

# SOPRA-CELLULOSE



INSULATION  
SOUNDPROOFING

APPLICATIONS

WALLS

INDOOR APPLICATIONS

TECHNICAL DATA SHEET 180530SCANE

(supersedes 171204SCANE)

## 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 a 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)

The **SOPRA-CELLULOSE** is an excellent insulation for attics of new homes and can also be applied as a complement to other existing insulation in attics. The **SOPRA-CELLULOSE** must be blown with special pneumatic blowing equipment to a minimum density of 24 kg/m<sup>3</sup> (1.5 lb/ft<sup>3</sup>) and can be manually applied in limited spaces.

**CAUTION:** Maintain building, electrical, gas and oil safety code clearances between the insulation and heat emitting devices, such as fuel burning appliances, chimney pipes, ducts and vents to these appliances and recessed light fixtures (at least 75 mm (3 in)) unless approved for insulation contact.

### INJECTED (WALL AND FLOOR)

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

For wall injection, **SOPRA-CELLULOSE** must be injected to a minimum density of 56 kg/m<sup>3</sup> (3.5 lb/ft<sup>3</sup>) for wall thickness up to 150 mm (6 inches) and to a minimum density of 64 kg/m<sup>3</sup> (4.0 lb/ft<sup>3</sup>) for walls thickness greater than 150 mm (6 inches).

For ceiling and floor injection, **SOPRA-CELLULOSE** must be injected at a density of 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>).

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 kg/m <sup>3</sup> (1.5 lb/ft <sup>3</sup> )
Walls:	
Wall thickness up to 150 mm (6 inches):	56 kg/m <sup>3</sup> (3.5 lb/ft <sup>3</sup> )
Wall thickness greater than 150 mm (6 inches):	64 kg/m <sup>3</sup> (4.0 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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## INSTALLATION CHART (ATTIC)

THERMAL RESISTANCE RSI (R)	APPLIED THICKNESS mm (po)	SETTLED THICKNESS mm (po)	MASS PER UNIT AREA kg/m <sup>2</sup> (lb/pi <sup>2</sup> )	COVERAGE PER BAG m <sup>2</sup> (pi <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 24.5 kg/m<sup>3</sup> (1.5 lb/ft<sup>3</sup>).

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](http://www.soprema.ca) or your SOPREMA representative.

## INSTALLATION CHART (WALL)

STRUCTURE	STRUCTURE DIMENSION mm (po)	THERMAL RESISTANCE RSI (R)	MASS PER UNIT AREA kg/m <sup>2</sup> (lb/pi <sup>2</sup> )	COVERAGE PER BAG m <sup>2</sup> (pi <sup>2</sup> )
WOOD	38 x 89 (2 x 4)*	2.6 (14.8)	5.13 (1.05)	2.21 (23.8)
	38 x 140 (2 x 6)*	3.9 (22.2)	7.70 (1.58)	1.48 (15.9)
	38 x 184 (2 x 8)**	5.1 (28.7)	11.35 (2.33)	1.00 (10.8)
METAL	38 x 101 (2 x 4)*	2.9 (16.7)	6.41 (1.31)	1.77 (19.1)
	38 x 152 (2 x 6)*	4.2 (24.1)	9.26 (1.90)	1.23 (13.2)
	38 x 203 (2 x 8)**	5.6 (31.5)	13.87 (2.83)	0.82 (8.8)

\* Minimum installed density of 56 kg/m<sup>3</sup> (3.5 lb/ft<sup>3</sup>) for walls with structures of 38 mm x 150 mm (2 x 6 inches) and less.

\*\* Minimum installed density of 64 kg/m<sup>3</sup> (4 lb/ft<sup>3</sup>) for walls with structures greater than 38 mm x 150 mm (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](http://www.soprema.ca) or your SOPREMA representative.



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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)
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>
Smoulder resistance - mass loss after being exposed to a high temperature	CAN / ULC-S703 CAN / ULC-S130	Max. 15 % of mass loss
Moisture vapour sorption	CAN / ULC-S703 ASTM C739	Less than 20 % in mass gain
Corrosiveness	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
Fungi resistance - in a culture medium containing fungous spores (95 % RH and 28 °C) after 28 days	CAN / ULC-S703 ASTM C1338	No growth
Separation of chemicals - after agitating at 275 cycles/min for 30 minutes	CAN / ULC-S703	Less than 1.5 % of mass

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

## STORAGE AND HANDLING

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



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