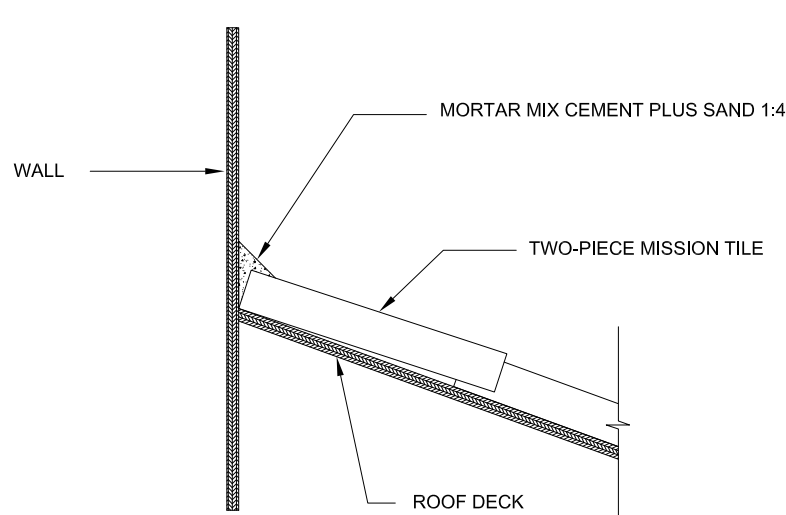


RIDGE INSTALLATION

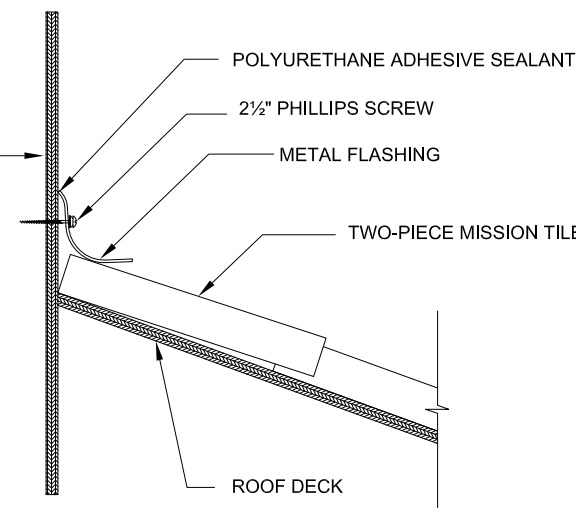
RECOMMENDED GUIDELINES TO INSTALL THE RIDGE TILE:

- INSTALL 3/4" X 1 1/2" HORIZONTAL WOOD BATTEN AT THE HIGHEST POINT OF THE ROOF TO ALIGN THE RIDGE.
- FILL IN WITH MORTAR AS NECESSARY ON THE SIDE OF THE BATTENS IN ORDER TO PLACE THE RIDGE TILE.



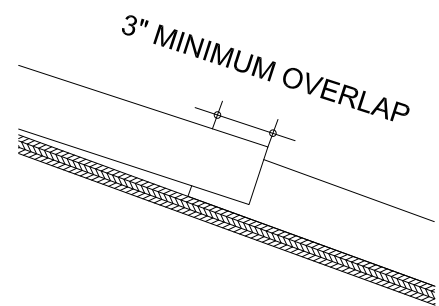
ROOF-TO-UPPER WALL FINISHED DETAIL MORTAR

IN ORDER TO HAVE BETTER SEALING RESULTS, IT IS RECOMMENDED TO PLACE MORTAR AT THE WALL AND TILE JOINT, AS SHOWN



ROOF-TO-UPPER WALL FINISHED DETAIL METAL FLASHING

TO ENSURE PROPER SEALING, INSTALL METAL FLASHING AS SHOWN. USE 2 1/2" PHILLIP SCREW AND SEAL WITH POLYURETHANE ADHESIVE SEALANT AT JOINT BETWEEN FLASHING AND WALL.

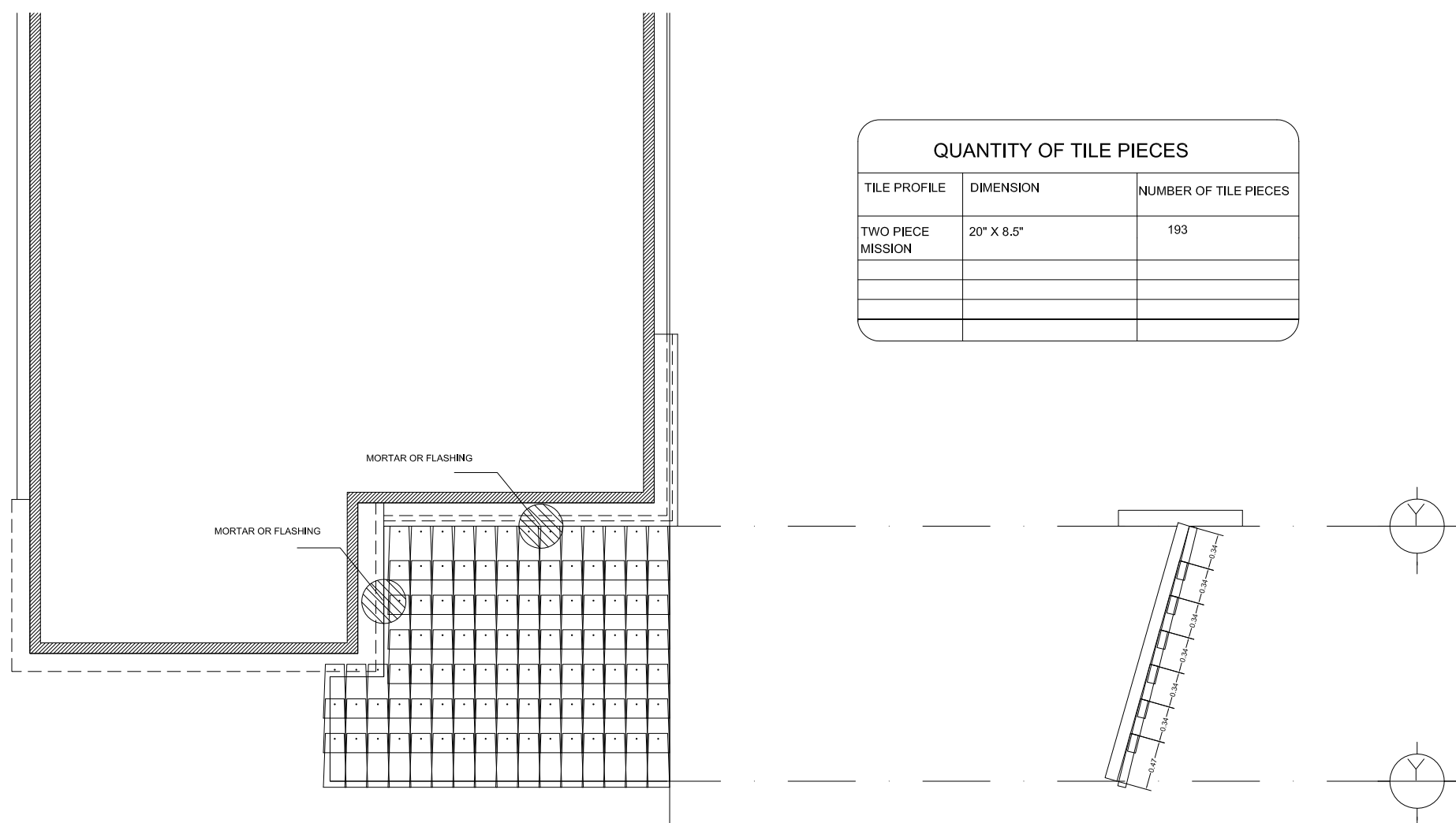
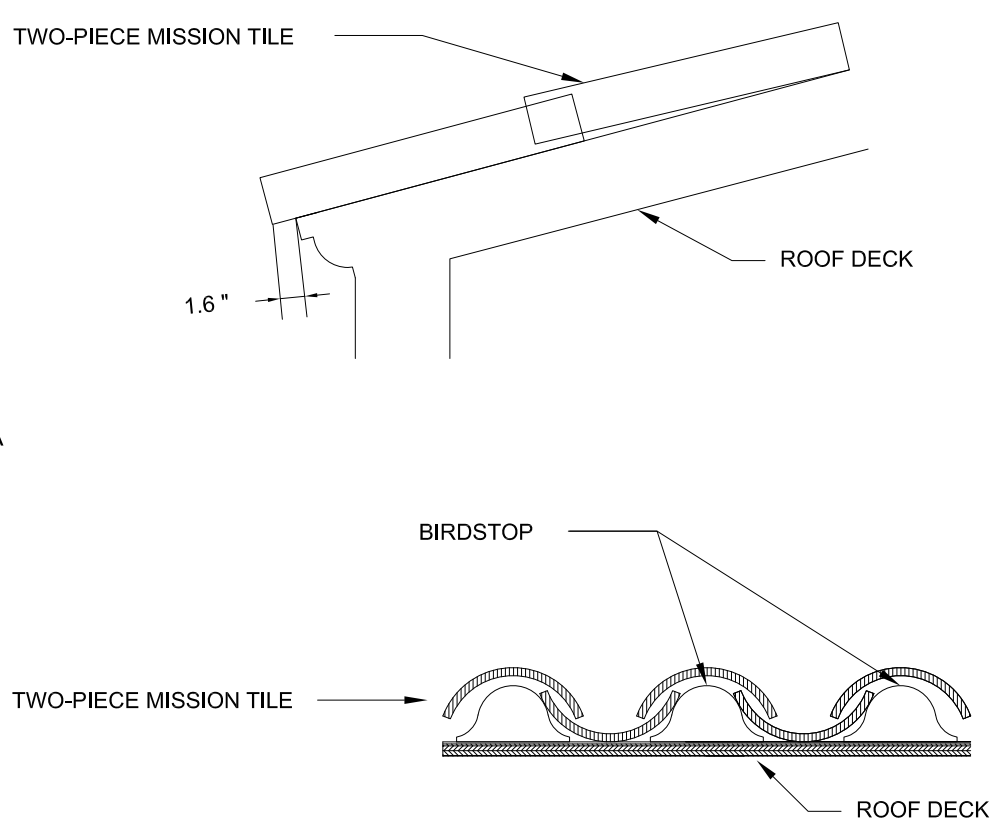


HORIZONTAL COURSE OVERLAP

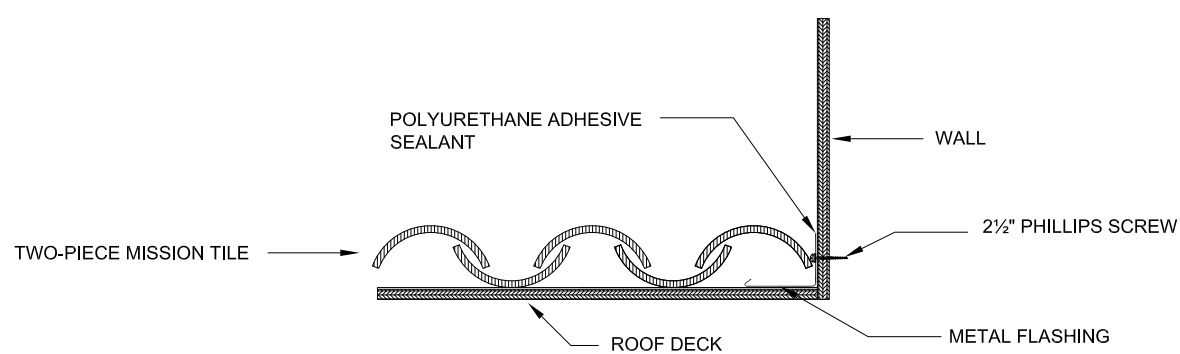
OVERLAP WILL VARY DEPENDING ON THE ROOF DIMENSIONS AND SHAPE. A 3" MINIMUM OVERLAP IS REQUIRED.

EAVE DETAIL

- THE FIRST COURSE LINE WILL NEED A MINIMUM OF 1.6" OVERHANG.
- IT IS RECOMMENDED TO INSTALL A BIRDSTOP AT THE STARTER TILE TO ALIGN THE FIRST COURSE LINE.

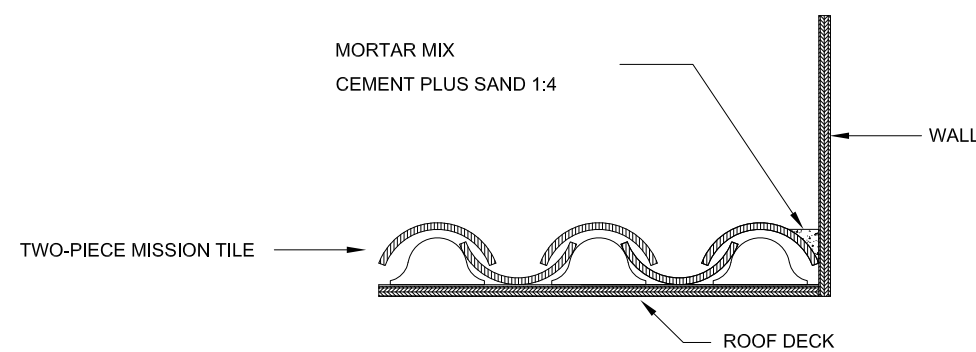


QUANTITY OF TILE PIECES		
TILE PROFILE	DIMENSION	NUMBER OF TILE PIECES
TWO-PIECE MISSION	20" X 8.5"	150



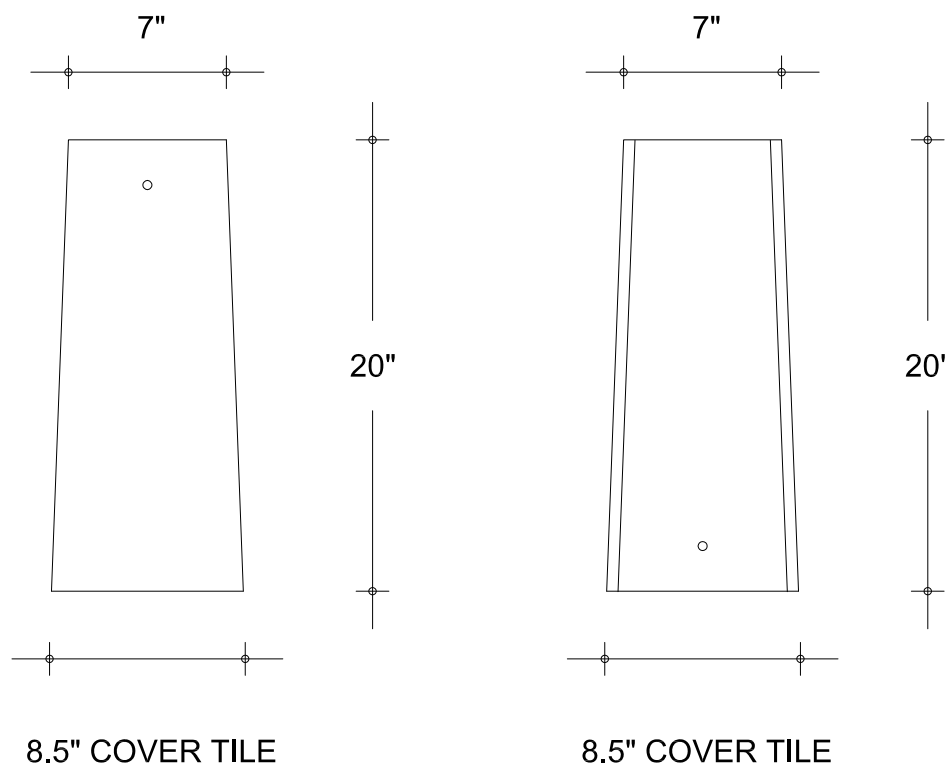
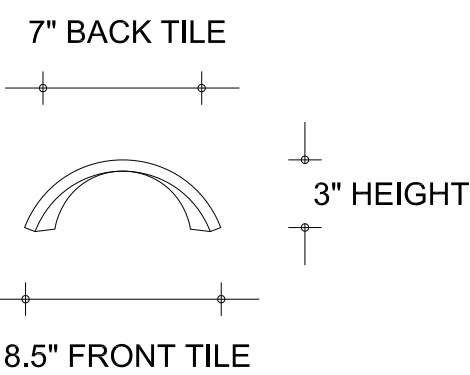
ROOF-TO-SIDE WALL FINISHED DETAIL METAL FLASHING

TO ENSURE PROPER SEALING, IT IS RECOMMENDED TO INSTALL A METAL FLASHING, AS SHOWN IN THE DRAWING. USE 2 1/2" PHILLIPS SCREW AND FINISH WITH POLYURETHANE ADHESIVE AT FLASHING AND WALL JOINT.



ROOF-TO-SIDE WALL FINISHED DETAIL MORTAR

TO ENSURE PROPER SEALING, APPLY MORTAR AT WALL AND TILE JOINT, AS SHOWN IN THE DRAWING.

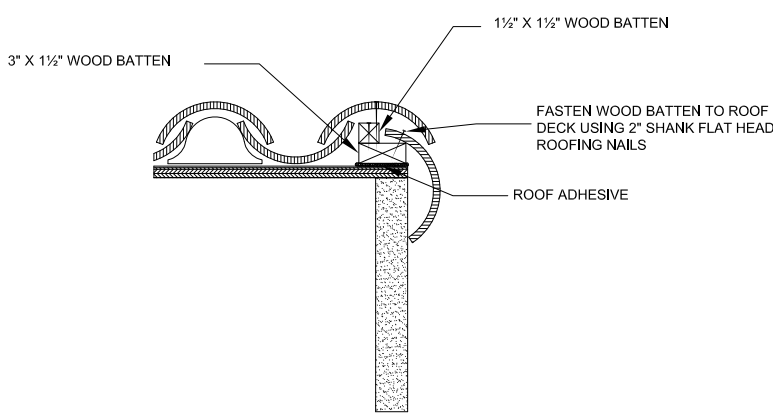


TWO-PIECE MISSION TILE

RAKE TILE FASTENING DETAIL

FOR THE RAKE TILE AT SIDEWALL, FIRST, FASTEN TOGETHER, ONE 3" X 1 1/2" WOOD BATTEN NEXT TO ANOTHER 1 1/2" X 1 1/2" WOOD BATTEN, AS SHOWN IN THE DRAWING. ONCE THE BATTENS HAVE BEEN FASTENED, USING A 2" SHANK FLAT HEAD ROOFING NAIL, FASTEN THE RAKE TILE FIRST ON THE SIDE AND LAST, THE COVER TILE OVER WOOD BATTENS AND RAKE TILE.

NOTE: IN ORDER TO AVOID WATER INFILTRATIONS AND/OR OTHER ROOF DAMAGE, IT IS RECOMMENDED TO USE ROOF ADHESIVE TO FASTEN THE WOOD BATTEN TO THE ROOF DECK.



INSTALLATION NOTE

FOR MORTAR FASTENING IN MODERATE WIND REGIONS, USE A MIX OF CEMENT PLUS SAND (1:4) AND FOLLOW THESE RECOMMENDATIONS:

PAN TILE:

STEP 1

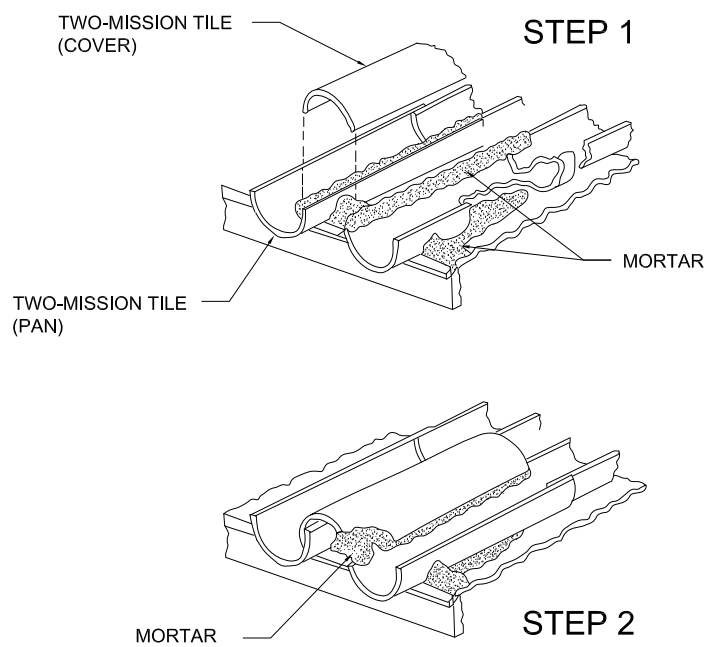
- APPLY A 10" X 4" LINE OF MORTAR BETWEEN TILE AND ROOF DECK AS SHOWN, IN SUCH MANNER THAT THE TILE LIES COMPLETELY OVER THE MORTAR MIX.

COVER TILE:

STEP 2

- INSIDE OF EACH PAN TILE APPLY A 10" LONG LINE OF MORTAR, PLACE COVER TILE LYING COMPLETELY OVER THE MORTAR MIX.

PROJECT SCOPE: FASTENING OF TILES AROUND THE ROOF PERIMETER AND FIELD OVERLAPPING TILES WITH THE USE OF FOAM.



STEP 1

STEP 2

FASTENING OPTION: MORTAR

INSTALLATION NOTE

APPLY POLYURETHANE FOAM TO FASTEN THE TILE TO THE ROOF DECK, ESPECIALLY IN MODERATE WIND REGIONS. FOLLOW THESE RECOMMENDATIONS:

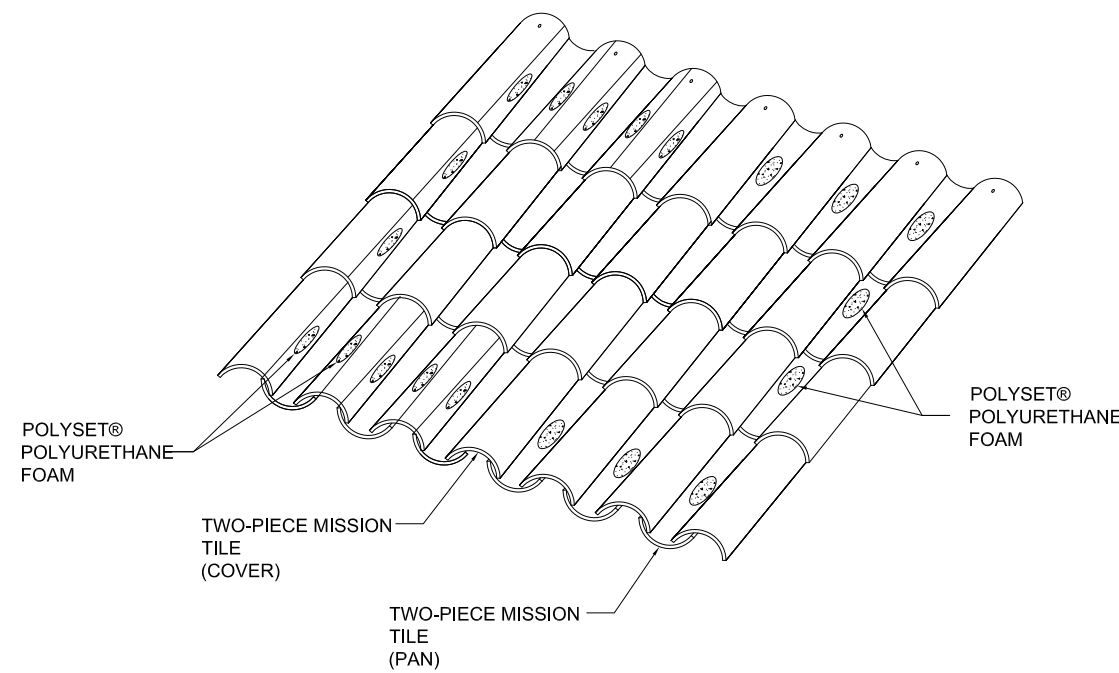
PAN TILE:

- APPLY ONE SHOT OF 10" X 2" LONG APPROXIMATELY, SET THE TILE OVER SO THE FOAM EXPANDS AND ATTACHES THE TILE COMPLETELY.

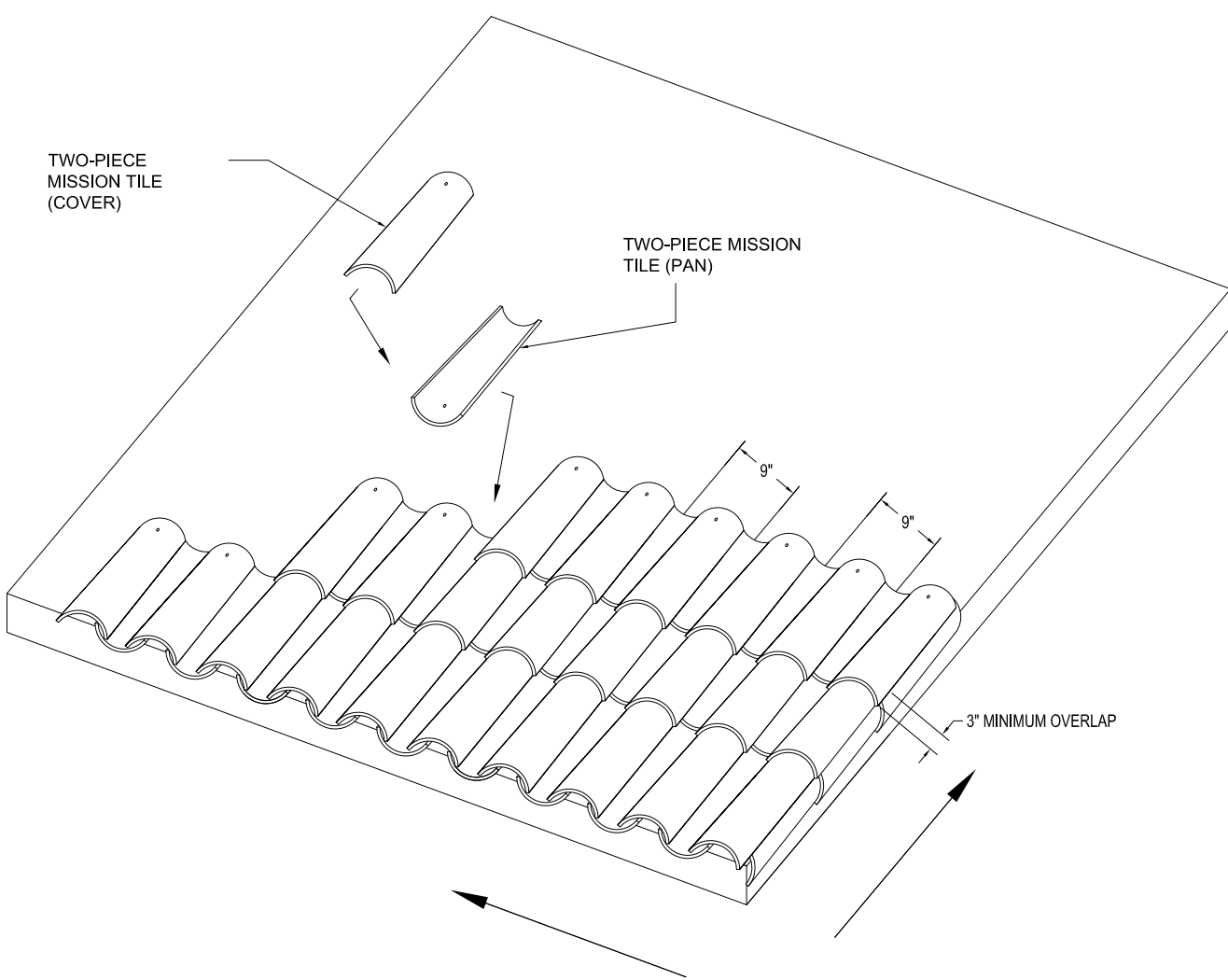
COVER TILE:

- APPLY TWO SHOTS OF 10" X 1" LONG ON EACH SIDE OF THE TILE AND PLACE THE COVER TILE AS SHOWN IN THE DRAWING.

PROJECT SCOPE: FASTENING OF TILES AROUND THE ROOF PERIMETER AND FIELD OVERLAPPING TILES WITH THE USE OF FOAM.



FASTENING OPTION: POLYURETHANE FOAM



TWO-PIECE MISSION LAYOUT

TWO-PIECE MISSION TILE LAYOUT STARTS FROM BOTTOM TO TOP, RIGHT TO LEFT (IT CAN ALSO BE LEFT TO RIGHT), LAYING DOWN COMPLETE COURSES AS SHOWN IN THE DRAWING.

IT IS RECOMMENDED TO MARK VERTICAL LINES EVERY 9" ON CENTER FROM CAP TILE TO TILE BASE, IN ORDER TO OBTAIN BETTER LAYOUT AND DISTRIBUTION.

A MINIMUM 3 INCH OVERLAP MUST BE MAINTAINED FOR EACH TILE.

FOR BEST WATERPROOFING RESULTS, IT IS RECOMMENDED A MINIMUM OF 2:12 OR LOW ROOF PITCH SLOPE.

TWO-PIECE MISSION TILE SPECIFICATIONS

THIS TILE IS MADE OF CLAY, PIGMENTS AND AGGREGATES.

COLOR	-----	VARIABLE
WIDTH	-----	8.5 INCHES
LENGTH	-----	20 INCHES
THICKNESS	-----	0.5 INCH
HEIGHT	-----	3 INCHES
WEIGHT PER TILE	-----	7 LBS.
WEIGHT PER SQUARE	-----	1070 LBS.
PIECES PER SQUARE	-----	154
RESISTANCE PER PIECE	-----	440 LBS.

TWO-PIECE MISSION TILE MIGHT BE INSTALLED USING DIFFERENT FASTENING SYSTEMS ACCORDING TO THE TILE PROFILE AND WIND AREA.

MINIMUM RECOMMENDED SLOPE FOR BEST WATERPROOFING SYSTEM RESULTS: 2:12, WITH A MINIMUM OVERLAP OF 3 INCHES.

**THESE VALUES AND DRAWINGS SHOWN ARE INTENDED FOR REFERENCE AND MAY VARY FROM CASE TO CASE. REDLAND CLAY TILE EXPRESSLY DISCLAIMS ANY WARRANTIES EXPRESSED OR IMPLIED BY ANY INFORMATION HEREIN.**