SOPRA-CELLULOSE

INSULATION
SOUNDPROOFING

APPLICATIONS
WALLS
INDOOR APPLICATIONS

TECHNICAL DATA SHEET 190812SCANE (supersedes 190527SCANE)

DESCRIPTION

SOPRA-CELLULOSE is a blown or injected insulation made of 85% 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 25.6 kg/m^3 (1.6 lb/ft^3) and can be manually applied 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 insulation. Use one ruler every 20 m^2 (200 ft^2).

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: 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. Check with local building or fire officials for guidance on installation and barrier requirements.

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^3 (3.5 lb/ft^3) for wall thickness up to 150 mm (6 inches) and to a minimum density of 64 kg/m^3 (4 lb/ft^3) 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^3 (1.8 lb/ft^3) to 48 kg/m^3 (3 lb/ft^3).

Note the number of bags used on the Estimation Guide for Cellulose Wall Insulation. 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 meets GREENGUARD GOLD certification.

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

TDS_SOPRA_CELLULOSE.indd

SOPREMA®

GREENGUARD GOLD

SYSTÈME QUALITÉ ISO 9001 QUALITY SYSTEM

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PACKAGING

SPECIFICATIONS	SOPRA-CELLULOSE
Colour	Grey
Density: Attics: Walls: Wall thickness up to 150 mm (6 inches): Wall thichness greater than 150 mm (6 inches): Floors:	 25.6 kg/m³ (1.6 lb/ft³) 56 kg/m³ (3.5 lb/ft³) 64 kg/m³ (4.0 lb/ft³) 28.8 kg/m³ (1.8 lb/ft³) to 48 kg/m³ (3.0 lb/ft³)
Packaging	11.3 kg (25 lb) Bag

INSTALLATION CHART (ATTIC)

COVERAGE CHART (ATTICS) Settled density : 25.6 kg/m³ (1.6 lb/ft³)											
THERMAL RESISTIVITY		MINIMUM INSTALLED THICKNESS		MINIMUM SETTLED TICKNESS		MASS PER UNIT AREA		COVERAGE PER BAG		MINIMUM NUMBER OF BAGS PER UNIT AREA	
RSI	R	mm	in	mm	in	kg/m²	lb/ft²	m²	ft²	100 m²	1000 ft²
2.1	12	94	3.7	84	3.3	2.1	0.4	5.3	56.9	19.0	17.6
2.3	13	103	4.0	92	3.6	2.3	0.5	4.8	52.0	20.8	19.2
3.4	19	152	6.0	136	5.3	3.5	0.7	3.3	35.1	30.7	28.5
3.5	20	156	6.2	139	5.5	3.6	0.7	3.2	34.1	31.6	29.3
3.9	22	174	6.9	155	6.1	4.0	0.8	2.8	30.6	35.3	32.6
5.3	30	237	9.3	211	8.3	5.4	1.1	2.1	22.5	47.9	44.4
5.6	32	250	9.8	223	8.8	5.7	1.2	2.0	21.3	50.6	46.9
6.7	38	299	11.8	267	10.5	6.8	1.4	1.7	17.8	60.6	56.1
7.0	40	312	12.3	279	11.0	7.2	1.5	1.6	17.1	63.3	58.6
8.6	49	394	15.5	343	13.5	9.0	1.8	1.3	13.5	79.8	73.9
8.8	50	403	15.9	351	13.8	9.2	1.9	1.2	13.2	81.7	75.6
10.8	61	517	20.3	430	16.9	11.8	2.4	1.0	10.3	104.6	96.8

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.

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INSTALLATION CHART (WALL)

COVERAGE CHART (WALLS) Wall density : 56 kg/m³ (3.5 lb/ft³) or 64 kg/m³ (4 lb/ft³)									
THERMAL RESISTANCE		INSULATION THICKNESS		MASS PER UNIT AREA		COVERAGE PER BAG		MINIMUM NUMBER OF BAGS PER UNIT AREA	
RSI	R	mm	in	kg/m²	lb/ft²	m²	ft²	100 m²	1000 ft²
2.3	13	89	3.5	4.5	0.9	2.5	27.2	40	37
3.6	21	140	5.5	7.0	1.4	1.6	17.3	62	58
6.6	37	254	10	15.0	3.1	0.8	8.2	132	123
7.9	45	305	12	18.2	3.7	0.6	6.7	160	149
9.2	52	356	14	21.4	4.4	0.5	5.7	189	176
10.5	60	406	16	24.7	5.1	0.5	4.9	218	202
11.8	67	457	18	27.9	5.7	0.4	4.4	246	229
13.1	75	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 acount 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.

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PROPERTIES

PROPERTIES	STANDARDS	SOPRA-CELLULOSE
Thermal resistance	CAN / ULC-S703	RSI = 0.65 per 25.4 mm (R = 3.7 per inch)
Flame spread rating	CAN / ULC-S102.2 CAN / ULC-S102	< 150 < 25
Smoke developed classification	CAN / ULC-S102.2	< 45
Open-flammability	CAN / ULC-S703	Min. 0.12 W/cm^2
Open-flammability permanency	CAN / ULC-S703	Min. 0.12 W/cm^2
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 C739 ASTM C1338	No growth
Separation of chemicals - after agitating at 275 cycles/min for 30 minutes	CAN / ULC-S703	Max. 1.5 % by mass

See CCMC Evaluation Report 09232-L (for the product) and CCMC Evaluation Report 12307-R (for SOPRA-CELLULOSE WALL SYSTEMS).
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.

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