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SAM³/SUPER SAM 125 MEMBRANE PERFORMANCE COMPARISONS

Lab Results for ASTM E492-90/E989-89 (IIC) & ASTM E90-02 (STC)

	IIC/STC NO SRCA REQUIRED	IIC/STC WITH SRCA (EXCEPT WHERE NOTED)	APPLICATION	WATERPROOF	MOLD/MILDEW RESISTANT	CRACK ISOLATION	WARRANTY
SAM³ NAC Products 70 mil = Approx. 1/8"	No Lab Data	IIC = 58** STC = 54**	Self-Adhering Sheet Applied Membrane	Yes	Yes	3/8" Crack Suppression; 3/8" Lateral Movement Capability	Lifetime with any A118.4 Mortar
Super SAM 125 NAC Products 125 mil = Approx. 1/10"	IIC = 51*** & 52**** STC = 55*** & 54**** Δ (Delta) = 23****	No Lab Data	Peel & Stick Sheet	Yes	Yes	3/8" Crack Suppression; 3/8" Lateral Movement Capability	Lifetime with any A118.4 Mortar
SoundGard Custom Building Products 3mm = Approx. 1/8"	Not Stated	IIC = 48 ▪ STC = ?	Peel & Stick Sheet	Yes	Yes	1/4" Crack Suppression	Lifetime (requires use of complete system)
SoundGard Custom Building Products 5mm = Approx. 3/16"	Not Stated	IIC = 52 ▪ STC = ?	Peel & Stick Sheet	Not Stated	Yes	1/4" Crack Suppression	Lifetime (requires use of complete system)
SoundGard Custom Building Products 12mm = Approx. 1/2"	Not Stated	IIC = 55 ▪ STC = 73	Peel & Stick Sheet	Yes	Yes	1/4" Crack Suppression	Lifetime (requires use of complete system)
SIS-Dal-Sound NobleSeal 3/64"	Not Stated	IIC = 62 ▪ STC = 59	Thin-Set Mortar Bond	Yes	Not Stated	Not Stated	Lifetime Material Warranty
CISM Proflex 40 mil 3/64"	IIC = 42 STC = 57	IIC = 54 ▪ STC = 64	Peel & Stick Sheet	Not Stated	Not Stated	3/8" Crack Suppression	10 Year
SSC Proflex 70 mil = Approx. 1/8"	IIC = 43 STC = 59	IIC = 54 ▪ STC = 66 (5/8" Gyp Ceiling w/3.5" Fiberglass Batting)	Peel & Stick Sheet	Not Stated	Not Stated	3/8" Crack Suppression	10 Year
MSC Proflex 90 mil = Approx. 3/16"	No Lab Data	IIC = 68 ▪ STC = 72 (5/8" Gyp Ceiling w/3.5" Fiberglass Batting)	Peel & Stick Sheet	Not Stated	Not Stated	3/8" Crack Suppression	10 Year
Mapelastic Mapei 40 mil = 3/64"	No Lab Data	IIC = 67 (2 Gyp Ceiling w/3.5" Fiberglass Batting)	Peel & Stick Sheet	Not Stated	Not Stated	1/4" Crack Suppression	Lifetime (requires use of complete system)
Protectowrap Protectowrap 40 mil = 3/64"	No Lab Data	IIC = 67 (2 Gyp Ceiling w/3.5" Fiberglass Batting)	Peel & Stick Sheet	Not Stated	Not Stated	1/4" Crack Suppression	Lifetime (requires use of complete system)
AcoustiCORK Amorim Approx. 1/4"	No Lab Data	IIC = 61 ▪ STC = 60 (Set on 15# roofing felt w/5/8" Gyp Ceiling)	Glue Down	No	Not Stated	Not Stated	Limited 10 Year Product Warranty
AcoustiCORK Amorim Approx. 1/2"	IIC = 50 STC = 56 (Set on 15# roofing felt over 6" concrete slab)	No Lab Data	Glue Down	No	Not Stated	Not Stated	Limited 10 Year Product Warranty

Comparison Chart compiled from information as reported on respective Manufacturers' website and/or product literature.

** Performed on 6" (152 mm) concrete slab with ceiling assembly

*** Performed on 8" (203 mm) concrete slab; no ceiling assembly

**** Performed on 6" (152 mm) concrete with Homasote; no ceiling assembly

ASTM E492 (Impact Insulation Class/IIC): Standard test method for laboratory measurement of Impact Sound Transmission through floor-ceiling assemblies using the tapping machine.

ASTM E90 (Sound Transmission Class/STC): Test method for laboratory measurement of airborne sound transmission loss of building partitions and elements. STC is a single-number rating of a material's or an assembly's ability to resist airborne sound transfer at the frequencies 125-4000 Hz. In general, a higher STC rating blocks more noise from transmitting through a partition.