Roofing Product Comparisons

| Protection / Benefits | Stone Coated Steel Panels | Architectural Shingles | Concrete & Clay Tile | Fiber Cement | Wood Shake | Synthetic Composite | Standing Seam |
|---|--|---|--|--|---|---|--|
| Weight | Lightest 1.25 - 1.5 lbs./sq.ft. Avg. Roof: 3,700 to 4,500 lbs. | 2.5 - 4 lbs./sqft Avg. Roof: 7,500 to 12,000 lbs. | 6 - 15 lbs./sq.ft. Avg. Roof: 18,000 to 45,000 lbs. | 6 lbs./sq.ft. Avg. Roof: 18,000 lbs. | 1.5 - 2 lbs./sq.ft. Avg. Roof: 4,500 to 6,000 lbs. | 2.5 - 3 lbs./sq.ft. Avg. Roof: 7,500 to 9,000 lbs. | .7 - 1.5 lbs./sq.ft. Avg. Roof: 3,750 to 4,500 |
| Fire | Class A Rated Material | Class A Rated Material | Class A Rated Material | Class A Rated Material | Class B or C no rating if untreated | Class A or C underlayment requirements | Class A Rated Material |
| Wind Warranty | 120 mph Wind Warranty | 60 - 110 mph Wind Warranty Special restrictions Warranty period may vary | Wind damage not covered | 75 mph Wind Warranty | Wind damage not covered | 70 - 110 mph Wind Warranty • Warranty period may vary | UL Tested |
| Hail Resistant Impact Resistant UL2218 | Class 4 Impact Resistant Qualifies for insurance discounts in many states Warranted against hail penetration | Class 3 or 4 Not all meet 2218 | Cracks very easily, hail can cause severe damage. | Class 4 | Class 3 or 4 | Class 4 | Class 4 |
| Snow / Ice | Freeze/Thaw Resistant | Freeze/Thaw Resistant | Not waterproof, when wet can absorb 15% of weight in water. | Freeze/Thaw Resistant | Limited Freeze/Thaw Cycles | Freeze/Thaw Resistant | Freeze/Thaw Resistant (snow guards recommended) |
| Earthquake | Lightweight + Added Shear Strength | Moderate weight with no added shear strength. | Heaviest weight with no added shear strength. | Moderate weight with no added shear strength. | Light to moderate weight with no added shear strength. | Moderate weight with no added shear strength. | N/A |
| Warranty | 50 - Year Limited Warranty | 25 - Year to Lifetime Limited Warranty | 25 - 50 Year Limited Warranty | 50 - Year Limited Warranty | 25 - 40 Year Limited Warranty | 50 - Year Limited Warranty | Coverage varies by manufacturer. |
| Environmental Impact | Low Impact Often no tear-off needed Recycled material End of life recyclability | High Impact High embodied energy in relation to life cycle Tear-off usually required Limited recycling use | High Impact High embodied energy Tear-off is required Limited recycling use | Moderate Impact Not virgin material Tear-off is required Limited recycling use | Moderate Impact Low embodied energy Renewable resource Tear-off required End of life recyclability | Moderate to High Impact Limited information Only on market 12 years Some made of recycled rubber & TPO Tear-off required Not all are recyclable | Low Impact Often no tear-off needed Recycled material End of life recyclability |
| Required Maintenance | Low | Low | Moderate to High (broken tiles) | Moderate to High (broken tiles) | High (fire resistence maintenance required) | Moderate (replacement for breakage and curling) | Moderate to High (if repainting required) |
| Life Cycle Costs | Low Life Cycle Costs Long Use Cycle Lifespan is 2 - 3 times longer than other roofing products | High Costs Lifespan is approx. 20 years | High Costs Lifespan is 20 - 50 years | High Costs Lifespan is 25 - 40 years | High Costs Lifespan is 20 - 30 years | High Costs Lifespan is unproven, expect 50 years | Low Life Cycle Cost • Long Use Cycle • Lifespan is 2 - 3 times lon ger than other roofing produc |

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