



MIAMI-DADE COUNTY
 BUILDING CODE COMPLIANCE OFFICE (BCCO)
 PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA
 METRO-DADE FLAGLER BUILDING

140 WEST FLAGLER STREET, SUITE 1603
 MIAMI, FLORIDA 33130-1563
 (305) 375-2901 FAX (305) 375-2908

www.buildingcodeonline.com

NOTICE OF ACCEPTANCE (NOA)

Scandinavian Profiling Systems, Inc.
 3630 Quantum Blvd.
 Boynton Beach, FL. 33426

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Scandinavian Nordman Tile Metal Roof

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

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA 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 NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This renews and revises NOA #01-0820.03 and consists of pages 1 through 9.
 The submitted documentation was reviewed by Alex Tigera.



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ROOFING SYSTEM APPROVAL:

Category: Roofing
Sub-Category: Metal, Panels(Non-Structural)
Material: Steel

Deck Type: Wood
Maximum Design Pressure -136.75 psf

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

<u>Product</u>	<u>Dimensions</u>	<u>Test Specifications</u>	<u>Product Description</u>
Nordman™ Panel	l = 50' max w = 44 - 1/4"	TAS 110	Hot dipped galvanized (G-90) Kynar or PVC coated steel, clay-tile-look roofing panels.
Trim pieces	L=varies W=varies	TAS 110	Galvanized (G-90) Kynar or PVC coated.
HYLAR 5000™/KYNAR 500	N/A	TAS 110	Corrosion resistant flouorocarbon coating.
PLASTISOL	N/A	TAS 110	Corrosion resistant Polyvinyl Chloride (PVC) coating.

TRADE NAMES OF PRODUCTS MANUFACTURED OTHERS:

<u>Product</u>	<u>Dimensions</u>	<u>Test Specifications</u>	<u>Product Description</u>	<u>Manufacturer</u>
Pop Rivets	#8	TAS 114 Appendix E	Corrosion Resistant, standard steel pop rivets	generic
Sheet Metal Screws	#9	TAS 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:

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Test Name/Report</u>	<u>Date</u>
Underwriter Laboratories, Inc.	98RT4631	UL 580	June 1998
Hurricane Test Laboratory, LLC.	0197-0916-05	TAS-125	Feb. 2006
Center For Applied Engineering	MTS 257847A	PA 100	Nov. 1996
Construction Research Laboratory, Inc.	5855	Wind Driven Rain Test and Static Uplift Test	Jun. 1993
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



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APPROVED ASSEMBLIES

System: A:	Nordman™ Tile
Deck Type:	Wood, Non-insulated
Deck Description:	New Construction or 1 ⁹ / ₃₂ " or greater plywood or wood plank or Re-roof 15/32" plywood.
Slope Range:	2":12" or greater
Maximum Uplift Pressure:	See Maximum Design Pressures Listed Below.

- Deck Attachment:** In accordance with applicable building code, but in no case shall it be less than #8 x 1³/₄" 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 1³/₄" 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 ¹/₄" 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 Scandinavian Profiling Systems, Inc. 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 13³/₄" using minimum of two #8-10 x 2¹/₂" bugle head screws spaced 12" o.c. and at 1/2" from each end.
- Fire Barrier Board:** Any approved Fire Barrier having a current NOA. Or for class A or B fire rating, install minimum 1/4" 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 Nordman Tile™ Panel and accessories in compliance with Scandinavian Profiling Systems Inc. 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.

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".



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 placed in accordance with fastener detail herein as follows:

- Field Condition:** See Profile Drawings Detail A herein.
Maximum Design Pressure shall be -54.25 psf. (See System Limitation #1)
- Perimeter and Corner Condition:** See Profile Drawings Detail B herein.
Maximum Design Pressure shall be -136.75 psf. (See System Limitation #1)

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".



SYSTEM A-2: Nordman™ Tile
Deck Type: Wood, Non-insulated
Deck Description: Recover over existing Asphalt Shingle Roof
15/32" or greater plywood
Slope Range: 2":12" or greater
Maximum Uplift Pressure: The maximum allowable uplift pressure for System A-2 shall be **-52.5** psf.
(See Limitation #2)

Deck Attachment: For recover applications, existing deck attachments shall be confirmed to be in compliance with the minimum requirements of applicable Building Code.

Existing Shingles: Existing shingles shall be minimum Class 'C' organic felt shingles or minimum Class 'A' fiberglass shingles to maintain a Class 'A' or 'B' fire rating, as noted below.

Fire Barrier: (For a Class 'A' Fire Rating) Apply one layer of mechanically attached ½" thick UL Classification type X gypsum, with a moisture resistant facer and core, or apply one layer minimum 4mm thick of Tritex, RockRoof (with current NOA), or any approved fire barrier.

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.

Battens: (For a Class 'B' Fire Rating) Install minimum 2" x 2" wood battens of LP2 pressure treated or decay resistant lumber, running perpendicular to the roof slope, at a spacing of 13-¾" using a minimum of one #10 x 2-½" bugle head screws spaced 12" o.c. and ½" from each end.

Valleys: Valley construction shall be in compliance with Roofing Application Standard RAS 133 and with Scandinavian Profiling Systems, Inc. current published installation instructions.

Metal Panels and Accessories: Install the Nordman Tile™ Panel and accessories in compliance with Scandinavian Profiling Systems Inc. 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.

Fastener shall be #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 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 at the tile valley of every other horizontal tile valley in the field of each panel. This leads to 7 fasteners per panel width along the eave & ridge and 4 fasteners per panel width in the field of the panel. See **Profile Drawing Detail C**.

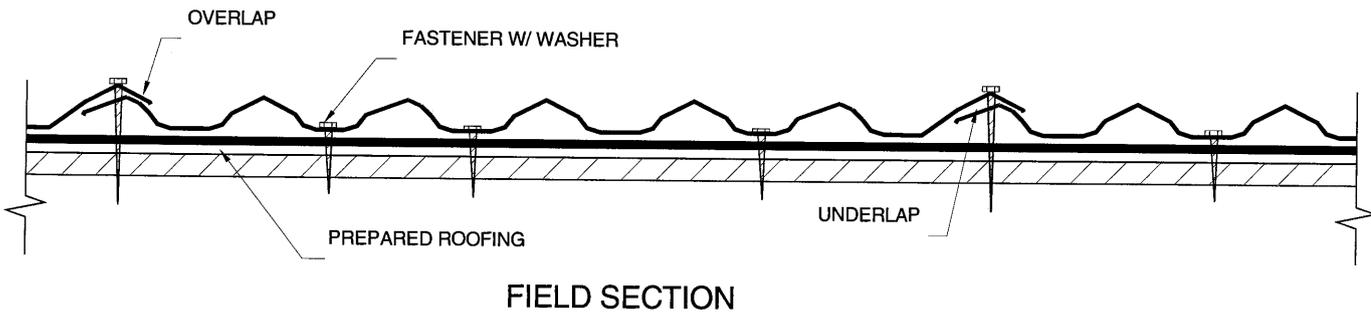
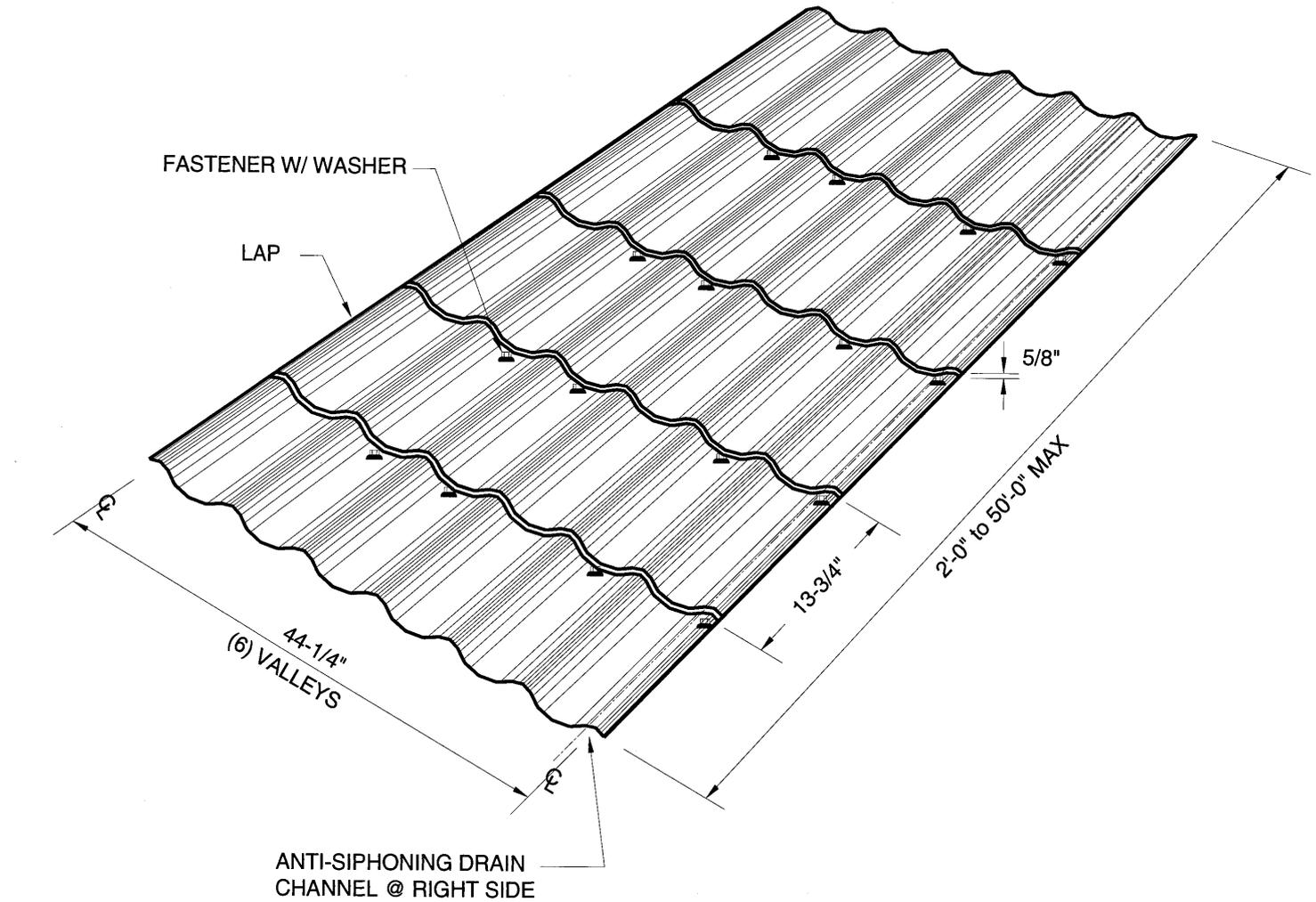
Side laps are secured at each vertical tile step width one #9 metal/wood fastener with color match cap and concealed 0.60 neoprene washers, of sufficient length to penetrate through the sheathing a minimum of 3/16".

SYSTEM LIMITATIONS:

1. The maximum designed pressure listed herein shall be applicable to all roof pressure zones (i.e. field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e. perimeters, extended corners and corners).
2. All panels shall be permanently labeled with the manufacturer's name and/or logo, and the following statement: "Miami-Dade County Product Control Approved.
3. Fire classification is not part of this acceptance, refer to a current Approved Roofing Materials Directory for fire ratings of this product.



**PROFILE DRAWINGS
DETAIL A
(SYSTEM A-1 FIELD CONDITION)**

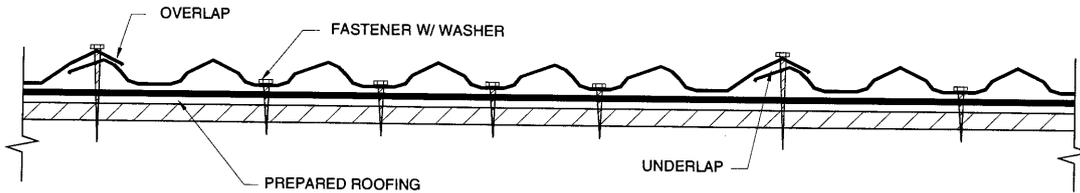
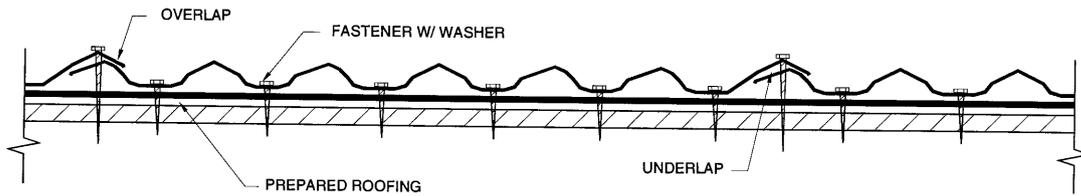
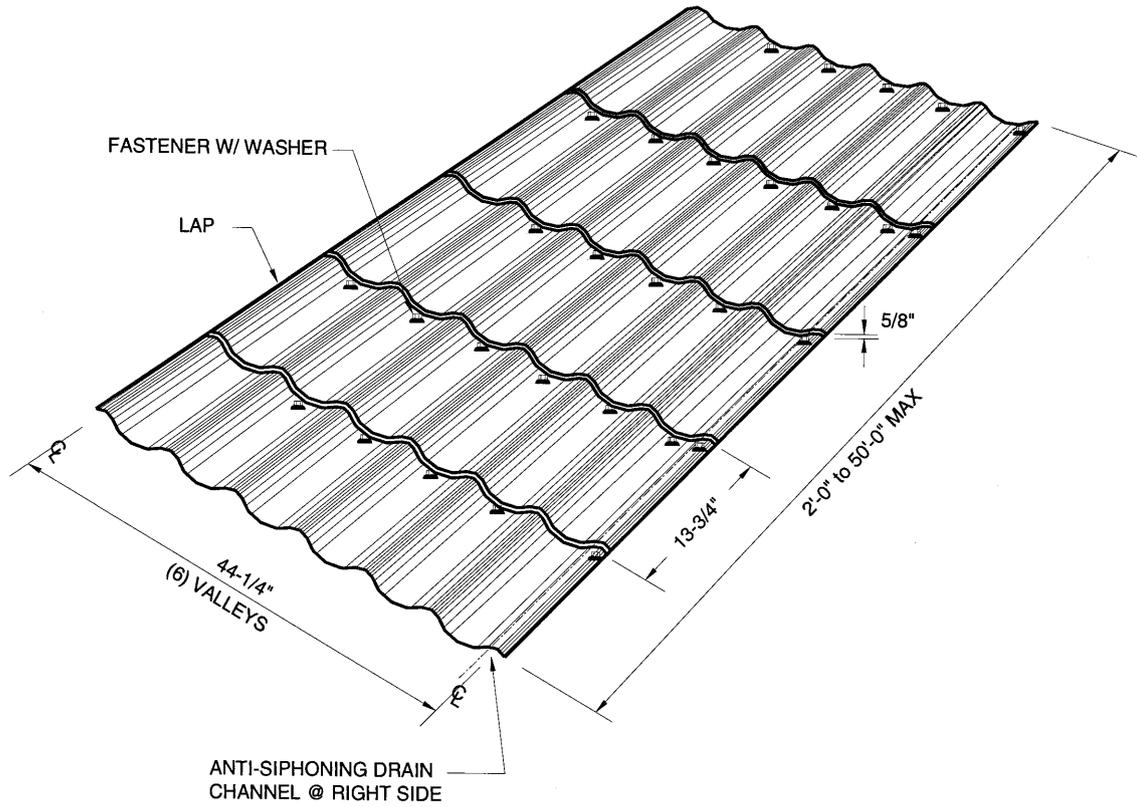


NORDMAN TILE



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PROFILE DRAWINGS CONT.
DETAIL B
(SYSTEM A-1 PERIMETER AND CORNER CONDITION)



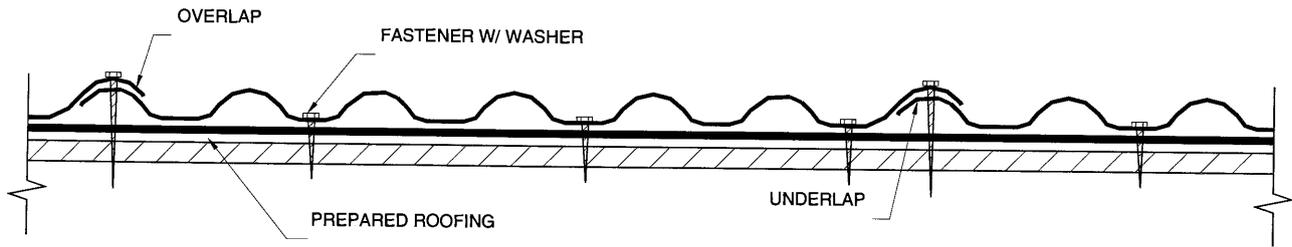
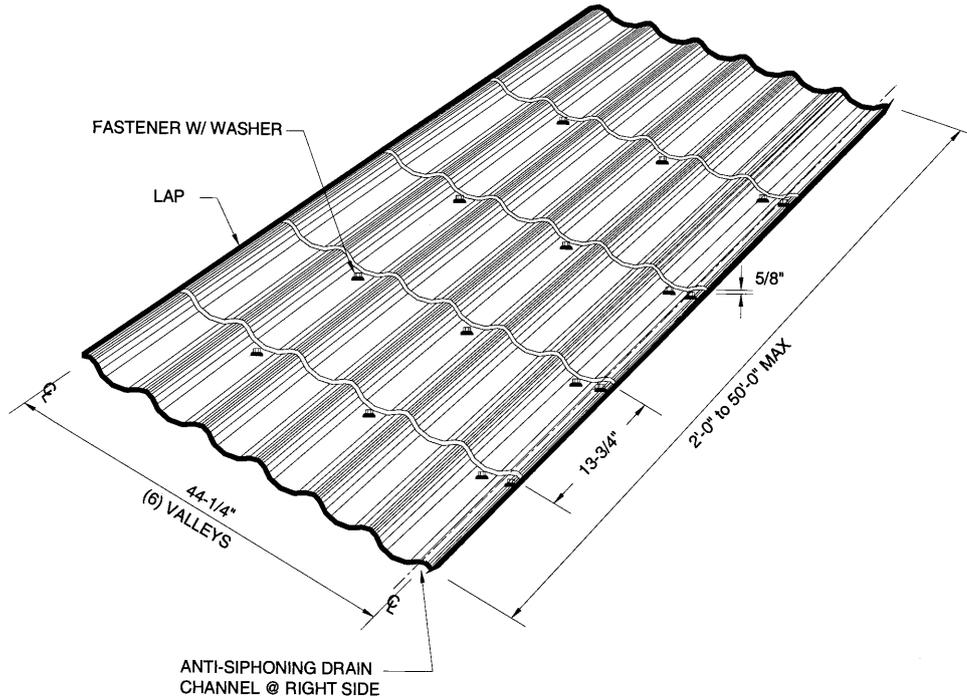
Every other vertical step shall be fastened with this pattern

NORDMAN TILE

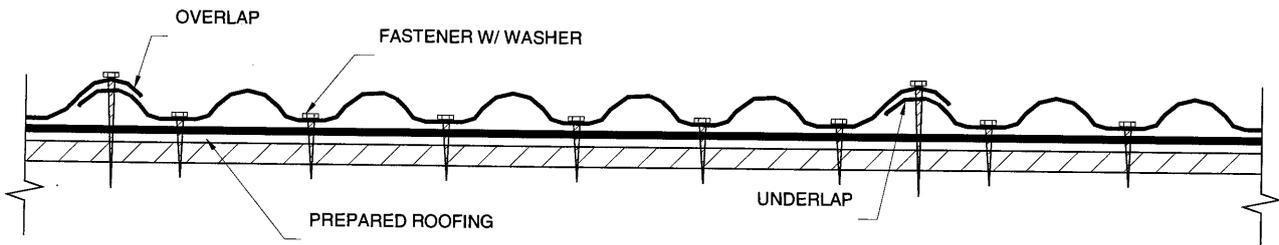


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**PROFILE DRAWINGS CONT.
DETAIL C
(SYSTEM A-2)**



FIELD SECTION



EAVE, RIDGE & ENDLAP SECTION

**FASTENER DETAIL
END OF THIS ACCEPTANCE**



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