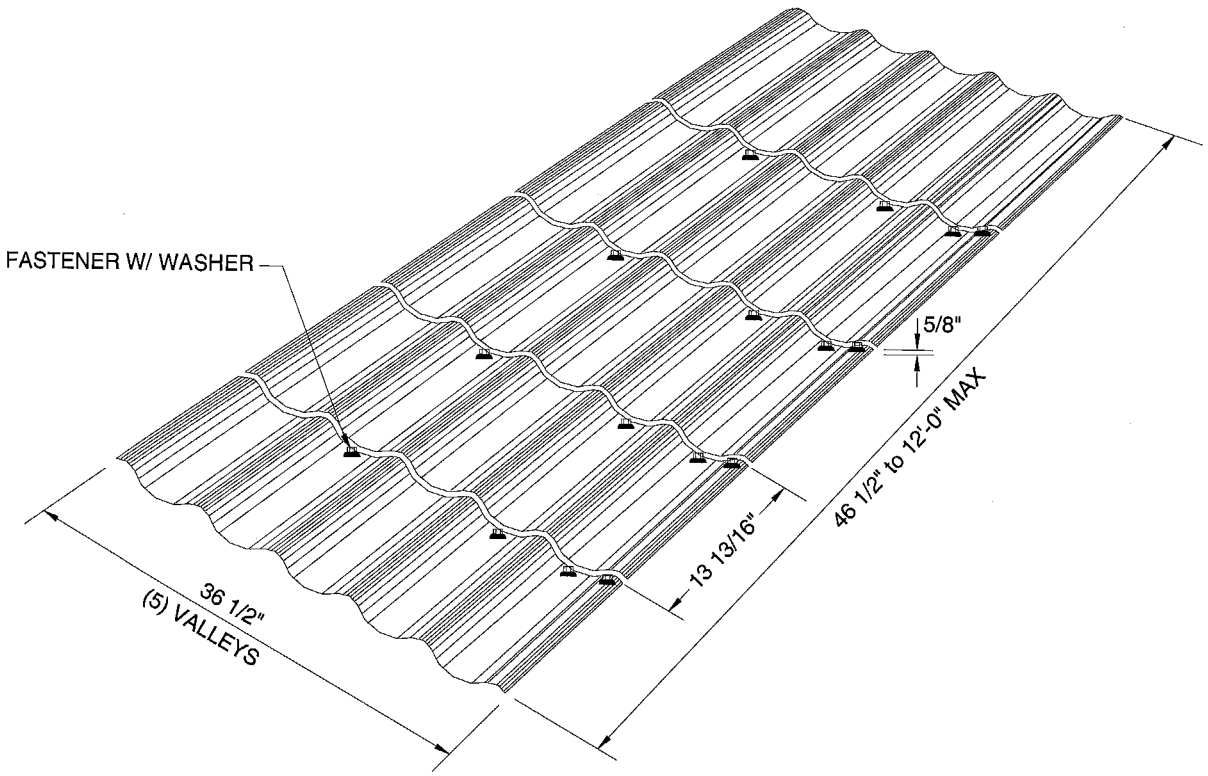
2. Increased design pressures at perimeter and corner areas, in compliance with applicable building code may be met through rational analysis by increasing the number of attachment points in these areas. The maximum fastener spacing noted in the "Systems Description" section of this approval shall not be exceeded. All rational analysis computation shall be prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant.

3. All panels shall bear the imprint or identifiable marking of the manufacturer's name or logo for identification in the field.

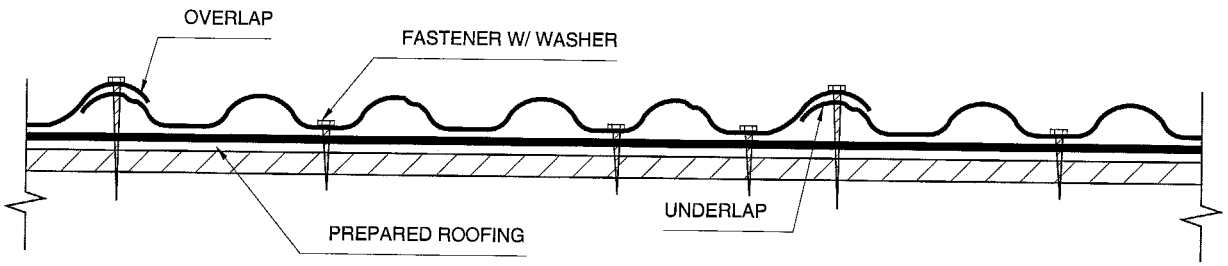
4. Fire classification is not part of this acceptance, refer to a current Approved Roofing Materials Directory for fire ratings of this product.

Frank Zuloaga, RRC
Roofing Product Control Examiner

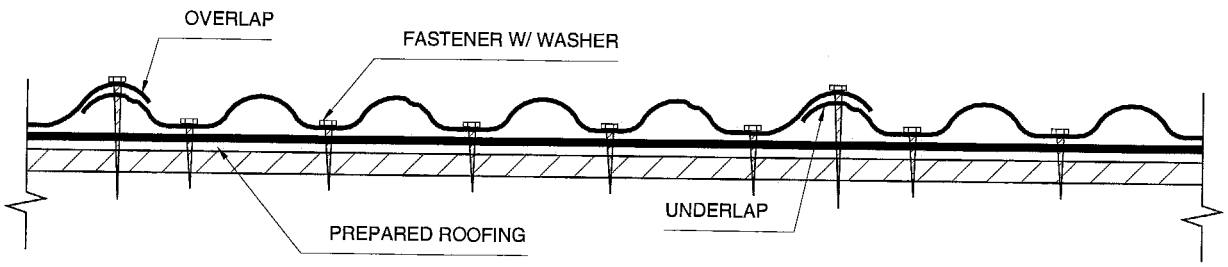
PROFILE DRAWINGS



PHOENIX TILE METAL PANEL



FIELD SECTION



EAVE, RIDGE & ENDLAP SECTION

FASTENER DETAILS

Frank Zuloaga, RRC
Roofing Product Control Examiner

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 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 times. The copies need not be resealed by the engineer.

8 Failure to comply with any section of this Acceptance shall be cause for termination and removal of Acceptance.

9 This Acceptance contains pages 1 through 6.

END OF THIS ACCEPTANCE

Frank Zuloaga, RRC
Roofing Product Control Examiner