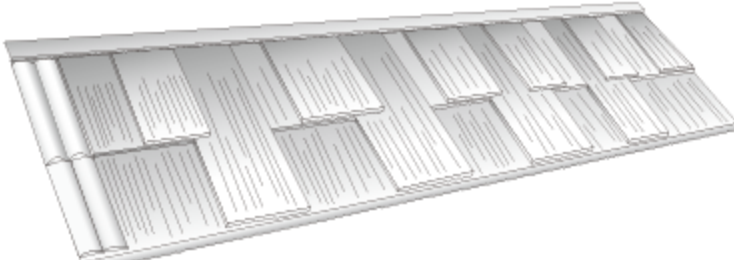

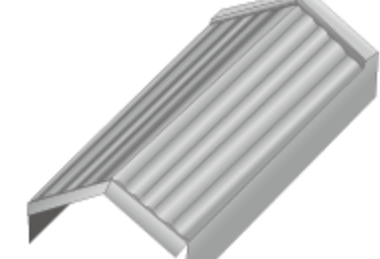








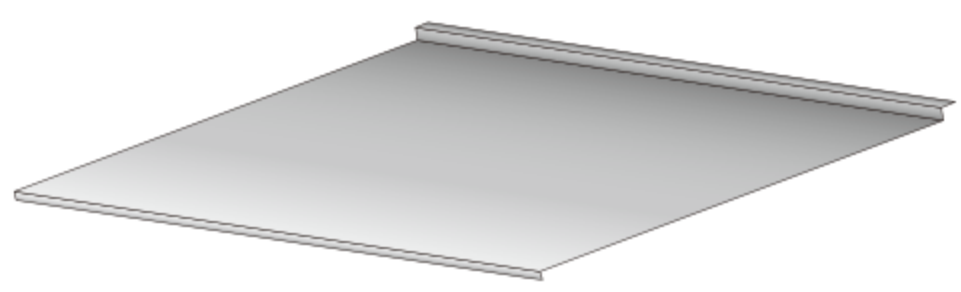




Project Name:

Date:

Description	Profil	Color	Calculations	Total
(A) ROOFGLOSShingle Plus 20 panels per square; 14-1/2" exposure stone coated		Select	Squares x 20 = Panels (10-15% Waste Factor)	
ROOFGLOSShingle Plus Panel Vent 14-1/2" exposure stone coated		Select		
(B1) Shingle Plus Hip & Ridge (1) As needed for hip, ridge & rake/gable stone coated	 14-1/2" exposure	Select	Linear Feet x 12 ÷ Exposure = Pieces	
Shingle Plus End Cap stone coated		Select	As needed for closure at hip & rake / gable with Hip & Ridge Pieces (B1)	
ROOFGLOSShingle Plus 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	
(B2) XD® Rake/Gable Channel For use along rakes/gables in place of Shingle Plus Hip & Ridge pieces stone coated	 6'6" Length	Select	Linear Feet Rake/Gable ÷ 6 = Pieces Needed (Includes 6" Overlap)	
(B3) XD® Channel For use at roof to side walls, along hips (both sides) (x2)	 6'6" Length	n/a	Linear Feet ÷ 6 = Pieces Needed (x1) for sidewalls, including skylights and chimneys (x2) for hips (Includes 6" overlap)	
ROOFGLOSShingle Plus High-Profile Debris Guard For use along rakes/gables, hips & valleys as needed	 (2) 1-1/2" W x 3/4" H x 50' L	n/a	Linear Feet Rake/Gable ÷ 50 = Rolls Needed Linear Feet Hips/Valleys ÷ 50 (2) = Rolls Needed	
(C) 3.5" Fascia Metal (Eave) Flashing stone coated	 6'6" Length	Select	Linear Feet ÷ 6.4 = Pieces (Use 6.33 on a large job)	
(D) Side Flashing Roof-to-Wall Counter Flashing stone coated	 6'6" Length	Select	Linear Feet ÷ 6.4 = Pieces (When estimating account for overlap)	
Flat Sheet 16" x 54" stone coated		Select		
Underpan Panel Width x 24" (Use with Non-Lead Pipe Jacks) aluminum-zinc alloy coated steel		n/a	1 per Roof Penetration	
XD® Valley requires Shingle Valley Cap	 6'6" Length	n/a	Linear Feet of Valley ÷ 6 = Pieces Needed (Allow for 6" Overlap)	
XD® Valley Cap stone coated	 6'6" Length	Select	= Total Linear Feet of Valley (no overlap)	
1x2 and or 2x2 Wood Battens (Non-Treated)	Stacked 2x2s / 1x2s at hips and ridges as needed	n/a		
Color Coordinated Corrosion Resistant Screws* #10 Hex (1/4" head) x 1-1/2" long	500 pc / bag 4 bags / box	Select	1 Bag Per 2 Squares**	
Touch Up Kit	Bag of stone chip & cartridge of roof sealant (Use to touch up pipe or vent penetrations, transitions, and panels)	Select		

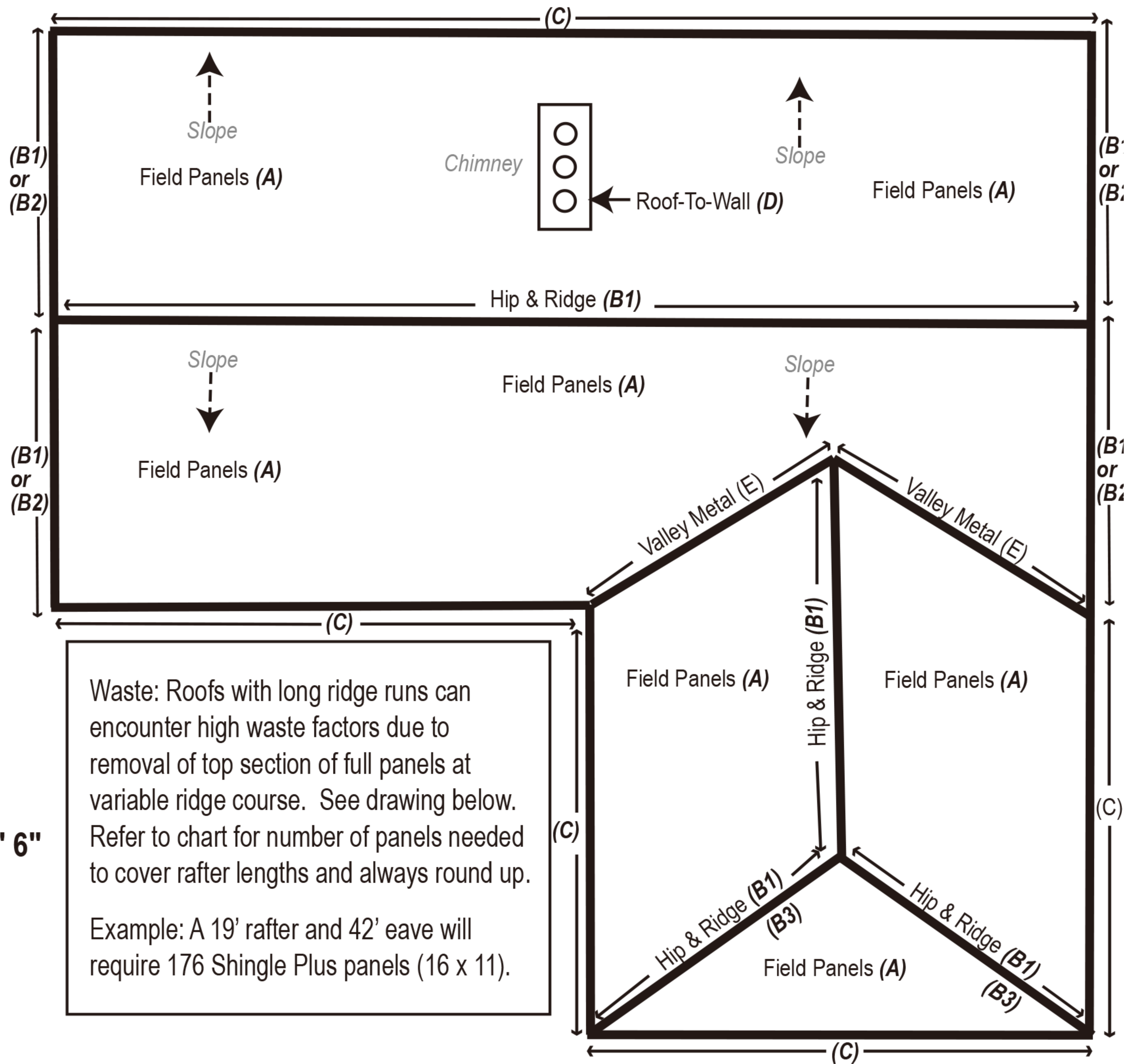
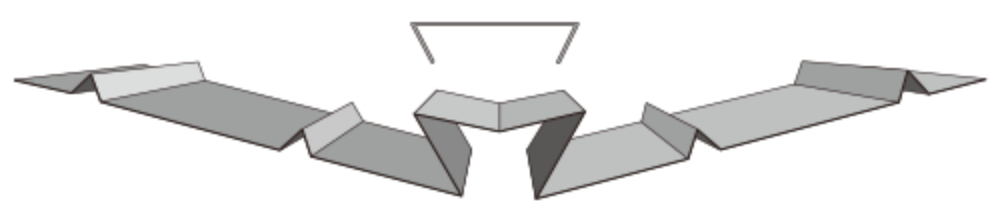
Available Colors: Classic Cobblestone, Midnight Eclipse, Natural Slate, Old Hickory, Woodland Green

*CONSULT LOCAL BUILDING CODES. **HIGH WIND AREAS REQUIRE ADDITIONAL FASTENERS. COPPER AND LEAD ACCESSORIES ARE NOT TO BE USED DUE TO DISSIMILAR METAL REACTION.
This estimate is provided in good faith and should not be assumed to reflect the exact components required to roof this plan.

- (A) Field Panels**
(8-12% waste)
Shingle Plus
20 panels per square
- (B1) Hip & Ridge (hip, ridge, rake/gable)**
Shingle Plus Hip & Ridge
14-1/2" exposure
- (B2) XD Rake/Gable (Option)**
(For use with Shingle Plus on rake/gable)
- (B3) XD Channel**
(roof-to-wall and along both sides of the hip) 6'6" Lengths
- (C) Fascia Metal (Eave) Flashing**
3.5" vertical face
- (D) Side Flashing**
4" Face, "Z" Bar counter flashing
- (E) Valley**
Valley Metal (Sourced Locally)
10' lengths
Minimum 16" total width
(For use with Shingle Plus)



XD Shingle Valley & Valley Cap 6' 6"
(For use with Shingle Plus)



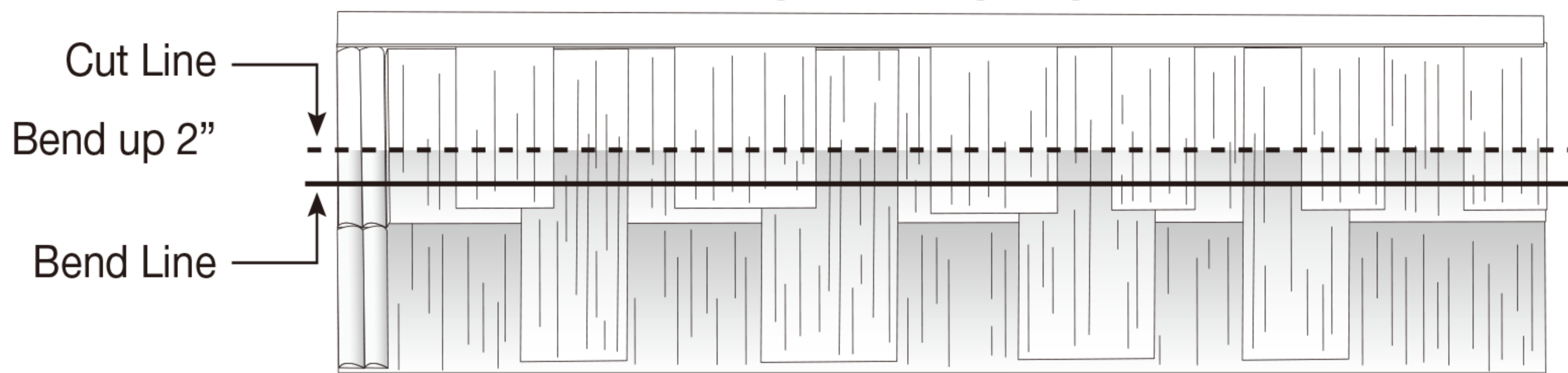
Waste: Roofs with long ridge runs can encounter high waste factors due to removal of top section of full panels at variable ridge course. See drawing below. Refer to chart for number of panels needed to cover rafter lengths and always round up.
Example: A 19' rafter and 42' eave will require 176 Shingle Plus panels (16 x 11).

Shingle Plus Panels Needed

Rafter Length		Eave Length
1' 2"	1	4' 2"
2' 4.5"	2	8' 4"
3' 7"	3	12' 6"
4' 9.5"	4	16' 8"
6'	5	20' 10"
7' 2.5"	6	25'
8' 5"	7	29' 2"
9' 7.5"	8	33' 4"
10' 10"	9	37' 6"
12'	10	41' 8"
13' 3"	11	45' 10"
14' 5.5"	12	50'
15' 8"	13	54' 2"
16' 10.5"	14	58' 4"
18'	15	62' 6"
19' 3.5"	16	66' 8"
20' 6"	17	70' 10"
21' 8.5"	18	75'
22' 11"	19	79' 2"
24' 1.5"	20	83' 4"

Use as guide only

Cutting & Bending Ridge Panels



- ✓ Tin Snips
- ✓ Tape Measure
- ✓ Local Code Requirements
- ✓ Circular Saw
- ✓ Screw Gun
- ✓ Polyurethane Sealant
- ✓ Galvanized Pipe Jacks (No Lead)
- ✓ Hand Seamer
- ✓ Battens for starter and to secure Hip & Ridge