

# SOPRA-CELLULOSE INSULATION

TECHNICAL DATA SHEET 170720SCANE

(supersedes 170711SCANE)



INSULATION  
SOUNDPROOFING

APPLICATIONS

WALLS

INDOOR APPLICATIONS

## DESCRIPTION

**SOPRA-CELLULOSE** insulation is made of 85% post-consumer recycled newspaper. It consists of loose small grey fibers, smooth to touch. **SOPRA-CELLULOSE** is also odourless and has low VOC content.

It acts as a protective shield to reduce the transmission of heat and sound. Efficient and environmental-friendly, **SOPRA-CELLULOSE** will reduce energy consumption and improve comfort for a wide range of climatic conditions.

## INSTALLATION

### BLOWN (ATTIC)

**SOPRA-CELLULOSE** is often applied over existing batt insulation in attics as additional insulation to fill the voids. It is also an excellent insulation for attics of new homes. This product must be blown with special equipment to a minimum density of 24.5 kg/m<sup>3</sup> (1.5 lb/ft<sup>3</sup>) and can be applied manually in restricted spaces.

### INJECTED (WALL AND FLOOR)

This system uses a retaining membrane that is secured to the studs with a dual sided tape or **SOPRA-CELLULOSE STRIP** with fasteners and furring. Openings are then made to inject dry **SOPRA-CELLULOSE** with mandatory X-Floc nozzle (dense pack system). Material must be injected to a minimum density of 48 kg/m<sup>3</sup> (3.0 lb/ft<sup>3</sup>) for walls and 28.8 kg/m<sup>3</sup> (1.8 lb/ft<sup>3</sup>) to 48 kg/m<sup>3</sup> (3.0 lb/ft<sup>3</sup>) for floors.

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

**SOPRA-CELLULOSE** meets GREENGUARD GOLD certification.



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

## PACKAGING

Specifications	SOPRA-CELLULOSE
Colour	Grey
Density:	
Attics	24.5 kg/m <sup>3</sup> (1.5 lb/ft <sup>3</sup> )
Walls	48 kg/m <sup>3</sup> (3.0 lb/ft <sup>3</sup> )
Floors	28.8 kg/m <sup>3</sup> (1.8 lb/ft <sup>3</sup> ) to 48 kg/m <sup>3</sup> (3.0 lb/ft <sup>3</sup> )
Packaging	11.3 kg (25 lb) Bag



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NOTE : SOPREMA INC. may modify the composition and/or utilization of its products without prior notice.

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## INSTALLATION CHART (ATTIC)

THERMAL RESISTANCE RSI (R)	APPLIED THICKNESS mm (in)	SETTLED THICKNESS mm (in)	MASS PER UNIT AREA kg/m <sup>2</sup> (lb/ft <sup>2</sup> )	COVERAGE PER BAG m <sup>2</sup> (ft <sup>2</sup> )
2.1 (12)	94 (3.7)	84 (3.3)	2.0 (0.4)	5.5 (59.7)
2.3 (13)	103 (4.0)	92 (3.6)	2.2 (0.5)	5.1 (54.5)
3.4 (19)	152 (6.0)	135 (5.3)	3.3 (0.7)	3.4 (36.9)
3.5 (20)	156 (6.1)	139 (5.5)	3.4 (0.7)	3.3 (35.8)
3.9 (22)	174 (6.9)	155 (6.1)	3.8 (0.8)	3.0 (32.1)
5.3 (30)	237 (9.3)	211 (8.3)	5.2 (1.06)	2.2 (23.6)
5.6 (32)	250 (9.8)	223 (8.8)	5.5 (1.1)	2.1 (22.4)
6.7 (38)	299 (11.8)	267 (10.5)	6.5 (1.34)	1.74 (18.7)
7.0 (40)	312 (12.3)	279 (11.0)	6.8 (1.4)	1.7 (17.9)
8.6 (49)	384 (15.1)	343 (13.5)	8.4 (1.7)	1.4 (14.6)
8.8 (50)	393 (15.5)	351 (13.8)	8.6 (1.8)	1.3 (14.2)
10.8 (61)	482 (19.0)	430 (16.9)	10.5 (2.2)	1.1 (11.6)

Settled density 1.5 lb per cubic foot - 24.5 kg per cubic meter

This chart indicates the minimum number of bags to use and does not account for any losses. An overall loss rate of 10 % should be added. The final result will vary according to the application technique, the equipment and the hose used. From R-40 or RSI-7.0, 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](http://www.soprema.ca).

## INSTALLATION CHART (WALL)

WOOD STRUCTURE mm (in)	THERMAL RESISTANCE RSI (R)	MASS PER UNIT AREA kg/m <sup>2</sup> (lb/ft <sup>2</sup> )	COVERAGE PER BAG m <sup>2</sup> (ft <sup>2</sup> )
38 x 89 (2 x 4)	2.3 (14)	4.3 (0.9)	2.7 (29)
38 x 140 (2 x 6)	3.6 (21)	6.7 (1.4)	1.7 (18)

Settled density 3 lb per cubic foot - 48 kg per cubic meter

This chart indicates the minimum number of bags to use and does not account for any losses. An overall loss rate of 10 % should be added. 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](http://www.soprema.ca).



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## PROPERTIES

Properties	Standards	SOPRA-CELLULOSE
Thermal resistance	CAN / ULC-S703	Blown (attic) RSI = 0.65 per 25.4 mm (R = 3.7 per inch)
Flame spread rating	CAN / ULC-S102.2	< 150 (Class A)
Flame spread rating	CAN / ULC-S102	< 25 (Class A)
Open-flammability	CAN / ULC-S703	min. 0.12 w/cm <sup>2</sup>
Open-flammability permanency	CAN / ULC-S703	min. 0.12 w/cm <sup>2</sup>
Resistance to combustion without flame - mass loss after being exposed to a high temperature	CAN / ULC-S703 CAN / ULC-S130	max. 15 %
Moisture vapour sorption	CAN / ULC-S703 ASTM C739	less than 20 %
Corrosivity	CAN / ULC-S703 ASTM G1-90	Exposed @ 50 °C 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
Mold resistance - in a culture medium containing fungous spores (95 % RH and 28 °C) after 28 days	CAN / ULC-S703 ASTM C1338	No mold
Separation of chemicals - after agitating at 275 cycles/min for 30 minutes	CAN / ULC-S703	less than 1.5 %

For CCMC product evaluation see CCMC Evaluation listing # 09232-L ventilated attic  
UL # 2818 Standard for Chemical Emissions for Building Materials, Finishes and Furnishings.

## STORAGE AND HANDLING

Bags must be stored indoor, in their original packaging. On job site, cover them with an opaque protective cover.



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