

COMPARISON	ASPHALT BUILT UP ROOFING	SBS MODIFIED BITUMEN	TPO/ PVC	EPDM	INVERTED OR PROTECTED MEMBRANE
#PLIES	4 or 5	2	1	1	2,4,5
Overall membrane thickness	13mm or more	7mm	1.5 mm	1.5mm	7mm
Weight of roof membrane & ballast (per square foot)	7 lbs	1.75 lbs	.25lbs	0.37 kg without ballast or 11.37 kg with ballast	12.7 lbs
Weight of roof membrane & ballast (per square foot)	34.17 kg	8.5 kg	1.22 kg	1.81 kg without ballast or 55.51 kg with ballast	62 kg
Ballasted system	Yes	No	No	Possible	Yes
Benefit- Membrane UV resistant	Yes, when covered by asphalt and ballast	Yes, with granular cap sheet	Some concerns exist	Yes	Yes
Benefit-forgiving assembly due to higher number of membrane plies and thicker overall membrane (1 highest-5 lowest)	2	2	4	4	1
Benefit-long live expectancy with proper maintenance (1 highest-5 lowest)	2	2	4	5	1
Benefit-allow for cold weather application	Yes	No	Yes	No	Application of ballast is difficult
Benefit-all plies solidly attached	Yes	Yes	No, unless fully adhered	No, unless fully adhered	Yes
Benefit-allows for inexpensive overlay	No	Yes	Yes	Yes, harder with ballast	No
Concern due to open flame	Yes	Yes, possible workaround	No	No	Yes, possible workaround
Concern due to odour	Yes	Depends on system selection	No	No	Depends on system selection