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

Coma Cast Corporation
4383 S.W. 70th Court
Miami ,FL 33155

Your application for Notice of Acceptance (NOA) of:
Comatile Flat
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.: 01-0130.11
EXPIRES: 03/29/2006

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: 03/29/2001

APPROVED: March 29, 2001
EXPIRES: March 29, 2006

NOTICE OF ACCEPTANCE: STANDARD CONDITIONS

1. SCOPE

This renews a roofing system using Coma Cast "Comatile Flat" Concrete Roof Tile, as manufactured Coma Cast Corporation 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 pressure requirements, as determined by SFBC Chapter 23, do not exceed the design pressure values obtain by calculations in compliance with RAS 127 using the values listed in section 4 herein. The attachment calculations shall be done as a moment based system.

Category: Prepared Roofing
Sub Category: Flat Profile Tile

2. PRODUCT DESCRIPTION

Manufactured by Applicant	Dimensions	Test Specifications	Product Description
Comatile Flat	l = 16" w = 9 7/8" 1/2" thick	PA 112	Flat, interlocking, extruded concrete roof tile. For mortar set or adhesive set applications.
Trim Pieces	l = varies w = varies varying thickness	PA 112	Accessory trim, concrete roof pieces for use at hips, rakes, ridges and valley terminations. Manufactured for each tile profile.

2.1 COMPONENTS OR PRODUCTS MANUFACTURED BY OTHERS

Product	Dimensions	Test Specifications	Product Description	Manufacturer
Rainproof II	30" x 75' roll 36" x 75' roll or 60" x 75' roll	PA 104	Single ply, nail-on underlayment with 2" self-adhering top edge.	Protect-O-Wrap, Inc. (with current NOA)
Ice and Water Shield	36" x 75' roll	PA 103	Self-adhering underlayment	W.R. Grace Co. (with current NOA)

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Roofing Product Control Examiner

NOTICE OF ACCEPTANCE: STANDARD CONDITIONS

Product	Dimensions	Test Specifications	Product Description	Manufacturer
Tile Nails	Min. 10dx 3"	PA 114 Appendix E	Corrosion resistant screw or smooth shank nails	generic
Tile Screws	#8x 2 ½" long 0.335" head dia. 0.131" shank dia. 0.175" screw thread dia.	PA 114 Appendix E	Corrosion resistant, coated, square drive, galvanized, coarse thread wood screws	generic
Roof Tile Mortar ("TileTite™")	N/A	PA 123	Prepared mortar mix designed for mortar set roof tile applications.	Bermuda Roof Company, Inc. with current PCA
Roof Tile Mortar ("Quikrete® Roof Tile Mortar #1140")	N/A	PA 123	Prepared mortar mix designed for mortar set roof tile applications.	Quikrete Construction Products with Current PCA
Roof Tile Mortar ("BONSAL® Roof Tile Mortar Mix")	N/A	PA 123	Prepared mortar mix designed for mortar set roof tile applications.	W. R. Bonsal Co. with current PCA
Roof Tile Adhesive ("Polypro® AH160")	N/A	See PCA	Two component polyurethane adhesive designed for adhesive set roof tile applications.	Polyfoam Products, Inc.
Roof Tile Adhesive TileBond	Factory premixed canisters	See PCA	Single component polyurethane foam roof tile adhesive	Flexible Products (with current NOA)

3. LIMITATIONS

3.1 Fire classification is not part of this acceptance.

3.2 For mortar or adhesive set tile applications, a static field uplift test shall be performed in accordance with RAS 106.

3.3 Applicant shall retain the services of a Miami-Dade County Certified Laboratory to perform quarterly test in accordance with PA 112, appendix 'A'. Such testing shall be submitted to the Building Code Compliance Office for review.

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Roofing Product Control Examiner

3.4 Minimum underlayments shall be in compliance with the applicable Roofing Applications Standards listed section 4.1 herein.

3.5 30/90 hot mopped underlayment applications may be installed perpendicular to the roof slope unless stated otherwise by the underlayment material manufacturers published literature.

3.6 This acceptance is for wood deck applications. Minimum deck requirements shall be in compliance with chapter 29 of the SFBC.

4. INSTALLATION

4.1 Coma Cast Corporation and its components shall be installed in strict compliance with Roofing Application Standard RAS 118, RAS 119, and RAS 120.

4.2 Data For Attachment Calculations

Table 1: Aerodynamic Multipliers - λ (ft^3)

Tile Profile	λ (ft^3) Batten Application	λ (ft^3) Direct Deck Application
Comatile Flat	N/A	0.24

Table 2: Restoring Moments due to Gravity - M_g (ft-lbf)

Tile Profile	3":12	4":12	5":12	6":12	7":12
Comatile Flat	5.06	4.98	4.89	4.75	N/A

Table 3: Attachment Resistance Expressed as a Moment – M_f (ft-lbf) for Mortar or Adhesive Set Systems

Tile Profile	Tile Application	Attachment Resistance
Comatile Flat	Mortar Set	39.00
	Adhesive Set	118.90

5. LABELING

All tiles shall bear the imprint or identifiable marking of the manufacturer's name or logo, or 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 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.

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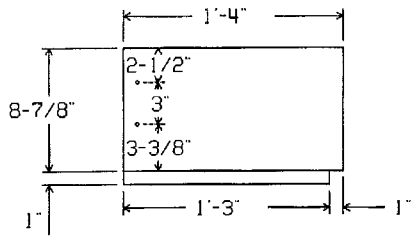
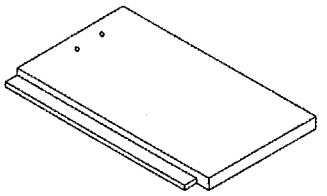
APPROVED: March 29, 2001
EXPIRES: March 29, 2006

NOTICE OF ACCEPTANCE: STANDARD CONDITIONS

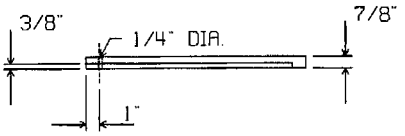
PROFILE DRAWINGS



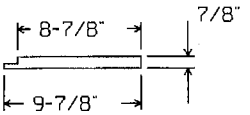
TOP VIEW



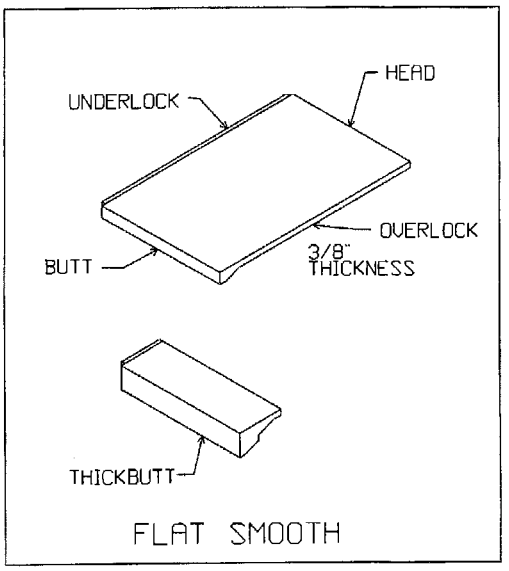
ISOMETRIC VIEW



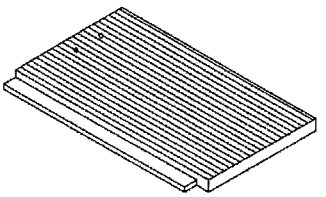
SIDE VIEW



FRONT VIEW



FLAT SMOOTH



BROOMSWEPT

COMATILE "FLAT"

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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 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 Approval", 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 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 through 5 and this last page 6.

END OF THIS ACCEPTANCE

Frank Zuloaga, RRC
Roofing Product Control Examiner

COMA CAST CORPORATION **ACCEPTANCE No. : 01-0130.11**

APPROVED: March 29, 2001
EXPIRES: March 29, 2006

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. TESTS:

Test Agency	Test Identifier	Test Name/Report	Date
The Center for Applied Engineering, Inc.	94-084	Static Uplift Testing PA 101	May 1994
The Center for Applied Engineering, Inc.	94-060A	Static Uplift Testing PA 101	March, 1994
Redland Technologies	P0631-01	Wind Tunnel Testing PA 108	July 1994
Testwell Craig Laboratories & Consultants, Inc.	Lab #:YF-1 Tech: G. Suarez	Physical Properties PA 112	Sept. 1994

B. CALCULATION

C. OTHER

1. Notice of Acceptance number 01-0130.11

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Roofing Product Control Examiner