

SOPRA-CELLULOSE AB



INSULATION
SOUNDPROOFING

APPLICATIONS

WALLS

INDOOR APPLICATIONS

TECHNICAL DATA SHEET 190524SCANE

(supersedes 180530SCANE)

DESCRIPTION

SOPRA-CELLULOSE AB is an all borate-treated blow-in insulation made of 85% post-consumer recycled newspaper. It consists of loose small gray fibers, smooth to touch. SOPRA-CELLULOSE AB is also odorless and has a low VOC content. It acts as a protective shield to reduce the transmission of heat and sound. Efficient and environmental-friendly, SOPRA-CELLULOSE AB will reduce energy consumption and improve indoor comfort for a wide range of climatic conditions.

INSTALLATION

BLOWN (ATTIC)

SOPRA-CELLULOSE AB is an excellent insulation for attics of new homes and can also be applied over existing batt insulation as additional insulation. This product must be blown with special equipment to a minimum density of 1.5 lb/ft³ and can also be hand-poured in restricted spaces.

CAUTION

Potential Fire Hazard: Keep cellulose insulation at least three inches away from the sides of recessed light fixtures. Do not place insulation over such fixtures so as to entrap heat. Also keep this insulation away from exhaust flues of furnaces, water heaters, space heaters, or other heat-producing devices. To be sure that insulation is kept away from light fixtures and flues, use a barrier to permanently maintain clearance around these areas. Check with local building or fire officials for guidance on installation and barrier requirements.

INJECTED (WALL AND FLOOR)

This system uses a retaint membrane that is secured to the studs with SOPRA-CELLULOSE STRIP and staples. Openings are then made to inject dry SOPRA-CELLULOSE AB with mandatory nozzle (for dense packed wall system) preapproved by SOPREMA.

For wall injection, SOPRA-CELLULOSE AB must be injected to a minimum density of 3.5 lb/ft³ for wall thickness up to 6 inches, and to a minimum density of 4 lb/ft³ for walls thickness greater than 6 inches.

For ceiling and floor injection, SOPRA-CELLULOSE must be injected at a density of 1.8 lb/ft³ to 3.0 lb/ft³.

Service temperature: < 90 °C (< 194 °F)



SOPRA-CELLULOSE AB meets GREENGUARD GOLD certification.

FOR COMPLETE INFORMATION ON PRODUCT INSTALLATION, PLEASE CONSULT YOUR SOPREMA REPRESENTATIVE.

PACKAGING

SPECIFICATIONS	SOPRA-CELLULOSE AB
Color	Gray
Density:	
Attics:	1.5 lb/ft ³
Walls:	
Wall thickness up to 6 inches:	3.5 lb/ft ³
Wall thickness greater than 6 inches:	4.0 lb/ft ³
Floors:	1.8 lb/ft ³ to 3.0 lb/ft ³
Packaging	25 lb Bag



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INSTALLATION CHART (ATTIC)

THERMAL RESISTANCE R	INSTALLED THICKNESS in	SETTLED THICKNESS in	MASS PER UNIT AREA lb/ft ²	COVERAGE PER BAG ft ²	MINIMUM BAGS PER UNIT AREA 1000 ft ²
13	4.0	3.6	0.5	54.5	18
19	6.0	5.3	0.7	36.9	27
22	6.9	6.1	0.8	32.1	31
30	9.3	8.3	1.1	23.6	42
38	11.8	10.5	1.4	18.7	54
49	15.1	13.5	1.7	14.6	69
50	15.5	13.8	1.8	14.2	70
61	19.0	16.9	2.2	11.6	86

Settled density 1.5 lb/ft³.

The R-value presented in this chart is measured after settlement, according to ASTM C518 standard and ASTM C687 conditioning method. This chart indicates the minimum number of bags to use. The final result will vary according to the application technique, the equipment and the hose used. From RSI-7.0 or R-40, it may be necessary to make an adjustment according to the application technique. For the most up-to-date information, please refer to our website at www.soprema.ca or your SOPREMA representative.

INSTALLATION CHART (WALL)

STRUCTURE	STRUCTURE DIMENSION in	THERMAL RESISTANCE R	MASS PER UNIT AREA lb/ft ²	COVERAGE PER BAG ft ²	Minimum bags per unit 1000 ft ²
WOOD	2 x 4 *	14.8	1.05	23.8	42
	2 x 6 *	22.2	1.58	15.9	63
	2 x 8 **	28.7	2.33	10.8	93
METAL	2 x 4*	16.7	1.31	19.1	53
	2 x 6*	24.1	1.90	13.2	76
	2 x 8**	31.5	2.83	8.8	113

* Minimum installed density of 3.5 lb/ft³ for walls with structures of 2 x 6 inches and less.

** Minimum installed density of 4 lb/ft³ for walls with structures greater than 2 x 6 inches.

This chart indicates the minimum number of bags to use. The final result will vary according to the application technique, the equipment and the hose used. For the most up-to-date information, please refer to our website at www.soprema.ca or your SOPREMA representative.



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PROPERTIES

PROPERTIES	STANDARDS	SOPRA-CELLULOSE AB
Thermal resistance	ASTM C518	R = 3.7 per inch
Surface combustion	ASTM E970	Min. 0.12 W/cm ²
Flame spread index	ASTM E84	Class A
Smoke developed index	ASTM E84	0-30
Smoldering resistance	ASTM C739	Max. 15 % of mass loss
Moisture vapour sorption	ASTM C739	Less than 20 % in mass gain
Corrosiveness	ASTM C739 ASTM G1-90	Exposed @ 120°F for 28 days - No perforation # 3003 bare aluminum, soft temper - No perforation # 110 CABRA type ETP, soft copper - No perforation Cold-rolled low carbon steel, commercial quality - No perforation
Fungi resistance - in a culture medium containing fungous spores (95% RH and 82 °C) after 28 days	ASTM C1338	No growth

Meets standards ASTM C739, 16 CFR Part 1209 , 16 CFR Part 1404, and UL # 2818 Standard for Chemical Emissions for Building Materials, Finishes and Furnishings.

STORAGE AND HANDLING

Bags must be stored indoor, in a dry area in their original packaging. On a work site, store in their original, non-perforated packaging and cover the bags with an opaque protective tarp.



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