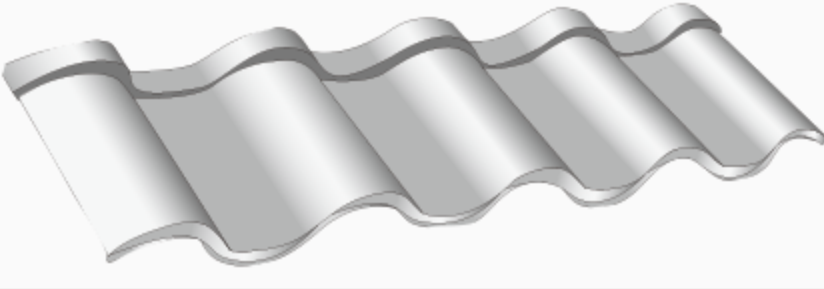
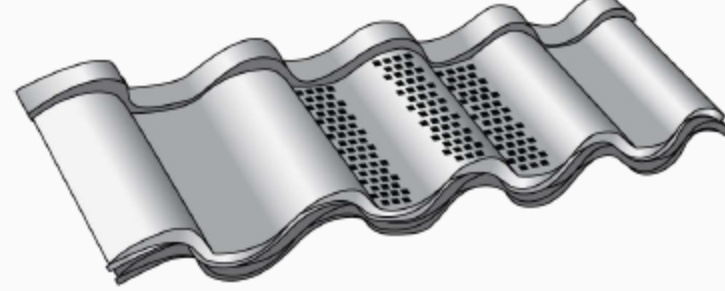


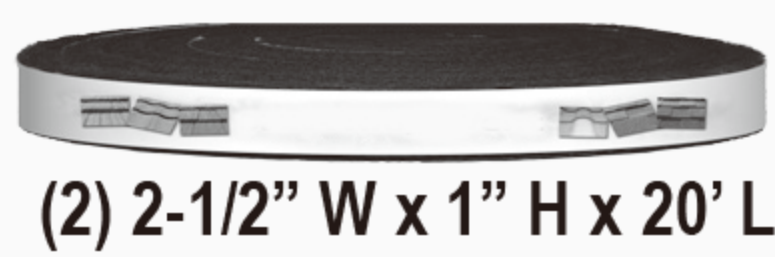




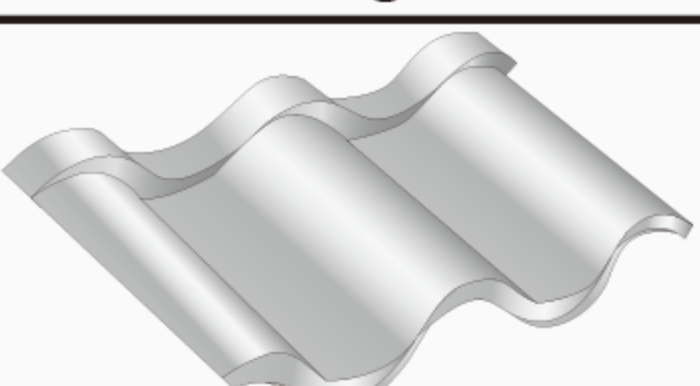
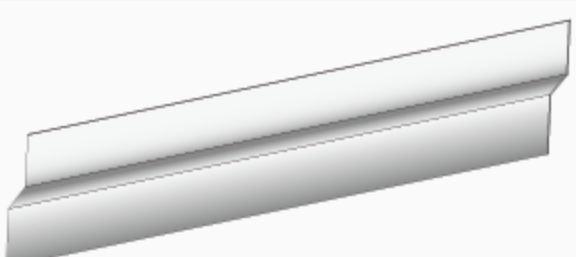



Description	Profile	Color	Calculations	Total
(A) Villa Tile 25.2 panels per square 14-1/2" exposure – min pitch 3:12		Select	Squares x 25.2= Panels (6-10% Waste Factor)	
Villa Tile Panel Vent		Select		
(B) Tile Hip & Ridge As needed for hips, ridges & rake/gables	 14-1/2" exposure	Select	Linear Feet x 12 ÷ 14.5 = Pieces Needed	
Tile End Cap		Select	As needed for closure at hip, ridge & rake/ gable at eave	
Ridge Vent (2) 20' rolls / package	 (2) 2-1/2" W x 1" H x 20' L	n/a	Linear Feet Ridge ÷ 20 = Packages Needed	
(C) Villa Channel For use along hips (both sides) and rakes/gables (finish with H&R Piece) Also for use along sidewalls, including skylights and chimneys	 6'6" Length	n/a	Linear Feet ÷ 6 = Pieces Needed (x2) For Hips (x1) for Other (Includes 6" overlap)	
(D) Villa Bird Stop - Eave For use along eaves at first course	 5' Length	Select	Linear Feet of Eave ÷ 5 = Pieces Needed (When estimating allow for 7/8" overlap)	
(E) Villa Bird Stop - Ridge For use along ridges, on both sides of ridge	 5' Length	Select	(Linear Feet Ridge x 2) ÷ 5 = Pieces Needed (When estimating allow for approx. 1-1/2" overlap)	
(F) Villa Valley 17" Wide	 6'6" Length	n/a	Linear Feet ÷ 6 = Pieces Needed (Includes 6" overlap)	
(G) Villa Underpan 18-1/4" x 22" (Use with Non-Lead Pipe Jacks)		n/a	1 per Roof Penetration	
Side Flashing For use to counter flash side wall	 6'6" Length	Select	Linear Feet ÷ 6 = Pieces Needed (Includes 6" Overlap)	
Flat Sheet 16" x 54"		Select		
Corrosion Resistant Screws #10 Hex (1/4" head) x 1-1/2" long	2,000 / box Use fasteners of sufficient length to penetrate through the sheathing (deck) by at least 1/2"	n/a	1 Box (2,000 pcs) per 15 Squares	
Color Coordinated Corrosion Resistant Screws #10 Hex (1/4" head) x 1-1/2" long	500 pc / bag 4 bags / box	SelectScrewColor	(Number of Hip & Ridge Pieces + Linear Feet Fascia/Bird Stop - Eave) x 2	
1x2 and or 2x2 Timber Battens (Non-Treated)	Stacked 2x2s / 1x2s at rake/gable, hips and ridges as needed	n/a		
1x4 Timber Battens (Non-Treated)	For use on first course	Select		
Touch-Up Kit or 5 lb. Bag of Chip Use at penetrations, transitions & panels	Bag of stone chip & cartridge of roof sealant or 5 lb. Bag of Chip	Select		

(A) Villa Tile Field Panels
(6-10% waste)
25.2 panels per square

(B) Tile Hip & Ridge
(along hip, ridge and rake/gable)
Tile Hip & Ridge Pieces
14-1/2" exposure

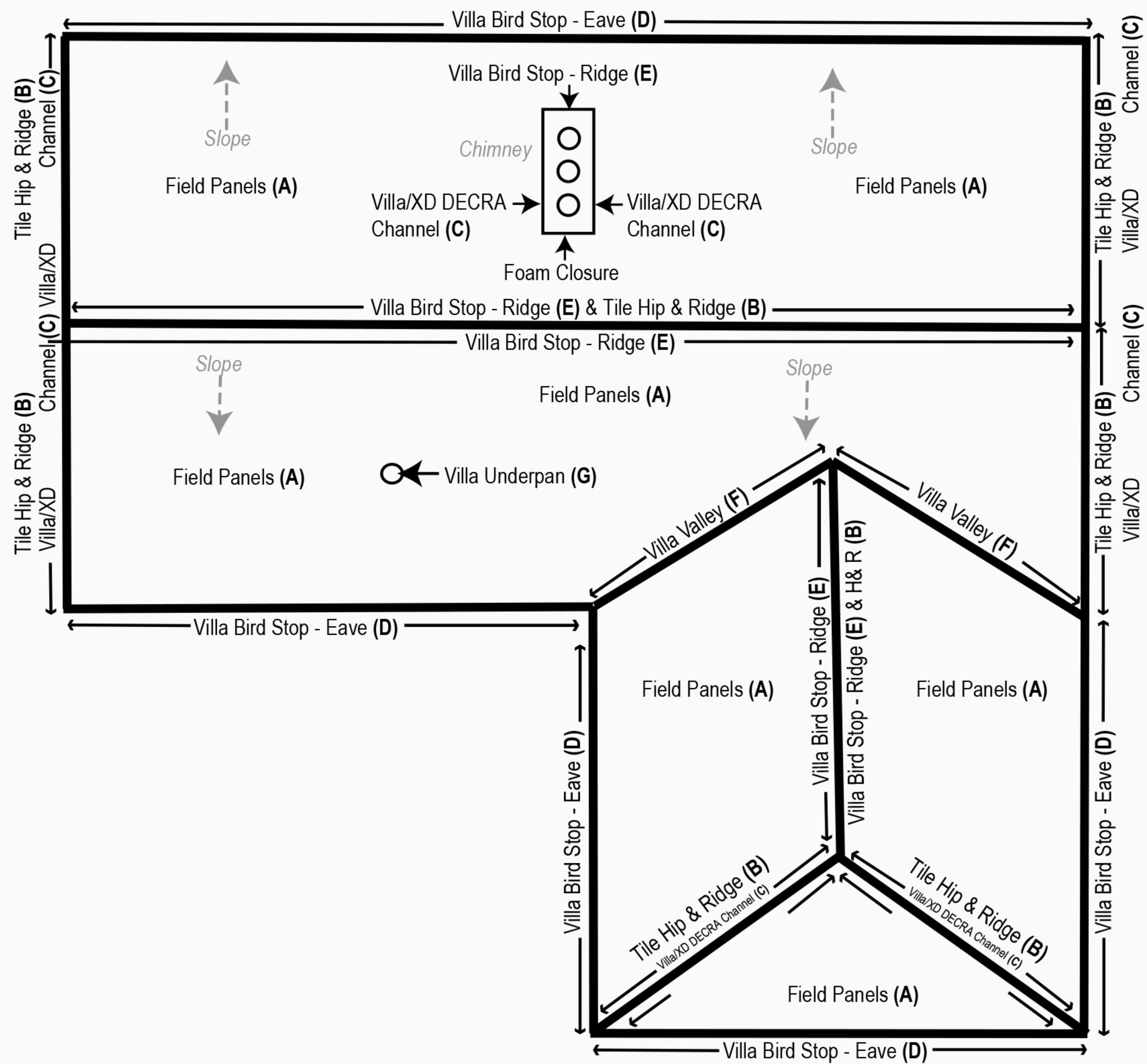
(C) Villa/XD Channel
(rake/gable, roof-to-wall and
along both sides of the hip)
6'6" Lengths

(D) Villa Bird Stop - Eave
5' Lengths

(E) Villa Bird Stop - Ridge
5' Lengths

(F) Villa Valley
6'6" Lengths

(G) Villa Underpan
18-1/4" x 22"



- ✓ Tin Snips
- ✓ Local Code Requirements
- ✓ Table Saw
- ✓ Roofing Grade Sealant/Adhesive
- ✓ Galvanized Pipe Jacks (No Lead)
- ✓ 2 x 2s to secure Hip & Ridge Pieces along rakes/gables, hips and ridges (Should equal the same linear footage as total Hip & Ridge Pieces, each Hip & Ridge Piece equals 14-1/2")
- ✓ 1 x 4s or 1 x 2s (in same total linear feet as Villa Bird Stop - Eave) set back 15-1/2" from the fascia. measurement (D) in the roof diagram above. Secure lumber and the back of the first course of panels using No. 10 screws that will fit flat to the 1 x 4 and are long enough to securely penetrate the deck.
- ✓ Villa Bird Stop – Eave overlaps 7/8" and must be notched to assure proper fit into Villa Channel at rake/gable, hip and roof-to-wall.
- ✓ One layer of Underlayment is required.
- ✓ Tape Measure
- ✓ Circular Saw
- ✓ Screw Gun
- ✓ Hand Seamer
- ✓ Spray Paint

Panels Needed

Rafter Length		Eave Length
1' 2"	1	3' 3"
2' 4.5"	2	6' 6"
3' 7"	3	9' 9"
4' 9.5"	4	13'
6'	5	16' 3"
7' 2.5"	6	19' 6"
8' 5"	7	22' 9"
9' 7.5"	8	26'
10' 10"	9	29' 3"
12'	10	32' 6"
13' 3"	11	35' 9"
14' 5.5"	12	39'
15' 8"	13	42' 3"
16' 10.5"	14	45' 6"
18'	15	48' 9"
19' 3.5"	16	52'
20' 6"	17	55' 3"
21' 8.5"	18	58' 6"
22' 11"	19	61' 9"
24' 1.5"	20	65'

Use as guide only