



ONDA MODERN INTERLOCKING TAPERED SPANISH 'S'
NORTHERN ROOF TILES U.S. INC.
IMPORTERS OF FINE CLAY ROOF TILES SINCE 1991

ONDA - Interlocking Tapered 'S'

MANUFACTURER INFORMATION

Manufacturer: Tejas Cobert
Factory Location: Outeiro (Portugal)
Importer: Northern Roof Tiles US Inc.

Weatherproof and perfect fit

Deep double side & headlocks give total weather protection

Smooth Finish

A wide range of natural shades and glazed colors are available

Comes complete with an extensive range of fittings and accessories

Thick butt

Gives strong horizontal shadow lines on the roof



A 2018 version of the traditional Spanish 'S' profile



Suitable for installation on low pitch roofs

Top of the range aesthetics

Traditional visual break between two rounded barrel tiles, contrast with its pure lines and surface finish

APPROVALS & CERTIFICATIONS

ASTM C1167 Grade 1
FIRE RATED - Class A UNE 13501-1
UNE EN 1304
Aenor EN 1404
Certif EN 1304
Apcer ISO 9001
IQNET ISO 9001

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IMPORTERS OF FINE CLAY ROOF TILES SINCE 1991

4023 Kennett Pike, Suite 856, Wilmington DE 19807-2018

Phone: 888.678.6866 Fax: 888.389.2682

www.NORTHERNROOFTILES.com

TILE DETAILS

Tile Profile:	Onda Interlocking Tapered 'S'
Tile Size:	18" x 11 1/4"
Tile Exposure:	16" x 9 1/4"
Pieces Per Square:	98
Weight Per Piece:	9 lbs
Weight Per Square:	890 lbs
Available Colors:	Natural Red, Tobacco, Magma (Aged Red) Glazed Dubai Blue & Glazed Emerald Green - Special Production Color: Glazed Cobalt Blue

AVAILABLE FITTINGS

Ridge Tile - 15" Interlocking
Ridge Starter
Hip Tile - 15" Interlocking
Hip Starter
Right & Left Hand Gable Tiles
Half Tile
3 Way Terminal

GREEN FRIENDLY

100% Recyclable Material
Solar Ready Installation
Green Energy Production

MANUFACTURING & FIRING PROCESS:

After the raw clay has been prepared and processed it is extruded into pads.

At this point the clay will have a moisture content of between 5 and 7%.

The pad is pressed between two dies which form the top and underside of the tile. The shaped tile after pressing, is dried to reduce the moisture content to less than 1%. The drying process also heats the tile close to 250 °C in preparation for firing.

Once dried the tile is loaded onto individual cassettes and travel thru the kiln which fires the tiles to over 1000 Deg C. During this firing process the engobe becomes fuzzed to the tile and becomes an integral part of the tile.

In addition, we only paint with color engobes over brown clay (with manganese) because the dimensional stability is better for the long life of the color in the roof avoiding cracking.



ICE
RESISTANCE



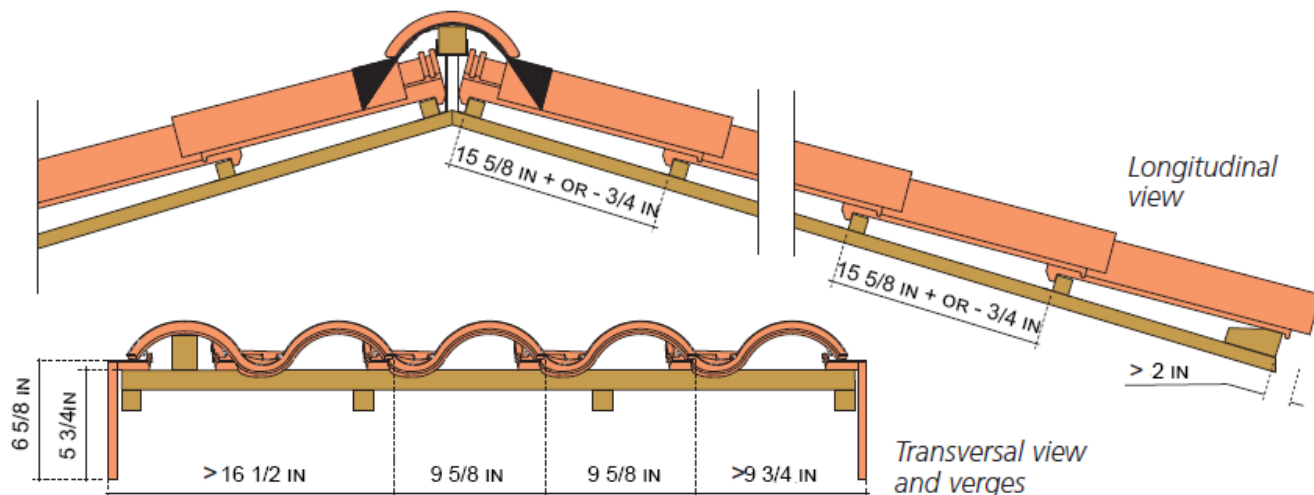
VERY LOW
ABSORPTION



HIGHEST
BREAKING
STRENGTH



MAXIMUM
IMPERMEABILITY



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Weight Per Pallet: 1940 lbs

Regular Production Colors



NATURAL RED



TOBACCO



MAGMA (AGED RED)



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GLAZED DUBAI BLUE



GLAZED EMERALD



ONDA - Interlocking Tapered 'S'



Hip / Ridge Tile



Hip Starter



Ridge End



Gable - Left



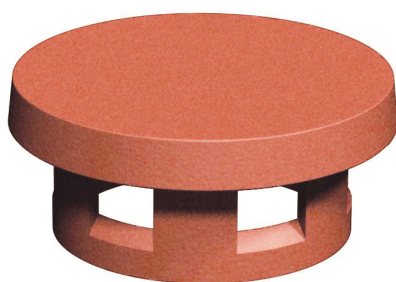
Gable - Right



3 Way



Pipe Tile



Lantern Tile



Bird Stop



Wedge Tile



Wedge Tile



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