

SOPRA-CELLULOSE AB

TECHNICAL DATA SHEET 191210SCANE

(supersedes 190524SCANE)



INSULATION
SOUNDPROOFING

APPLICATIONS

WALLS

INDOOR APPLICATIONS

DESCRIPTION

SOPRA-CELLULOSE AB is an all borate-treated blow-in or injected insulation made of 85% 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 27.2 kg/m³ (1.7 lb/ft³) and can also be hand-poured in restricted spaces.

Secure **SOPRA-CELLULOSE RULERS** to the roof trusses in the attic, with numbering facing the access hatch, to indicate the insulation application thickness. The bottom of the ruler must be installed at the same level as the bottom of the **SOPRA-CELLULOSE AB** insulation. Use one ruler every 20 m² (200 ft²).

Attach the **Coverage Chart for Attics** (available on the product page of the **SOPREMA** website) to a roof truss next to the access hatch, duly signed by the thermal insulation work supervisor. Provide an identical copy to the property owner. The installer also keeps a copy in his records, as required by the **SOPREMA** certification program.

CAUTION

Potential Fire Hazard: Keep cellulose insulation (at least 75 mm(3 in)) 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 56 kg/m³ (3.5 lb/ft³) for wall thickness up to 150 mm (6 in), and to a minimum density of 64 kg/m³ (4 lb/ft³) for walls thickness greater than 150 mm (6 in).

For ceiling and floor injection, **SOPRA-CELLULOSE AB** must be injected at a density of 28.8 kg/m³ (1.8 lb/ft³) to 48 kg/m³ (3 lb/ft³).

Note the number of bags used on the **Coverage Chart (Walls)** (available on the product page of the **SOPREMA** website). Provide a signed copy to the property owner. The installer also keeps a copy in his records, as required by the **SOPREMA** certification program.

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

SOPRA-CELLULOSE AB meets GREENGUARD GOLD certification.

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



SOPREMA.CA

1.877.MAMMOUTH

SOPRA-CELLULOSE AB



INSULATION
SOUNDPROOFING

APPLICATIONS

WALLS

INDOOR APPLICATIONS

TECHNICAL DATA SHEET 191210SCANE

(supersedes 190524SCANE)

PACKAGING

SPECIFICATIONS	SOPRA-CELLULOSE AB
Color	Gray
Density:	
Attics:	27.2 kg/m ³ (1.7 lb/ft ³)
Walls:	
Wall thickness up to 6 inches:	56 kg/m ³ (3.5 lb/ft ³)
Wall thickness greater than 6 inches:	64 kg/m ³ (4.0 lb/ft ³)
Floors:	28.8 kg/m ³ (1.8 lb/ft ³) to 48 kg/m ³ (3.0 lb/ft ³)
Packaging	11.3 kg (25 lb) Bag

INSTALLATION CHART (ATTIC)

COVERAGE CHART (ATTICS) Settled density : 27.2 kg/m ³ (1.7 lb/ft ³)											
THERMAL RESISTIVITY		MINIMUM INSTALLED THICKNESS		MINIMUM SETTLED THICKNESS		MASS PER UNIT AREA		COVERAGE PER BAG		MINIMUM NUMBER OF BAGS PER UNIT AREA	
RSI	R	mm	in	mm	in	kg/m ²	lb/ft ²	m ²	ft ²	100 m ²	1000 ft ²
2.1	12	90	3.5	81	3.2	2.2	0.5	5.1	55.2	19.5	18.1
2.3	13	99	3.9	89	3.5	4	0.5	4.7	50.4	21.3	19.8
3.4	19	146	5.7	131	5.2	3.6	0.7	3.2	34.1	31.6	29.3
3.5	20	150	5.9	135	5.3	3.7	0.8	3.1	33.1	32.5	30.2
3.9	22	167	6.6	151	5.9	4.1	0.8	2.8	29.7	36.2	33.6
5.3	30	227	9.0	205	8.1	5.6	1.1	2.0	21.9	49.2	45.7
5.6	32	240	9.5	216	8.5	5.9	1.2	1.9	20.7	52.0	48.3
6.7	38	287	11.3	259	10.2	7.1	1.4	1.6	17.3	62.2	57.8
7.0	40	300	11.8	271	10.7	7.4	1.5	1.5	16.6	65.0	60.4
8.6	49	382	15.1	332	13.1	9.4	1.9	1.2	13.0	82.7	76.8
8.8	50	391	15.4	340	13.4	9.6	2.0	1.2	12.7	84.6	78.6
10.8	61	501	19.7	417	16.4	12.3	2.5	0.9	9.9	108.4	100.7

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. The thermal resistances presented in this chart are measured after settlement, according to ASTM C518 standard and ASTM C687 conditioning method. A 15% settlement rate for RSI 8,6 (R-49) and RSI 8,8 (R-50) and a 20% settlement for RSI 10,8 (R-61) was added. For the most up-to-date information, please refer to our website at www.soprema.ca.



SOPREMA.CA

1.877.MAMMOUTH

SOPRA-CELLULOSE AB



INSULATION
SOUNDPROOFING

APPLICATIONS

WALLS

INDOOR APPLICATIONS

TECHNICAL DATA SHEET 191210SCANE

(supersedes 190524SCANE)

INSTALLATION CHART (WALL)

COVERAGE CHART (WALLS)									
Wall density : 56 kg/m ³ (3.5 lb/ft ³) or 64 kg/m ³ (4 lb/ft ³)*									
Thermal Resistance		Insulation thickness		Mass per unit area		Coverage per Bag		Minimum Number of Bags per unit area	
RSI	R	mm	in	kg/m ²	lb/ft ²	m ²	ft ²	100 m ²	1000 ft ²
2.2	12.7	89	3.5	4.5	0.9	2.5	27.2	40	37
3.5	19.9	140	5.5	7.0	1.4	1.6	17.3	62	58
6.4	36.2	254	10	15.0	3.1	0.8	8.2	132	123
7.6	43.4	305	12	18.2	3.7	0.6	6.7	160	149
8.9	50.7	356	14	21.4	4.4	0.5	5.7	189	176
10.2	57.9	406	16	24.7	5.1	0.5	4.9	218	202
11.5	65.1	457	18	27.9	5.7	0.4	4.4	246	229
12.7	72.4	508	20	31.2	6.4	0.4	3.9	275	255

*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. The minimum number of bags required takes into account the volume of the wood structure. For walls with metal structure, additional bags may be required. Check with your representative for more information. For the most up-to-date information, please refer to our website at www.soprema.ca or your SOPREMA representative.



SOPREMA.CA

1.877.MAMMOUTH

SOPRA-CELLULOSE AB



INSULATION
SOUNDPROOFING

APPLICATIONS

WALLS

INDOOR APPLICATIONS

TECHNICAL DATA SHEET 191210SCANE

(supersedes 190524SCANE)

PROPERTIES

PROPERTIES	STANDARDS	SOPRA-CELLULOSE AB
Thermal resistance	CAN/ULC-S703 ASTM C518	RSI = 0.65 per 25.4 mm (R = 3.7 per inch)
Surface combustion	ASTM E970	Min. 0.12 W/cm ²
Flame spread rating/index	CAN/ULC-S102.2 ASTM E84	< 150 Class A
Smoke developed classification/index	CAN / ULC-S102.2 ASTM E84	< 45 0-30
Open-flammability	CAN / ULC-S703	Min. 0.12 W/cm ²
Open-flammability permanency	CAN / ULC-S703	Min. 0.12 W/cm ²
Smouldering resistance - mass loss after being exposed to a high temperature	CAN / ULC-S703 CAN / ULC-S130 ASTM C739	Max. 15 % of mass loss
Moisture vapour sorption	CAN/ULC S703 ASTM C739	Less than 20 % in mass gain
Corrosiveness	CAN / ULC-S703 ASTM C739 ASTM G1-90	Exposed @ 50° C (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	CAN / ULC-S703 ASTM C739 ASTM C1338	No growth
Separation of chemicals	CAN / ULC-S703 ASTM C739	Max. 1.5% by mass

Meets standards CAN/ULC-S703, ASTM C739 and 16 CFR Part 1209 , 16 CFR Part 1404

Meets the Greenguard Gold Standard: 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.



SOPREMA.CA

1.877.MAMMOUTH