



INTERTEK TESTING SERVICES NA LTD

SOUND RATINGS (3018542) \* STC : 53 \* IIC : 50



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**TOPPING**

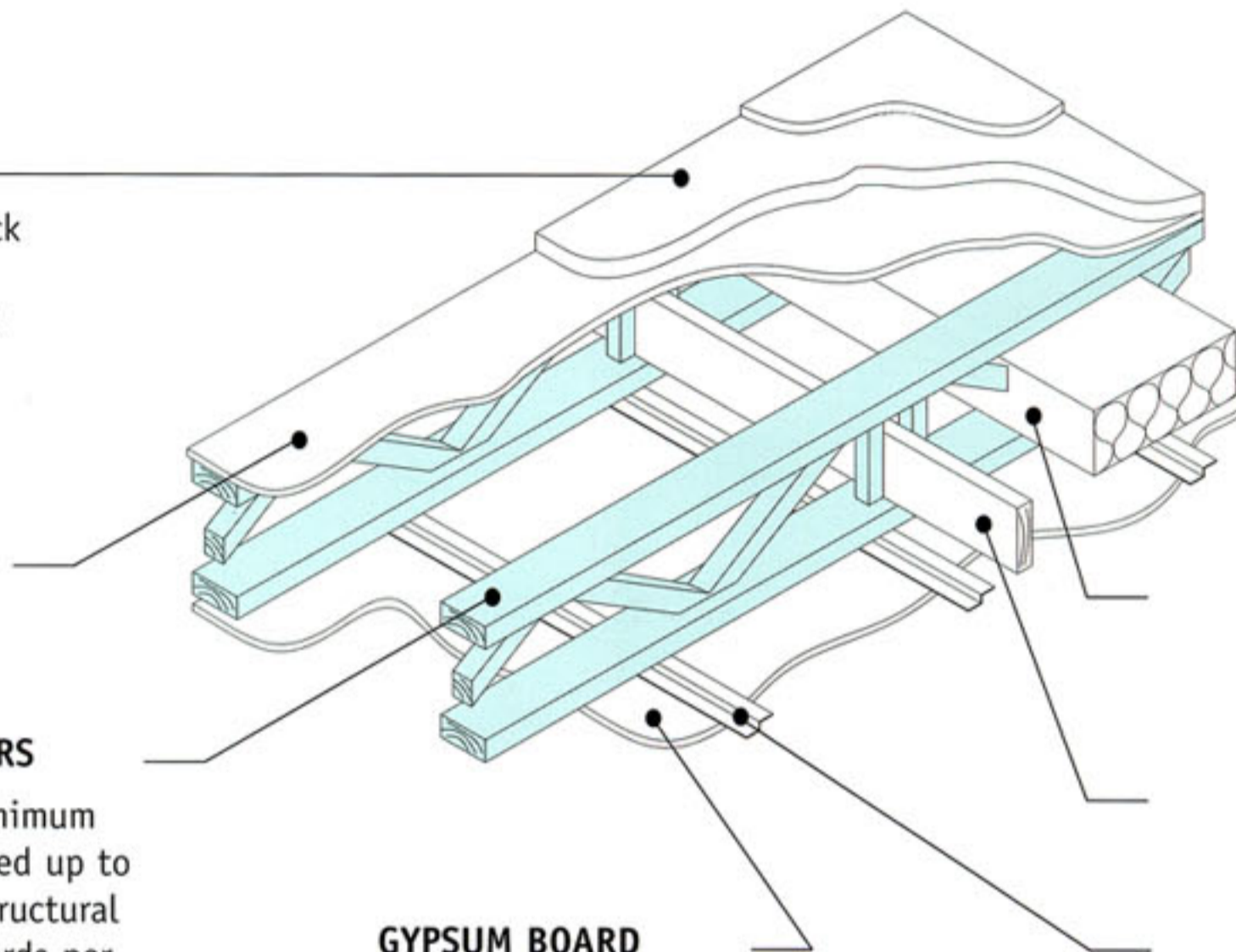
Gypcrete 3/4 inch thick (density 15 PSF) Or equivalent, covered with Armstrong Starstep vinyl flooring or equivalent.

**SUB FLOORING**

Minimum 5/8 T&G sheathing.

**STRUCTURAL MEMBERS**

Open Joist 2000®, minimum depth 11 7/8", installed up to 24" on center, with structural graded 3x2 or 4x2 chords per NLGA grading rules for Canadian Lumber or graded by an inspection bureau or agency approved by the United States Department of Commerce Board of Review of the American Lumber Standards Committee. Structural members should bear the WHI certification mark.



**GYPSUM BOARD**

1 layer of 5/8" Type X. Long edges located between joists perpendicular to the resilient channels. Short edges are staggered by 4 feet. Sheets are fastened to the resilient channels by means of 1 1/2" Type S screws located 1 1/2" away from the edge and 3" from the long edges. Screws are spaced 6" on centre. Joints are taped and finished with 2 layers of compound.

**INSULATION**

Insulation material is of a density of 1.6 pcf.

**BRIDGING**

Bridging is optional.

**RESILIENT CHANNEL**

Galvanized steel 24 gauge spaced 16" on centre and attached to the bottom chord by means of 2 Type W screws. Channels overlap on 10" at the end and are attached to each other with a 1 1/4" Type S screw.

Results obtained have been performed by Intertek Testing Services and are in accordance with ASTM E90-90, ASTM E492 and classified in accordance with ASTM E413-87.

**\* Acoustical Characteristics Table**

Depth	Insulation	Gypcrete	Carpet	Vinyl	STC	IIC
9 3/8"	Yes	No	No	No	42	38
9 3/8"	Yes	No	Yes	No	42	66
9 3/8"	Yes	No	No	Yes	42	44
9 3/8"	Yes	Yes	No	No	44	42
9 3/8"	Yes	Yes	Yes	No	44	70
9 3/8"	Yes	Yes	No	Yes	44	50
9 3/8"	No	No	No	No	41	35
9 3/8"	No	No	Yes	No	41	63
9 3/8"	No	No	No	Yes	41	41
9 3/8"	No	Yes	No	No	44	32
9 3/8"	No	Yes	Yes	No	44	60
9 3/8"	No	Yes	No	Yes	44	38
11 7/8"	Yes	No	No	No	46	39
11 7/8"	Yes	No	Yes	No	46	67
11 7/8"	Yes	No	No	Yes	46	45
11 7/8"	Yes	Yes	No	No	53	44
11 7/8"	Yes	Yes	Yes	No	53	72
11 7/8"	Yes	Yes	No	Yes	53	50
11 7/8"	No	No	No	No	46	30
11 7/8"	No	No	Yes	No	46	65
11 7/8"	No	No	No	Yes	46	43
11 7/8"	No	Yes	No	No	52	37
11 7/8"	No	Yes	Yes	No	52	67
11 7/8"	No	Yes	No	Yes	52	43

Depth	Insulation	Gypcrete	Carpet	Vinyl	STC	IIC
13"	Yes	No	No	No	47	40
13"	Yes	No	Yes	No	47	68
13"	Yes	No	No	Yes	47	46
13"	Yes	Yes	No	No	53	44
13"	Yes	Yes	Yes	No	53	72
13"	Yes	Yes	No	Yes	53	50
13"	No	No	No	No	46	30
13"	No	No	Yes	No	46	65
13"	No	No	No	Yes	46	43
13"	No	Yes	No	No	52	37
13"	No	Yes	Yes	No	52	67
13"	No	Yes	No	Yes	52	43
16"	Yes	No	No	No	48	41
16"	Yes	No	Yes	No	48	69
16"	Yes	No	No	Yes	48	47
16"	Yes	Yes	No	No	53	45
16"	Yes	Yes	Yes	No	53	73
16"	Yes	Yes	No	Yes	53	51
16"	No	No	No	No	47	31
16"	No	No	Yes	No	47	65
16"	No	No	No	Yes	47	43
16"	No	Yes	No	No	53	38
16"	No	Yes	Yes	No	53	68
16"	No	Yes	No	Yes	53	44

Note: The values in *italic* are estimated and represent the minimum expected value obtained through laboratory testing.