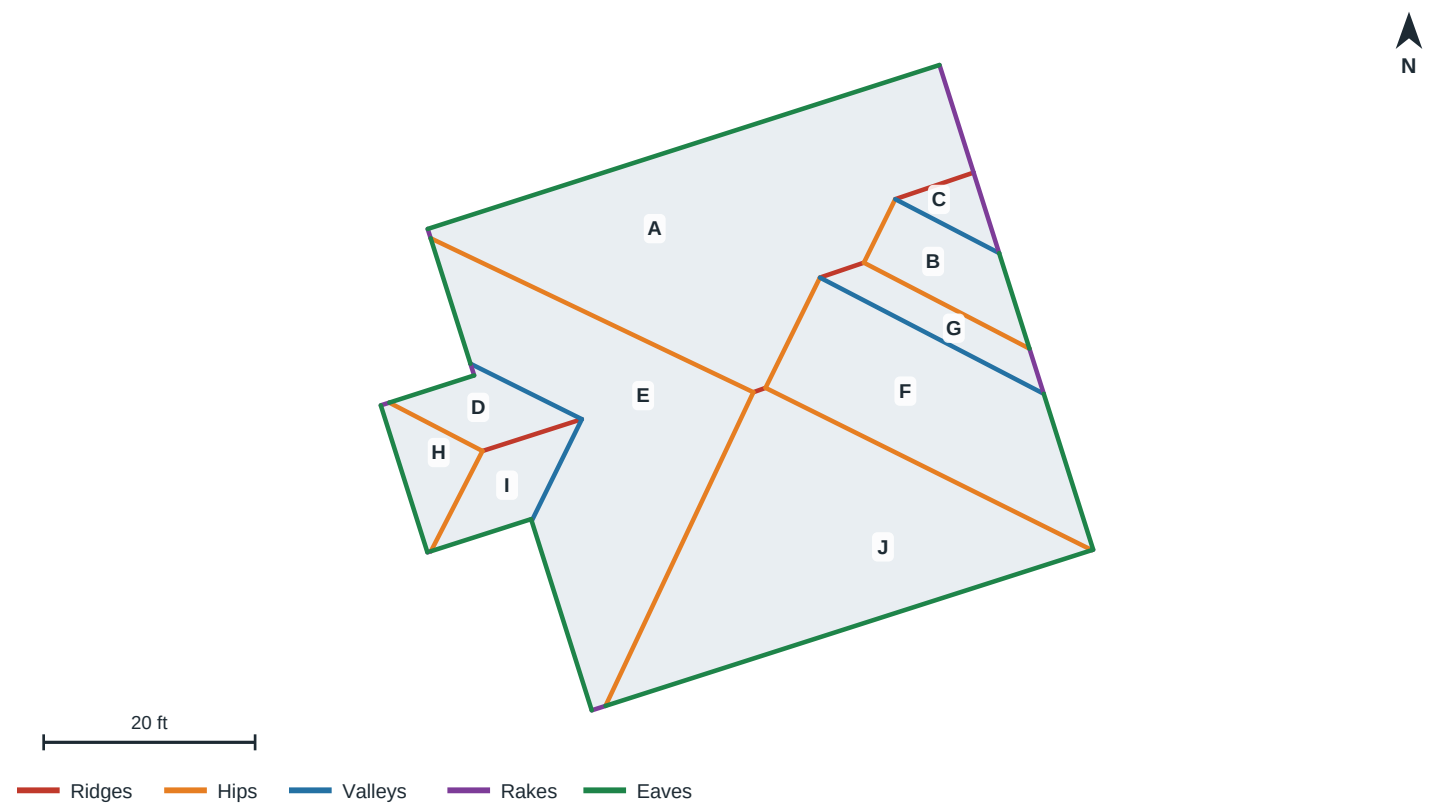


Sample home, Texas

Roof measurement report · October 25, 2026 · Report #1

Total roof area 2,850 sq ft	Roof squares 28.5	Predominant pitch 6/12	Roof facets 10
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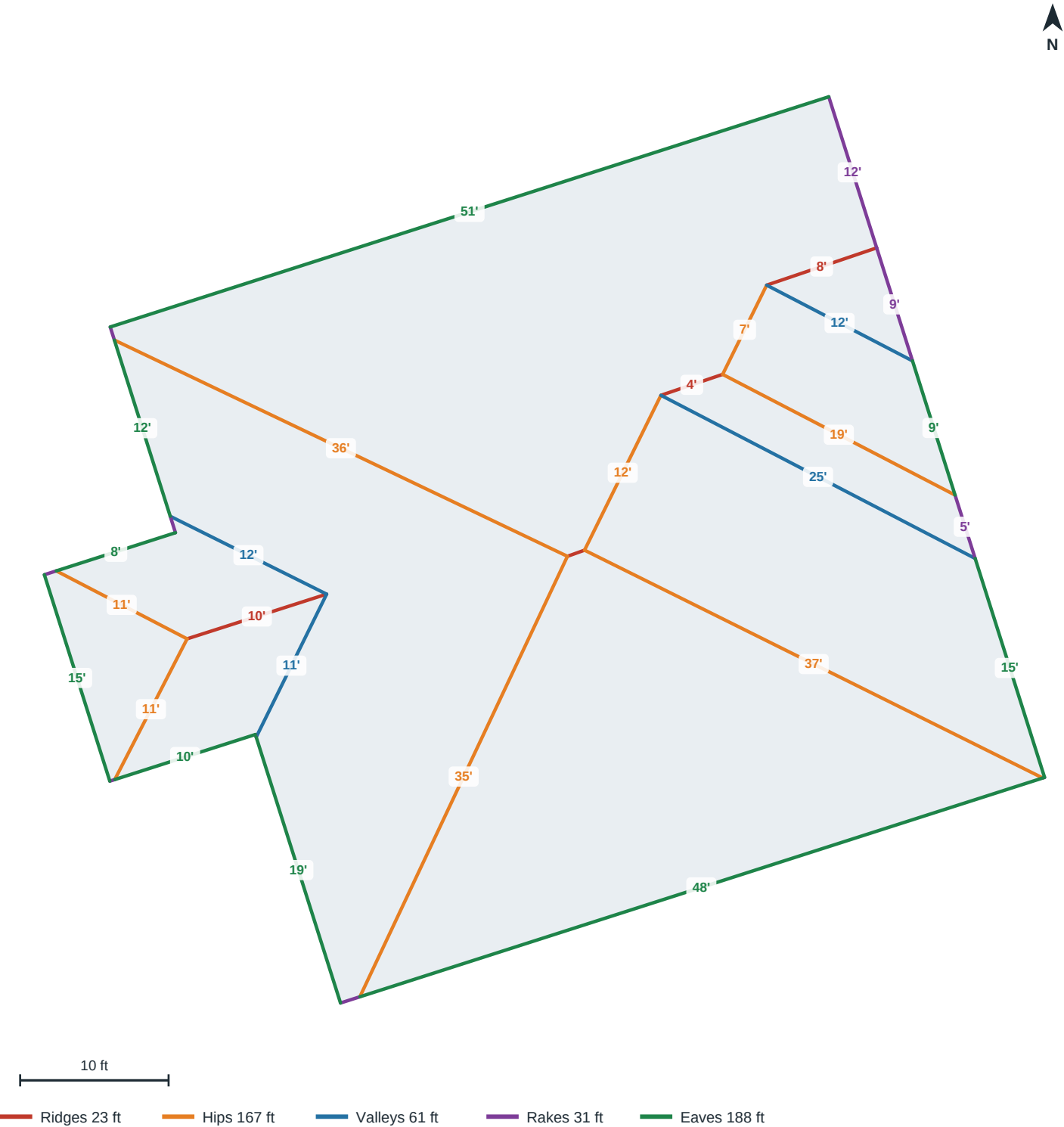


Lengths	
Ridges	23 ft
Hips	167 ft
Valleys	61 ft
Rakes	31 ft
Eaves	188 ft

Order basis	
Roof area	2,850 sq ft
Waste (suggested)	16%
Area incl. waste	3,306 sq ft
Squares to order	33.3
Drip edge (eaves + rakes)	219 ft
Ridge cap (ridges + hips)	190 ft

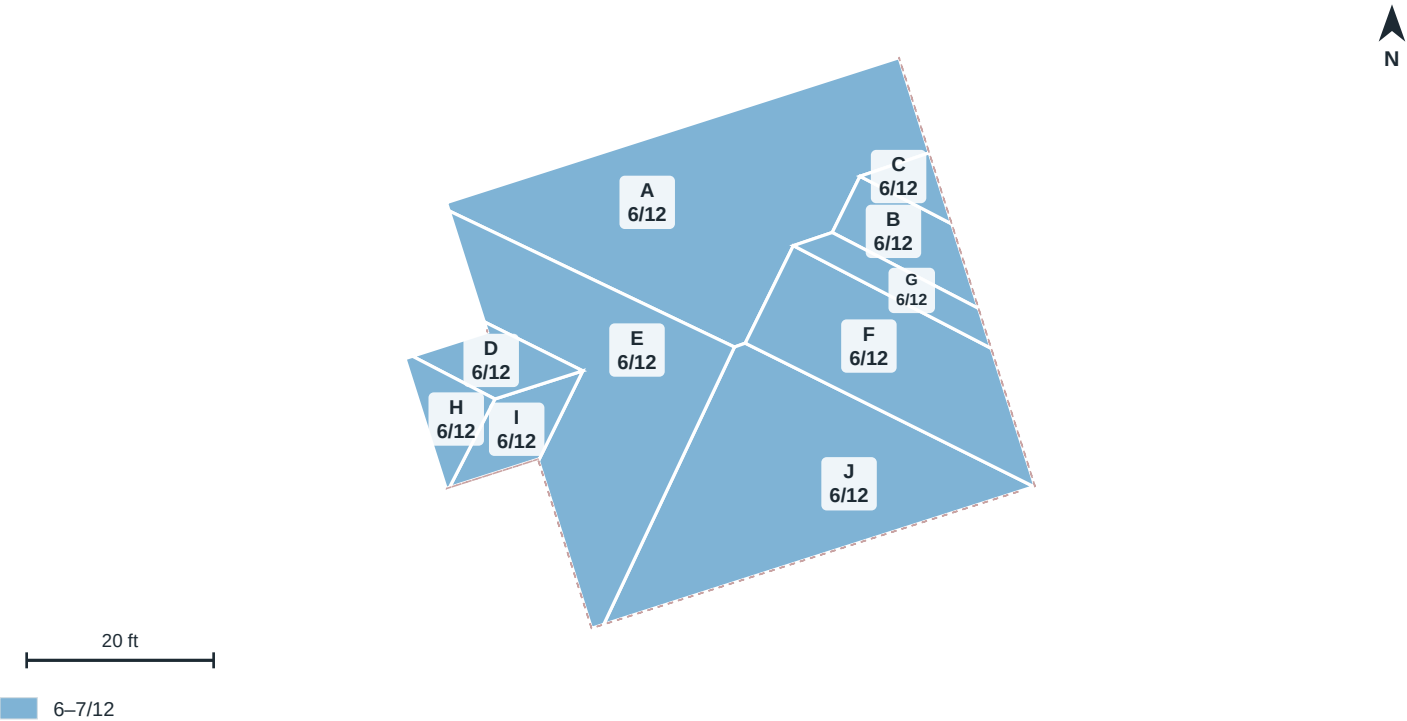
Length diagram

Edge lengths in feet, measured along the roof slope. Colours show the edge type.



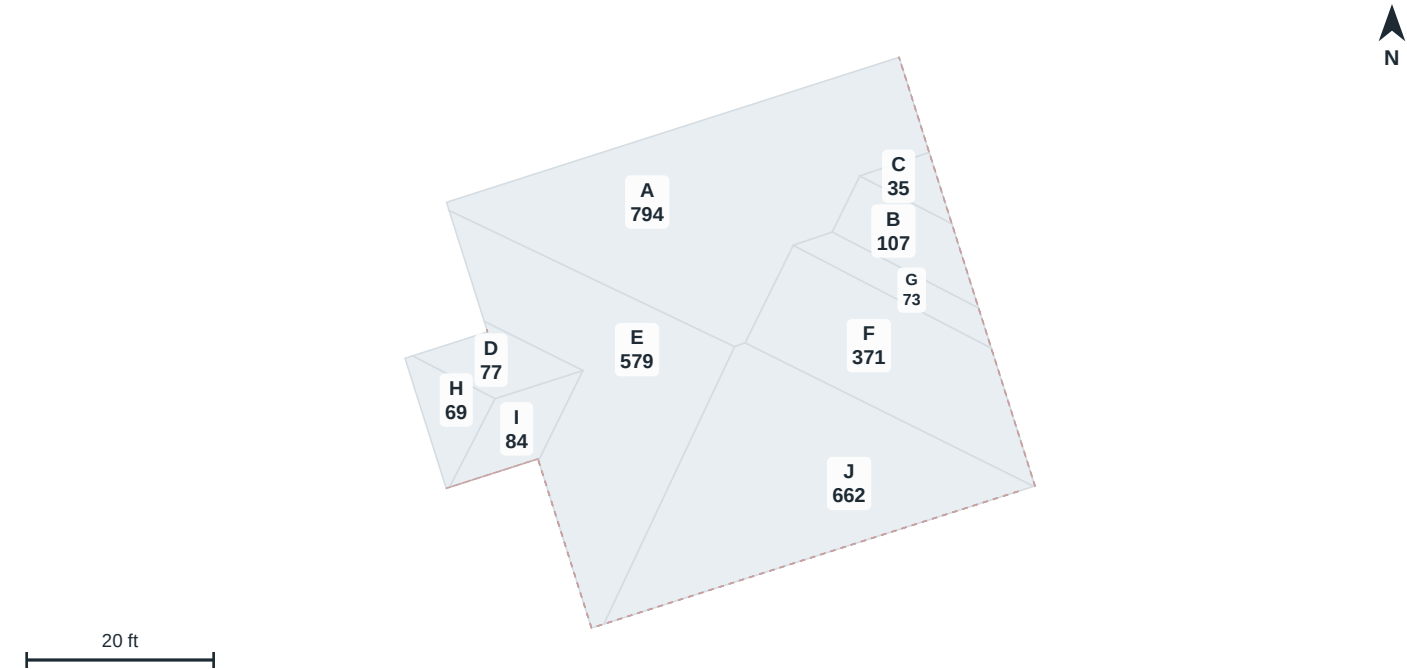
Pitch diagram

Rise in inches per 12 inches of run, per facet.



Area diagram

Roof surface area of each facet in square feet (slope-adjusted).



Facets

Facet	Pitch	Slope	Area (sq ft)	Squares	Pitch	Area (sq ft)	Share
A	6/12	26°	794	7.94	6/12	2,850	100%
B	6/12	26°	107	1.07			
C	6/12	26°	35	0.35			
D	6/12	26°	77	0.77			
E	6/12	26°	579	5.79			
F	6/12	26°	371	3.71			
G	6/12	26°	73	0.73			
H	6/12	26°	69	0.69			
I	6/12	26°	84	0.84			
J	6/12	26°	662	6.62			
Total			2,850	28.50			

Waste table

Area and squares to order for common waste allowances. Squares are rounded up to whole bundles (3 bundles per square).

Waste	0%	5%	10%	12%	15%	16% suggested	17%	20%
Area (sq ft)	2,850	2,992	3,135	3,192	3,277	3,306	3,334	3,420
Squares	28.7	30.0	31.7	32.0	33.0	33.3	33.7	34.3

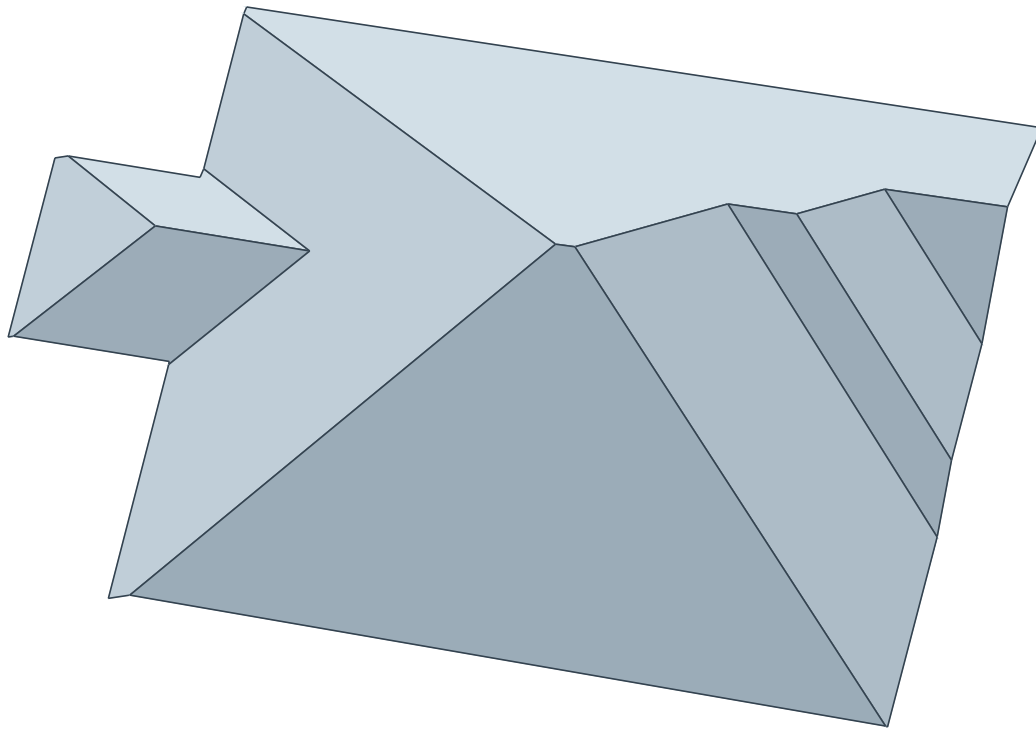
Material quantities

Order list for an asphalt shingle roof, from the measurements above and typical coverage. Field shingles include 16% waste; linear items include 10% for laps and cut-offs.

Item	Quantity	Basis
Field shingles	100 bundles	3 bundles per square
Starter strip	3 bundles	eaves + rakes 219 ft; ~100 ft per bundle
Hip & ridge cap	7 bundles	ridges + hips 190 ft; ~30 ft per bundle
Synthetic underlayment	4 rolls	10 squares per roll
Ice & water barrier	5 rolls	3 ft along eaves and valleys 249 ft; 2 squares per roll
Drip edge	25 pieces	10 ft pieces
Valley flashing	7 pieces	valleys 61 ft; 10 ft pieces
Roofing nails	83 lb	~2.5 lb per square (4 nails per shingle)

Coverage differs between manufacturers and product lines — check the wrapper of the product you order. Local code decides where ice & water barrier is required.

3D view



Walls between roof levels are drawn in beige; they are not roof surface.

About this report

- Measurements come from an aerial LiDAR survey (USGS 3DEP public EPT, 2019) of this building. Each roof facet is a plane fitted to the measured points; areas are true surface areas along the slope.
- Edge types (ridge, hip, valley, eave, rake, flashing) are identified from the roof geometry. Short edges and complex junctions should be confirmed on site.
- The survey can predate recent work on the building (additions, re-roofing, removed chimneys or skylights). Check critical dimensions before ordering and before quoting a fixed price.