

Protection / Benefits	Stone Coated Steel	Concrete & Clay Tile	Architectural Asphalt Shingles	Aluminum	Wood Shake	Synthetic Composite
Weight	1.25 - 1.5 lbs/sqft	6 -15 lbs/sqft	3 – 4 lbs/sqft	.50 - .70 lbs/sqft	1.5 – 2 lbs/sqft	2.5 – 3 lbs/sqft
Fire Class A, B or C	Class A Material	Class A Material	Class A Material fiberglass mat	Class A Material	Class A, B or C treated & underlayment specific	Class A or C underlayment requirements
Wind Warranty	120 mph warranty	Wind damage not covered	60 to 110 mph special restrictions	110 to 120 mph warranty	Wind damage not covered	70 to 110 mph not always covered
Impact (Hail) Resistant UL2218	Class 4 (Qualify for HO insurance discount)	Class 3 or 4 (Not all products) (Not listed for HO insurance discount)	Class 3 or 4 (Not all qualify for HO insurance discount)	Class 4	Class 3 or 4 (Not all qualify for HO insurance discount)	Class 3 or 4 (must specify) (Not all qualify for HO insurance discount)
Snow / Ice	Freeze/Thaw resistant	Not waterproof (can absorb up to 15% of weight in water)	Limited freeze/thaw resistance	Freeze/Thaw resistant	Limited freeze/thaw cycles	Freeze/Thaw resistant
Warranty	Commercial 50 Year limited / Residential Lifetime Limited	25 to 50 Year limited warranty	25 to 50 Year limited warranty Restrictions apply	40 year to Lifetime limited warranty	25 to 40 Year limited warranty	50 Year to Lifetime (fee) limited warranty
Environmental						
Energy Efficient	Yes	Yes	Limited special color or installation required	Yes	Limited	Limited Info
Recycled Content	Upwards of 25% post consumer	Possible in fly ash or cement	Petroleum	Upwards of 75% post-consumer	N/A	Some plastics or rubber (varies)
Recyclability	100%	Depends – shortage of facilities	Depends – shortage of facilities	100%	100% - compost	Depends on plastic / rubber used
Cost of Ownership	Low	Higher than metal products	Higher than all products listed	Low	Medium	Higher than metal products
Water Conservation / Run-off	Meets WHO standards for drinking water (testing); run-off will not harm groundwater	Run-off will not harm groundwater	Petroleum product; non-potable water run-off; can harm groundwater	Potable water; run-off will not harm groundwater	Can leach heavy metals into water; non-potable water run-off; can harm groundwater	Unsure
Life Cycle	Long use cycle coating and substrate	Long use cycle depending on material	Low use cycle	Long use cycle substrate	Medium use cycle	Expect long use cycle based on aged testing
Embodied Energy	Low in relation to life cycle	High in relation to life cycle	High in relation to life cycle	Low in relation to life cycle	Low	Limited information