



Addendum / Addenda

No./N^o
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Project Description / Description de projet STJ- ReRoofing, Phase 1		
Solicitation No./ No de sollicitation 13-22052	Project No./N ^o de projet STJ-3846	W.O. No./N ^o d'ordre de travail
Project Engineer / Ingénieur de projet Rod Griffiths		Date August 14, 2013
<p>Notice: This addendum shall form part of the tender documents and all conditions shall apply and be read in conjunction with the original plans and specifications.</p>		<p>Nota: Cet addenda fait partie intégrale des dossiers d'appel d'offres; toutes les conditions énoncées doivent être lues et appliquées en conjonction avec les plans et les devis originaux.</p>

Ice Tank Roof Area ONLY

Prior to the installation of the new self-adhered vapour barrier, the Contractor must ensure that the existing plywood deck is secured using the minimum fastening pattern as described in Section 07 52 00, 3.6.3.3. Fasteners are to be in accordance with Section 061011, 2.3.3.

Replace Section 07 21 13, 2.1.2 with the following:

2.1.2 ICE TANK ROOF AREA ONLY: Layer of 25mm (1") high density rigid mineral wool fibre board (minimum density of 11 lbs/ft³ to ASTM C612-09) manufactured from basalt rock and steel slag to ASTM C726; Top surface to be saturated with bitumen with a lightly sanded surface to serve as the overlay/protection board. Fibre board to be factory laminated/bonded to top of one or more closed cell polyisocyanurate insulation board(s) for use on new conventional 2 ply modified bitumen roof system: to CAN/ULC-S704-01. If multiple layers of polyisocyanurate boards are to be used, insulation boards are to be factory laminated/bonded together. Insulation must provide 25mm (1") shiplap on all sides. Overall thickness to be 212.5 mm (8.5") minimum with a combined thermal resistance to be R50 (minimum). Minimum board size to be 1220mm x 1220mm (4' x 4') ship lap. Acceptable product: ProtecRSS COMPOSITE SYSTEM, manufactured by ModulR TS or approved equal. Insulation system to be fully adhered to the substrate (self-adhered vapour barrier) using a low-rise two-part urethane adhesive. Application of the adhesive to be in accordance with the manufacturer's written instructions and based on the manufacturer's design wind uplift securement requirements for the building size and site location. Adhesive to be compatible with the insulation system used in accordance with manufacturer's recommendations. Acceptable

product: Duotack, manufactured by Soprema or approved equal.

As per section 2.1 of part 2 – products- Membrane and Primer Material ; Sopraseal Stick 1100T with Elastocol Stick primer by Soprema is to be considered an acceptable alternate/equal and also under section 2.1 –Polyisocyanurate Insulation ; Sopra-ISO insulation by Soprema is also an acceptable alternate/equal.

Tender closing time to be 14:00 Newfoundland and Labrador Daylight Saving Time NDT Time zone.

SOPRASEAL STICK 1100 T

TECHNICAL DATA SHEET
120227SCAN1E
(supersedes 110214SCAN1E)

DESCRIPTION

SOPRASEAL STICK 1100 T is a self-adhesive membrane composed of SBS modified bitumen and a tri-laminate woven polyethylene facer. This surface is ideal for sprayed polyurethane foam insulation. The self-adhesive underface is covered with a silicone release sheet.

SOPRASEAL STICK 1100 T is an air/vapour barrier membrane. It is also used as masonry and through wall flashing membrane as well as waterproofing membrane at openings and transitions. **SOPRASEAL WFM** can also be use in conjunction with **SOPRASEAL STICK 1100T** as a wall flashing membrane.

Application temperatures: Winter Grade: - 10 to 40 °C (14 to 104 °F)
Summer Grade: 10 to 50 °C (50 to 122 °F)

Service temperatures: Winter Grade: - 45 to 90 °C (- 49 to 194 °F)
Summer Grade: - 45 to 90 °C (- 49 to 194 °F)

APPLICATION

The **SOPRASEAL STICK 1100 T** membranes are applied directly to primed substrates.

1. Clean and dry the substrate.
2. Prime the substrate with **ELASTOCOL STICK** or **ELASTOCOL STICK H₂O**, using a brush or roller.
3. Allow the primer to dry. Primed substrate must be covered the same day.
4. Unroll, align and cut the membrane into required lengths.
5. Peel back about 150-mm (6-inch) of release sheet.
6. Align membrane and install by peeling back the release sheet to adhere to substrate.
7. Use a roller to apply pressure over the entire membrane surface to ensure uniform to substrate.

FOR COMPLETE INFORMATION ON APPLICATION AND SYSTEMS, PLEASE CONSULT OUR SPECIFICATION MANUAL.

PROPERTIES

Properties	Standards	SOPRASEAL STICK 1100 T
Thickness	"	1.0 mm
Dimension	"	22.9 X 0.91 m (75 X 3 ft)
Gross / Net coverage per roll	"	20.8 / 19.7 m ² (225 / 212 ft ²)
Roll Weight	"	21 kg (46 lb)
Underface (complete roll)	"	Silicone release paper
Underface (pre-cut roll)	"	Silicone release plastic film
Top face	"	Tri-laminate woven polyethylene
Storage	"	Upright on pallet
Tensile strength, MD/XD	ASTM D5147	11.3 / 15.4 kN/m (64 / 88 lb/in)
Tensile strength, MD/XD	ASTM D412	11.2 / 13.1 MPa
Ultimate elongation, MD/XD	ASTM D5147	40 / 25 %



SOPRASEAL STICK 1100 T

TECHNICAL DATA SHEET
120227SCAN1E
(supersedes 110214SCAN1E)

PROPERTIES (CONTINUED)

Properties	Standards	SOPRASEAL STICK 1100 T
Ultimate elongation, MD/XD	ASTM D412	88 / 55 %
Flexibility at cold temperature	ASTM D5147	-35 °C (-31 °F)
Static puncture	ASTM D5602	400 N (90 lb)
Static puncture	ASTM E154	747 N (168 lb)
Tear resistance, MD/XD	ASTM D5601	375 / 400 (84 / 90 lb)
Lap adhesion	ASTM D1876	2000 N/m (11.4 lb/in)
Water absorption	ASTM D5147	0.1% max
Peel resistance	ASTM D903	2800 N/m (16 lb/in)
Water vapour permeance	ASTM E96 (Procedure B)	< 0.90 ng/Pa•s•m ² (< 0.016 perm)
Air permeability, 75 Pa	ASTM E283	< 0.0003 L/s•m ²

(All values are nominal)



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ELASTOCOL STICK

TECHNICAL DATA SHEET
130318SCAN1E
(supersedes 130111SCAN2E)

DESCRIPTION

ELASTOCOL STICK is a primer designed to enhance the adhesion of self-adhesive membranes on porous surfaces such as "DENS GLASS GOLD" and "DENS DECK" at temperatures above -10°C (14°F). It is composed of SBS synthetic rubbers, adhesive enhancing resins and volatile solvents. It is also suitable to prime non-porous surfaces such as concrete, fibre cement, metal, and wood.

APPLICATION

ELASTOCOL STICK can be applied with a brush, a roll or a spray can. It must be thoroughly dry before applying the waterproofing membrane. **ELASTOCOL STICK** must be shaken well before use.

WARNING: DO NOT ACCELERATE DRYING OF ELASTOCOL STICK BY HEATING IT WITH A TORCH.

COVERAGE

Average coverage: porous surfaces: 0.3 to 0.5 L/m²,
non-porous surfaces: 0.1 to 0.25 L/m².

PROPERTIES

Properties	Standards	ELASTOCOL STICK
Specific Gravity at 20 °C (68 °F)	"	0.79 kg/L
Colour	"	Red
Solids by Weight	"	24 %
Viscosity, Brookfield at 25 °C (77 °F)	"	200 cP
Flash Point	ASTM D 93	-30 °C (-22 °F)
Drying time	"	15 to 60 minutes, depending on temperature and quantity applied.

(All values are nominal)

PACKAGING

3.78 L, 19 L pails and 350 g spray cans.

STORAGE & HANDLING

Shelf life: Up to 60 months in original sealed containers, in cool and ventilated area.

Tools can be cleaned with petroleum solvents such as mineral spirits, varsol, xylene, etc.

Store in a well ventilated area. Keep away from any source of heat, dampness, humidity, oxidizing agents or direct sunlight. Flammable before curing. Keep away from sources of ignition.

For more information, refer to instruction on the label of the can and to relevant Material Safety Data Sheet (MSDS).

(Formally known as COLGRIP B)
SOPRA-ISO Insulation

TECHNICAL DATA SHEET
120508SCAN1E
(supersedes 120323SCAN2E)

DESCRIPTION

SOPRA-ISO is a closed-cell polyisocyanurate foam insulation board laminated on both sides to a glass fiber reinforced felt facer. It is mainly use as thermal insulation in Soprema's roofing systems.

SOPRA-ISO is also available in tapered insulation.

APPLICATION

Mechanically fastened with screws and stress plates for insulation.

Adhered with hot bitumen (the temperature of the bitumen must be 10 °C (50 °F) below the Equiviscous Temperature (EVT)).

Adhered with **DUOTACK** or **COLTACK** adhesives.

For most projects, the required number of mechanical fasteners and amount of adhesive varies from zone to zone. For more details about these requirements, consult the Wind Uplift Resistance Testing reports according to Canadian standard CSA A123.21-10 or Factory Mutual (FM 4470).

LIMITATIONS

Waterproofing membrane must never be adhered directly over **SOPRA-ISO** insulation boards. A recovery board for roofing must be installed before membrane installation.

1.2 m x 2.4 m (4 ft x 8 ft) boards must not be adhered with hot bitumen or adhesive.

PROPERTIES

SOPRA-ISO meets the physical property requirements of ASTM C 1289, Type II, Class 1, Grade 2 and CAN/ULC S704, Type 2, Class 2.

Properties	Standards	SOPRA-ISO
Thermal Resistance (LTTR) (RSI-Value (R Value) / 25.4 mm @ 24 °C) (RSI-Value (R Value) / 1 in @ 75 °F)	ASTM C 1289	25.40 mm (1.00 in) 1.06 (R – 6.00) 38.10 mm (1.50 in) 1.58 (R – 9.00) 50.80 mm (2.00 in) 2.13 (R – 12.10)
Metal Deck Maximum Flute Spanability ≥ 25.40 mm (1.0 in) < 35.56 mm (1.4 in) > 38.10 mm (1.5 in) ≤ 101.60 mm (4.0 in)	-	66.70 mm (2 5/8 in) 111.10 mm (4 3/8 in)
Compressive Strength	ASTM D 1621	138 kPa (20 psi) 172 kPa (25 psi)*

*Available upon request.
(All values are nominal)

1.Equiviscous Temperature (EVT): The temperature at which bitumen reaches an ideal viscosity threshold of 125 cP (0.125 Pa.s), which guarantees the quantity of mop-applied inter-ply asphalt used in laminated roofing systems. (www.roofingcanada.com)



(Formally known as COLGRIP B)
SOPRA-ISO Insulation

TECHNICAL DATA SHEET
120508SCAN1E
(supersedes 120323SCAN2E)

PROPERTIES (CONTINUED)

SOPRA-ISO meets the physical property requirements of ASTM C 1289, Type II, Class 1, Grade 2 and CAN/ULC S704, Type 2, Class 2.

Properties	Standards	SOPRA-ISO
Density	ASTM D 1622	32.04 kg/m ³ (2.0 lb/ft ³)
Dimensional Stability Linear	ASTM D 2126	< 2.0 %
Water Absorption	ASTM C 209 ASTM D 2842	< 1.0 % < 3.5 %
Flame Spread **	ASTM E 84	40 - 60
Tensile Strength	ASTM D 1623	35 kPa (> 730 lb/ft ²)
Service Temperature	#	-73 to 122 °C (-40 to 200 °F)

(All values are nominals)
** The numerical ratings as determined by ASTM Test Method E 84 are not intended to reflect hazards presented by this or any other material under actual fire conditions.

PACKAGING

Dimensions

SOPRA-ISO is available in 1.2 m x 1.2 m (4 ft x 4 ft) and 1.2 m x 2.4 m (4 ft x 8 ft) panels.

Thicknesses

25.40 mm (1 in), 38.10 mm (1.5 in) or 50.80 mm (2 in).

* Other thicknesses from 25.40 mm to 101.60 mm (1 to 4 inches) available upon special request.

STORAGE & HANDLING

SOPREMA applied packaging is intended only for protection during transit. When stored outdoors or on the job site, the insulation should be stacked on pallets at least three inches above ground level and completely covered with a waterproof covering such as a tarpaulin. The temporary SOPREMA applied packaging should be slit or removed to prevent accumulation of condensation.



Bedard, Marc

From: Griffiths, Rod
Sent: Wednesday, August 14, 2013 1:43 PM
To: Bedard, Marc
Subject: FW: Request for equal - Roofing Replacement Phase 1, St. John's Campus, Newfoundland & Labrador Solicitation # 13-22052, Project # STJ-3846
Attachments: NL-13-1201 - Re-Roofing, Phase 1, St.pdf; Sopraseal Stick 1100T .pdf; Elastocol Stick .pdf; Sopra ISO.pdf; pic02589.gif

Hi Marc,

This was a request from Soprema with regards to their products. The listed products are acceptable as an approved equal.

Rod

-----Original Message-----

From: ggallant@soprema.ca [mailto:ggallant@soprema.ca]
Sent: Tue, Aug 13, 2013 3:19 PM
To: Griffiths, Rod
Subject: Request for equal - Roofing Replacement Phase 1, St. John's Campus, Newfoundland & Labrador Solicitation # 13-22052, Project # STJ-3846

Hi Rodney,

Upon reviewing the Roofing Replacement Phase 1, St. John's Campus, Newfoundland & Labrador Solicitation # 13-22052, Project # STJ-3846. We would like to submit a request for equal for the attached Soprema products. (See attached official request as well as the Technical Data Sheets)

Please review and advise at your earliest convenience.

If you have any question or if you require further information, please do not hesitate to contact us.

Regards
Gerald Gallant

(See attached file: NL-13-1201 - Re-Roofing, Phase 1, St.pdf)(See attached file: Sopraseal Stick 1100T .pdf)(See attached file: Elastocol Stick .pdf) (See attached file: Sopra ISO.pdf)

(Embedded image moved to file: pic02589.gif)