BENO-THERM SPECIFICATION

SECTION 07210
THERMAL AND ACOUSTICAL
LOOSE-FILL INSULATION

In accordance with CAN/ULC-S703 standards

1. General

1.1 RANGE OF WORKS

.1 Supply and install thermal insulation cellulose following the drawing's indication without however limitation to these.

1.2 RELATED WORKS

.1 Carpentry
.2 Mechanical
.3 Electrical

1.3 REFERENCES

.1 CAN/ULC-S703, thermal insulation cellulose loose fiber.

1.4 SAMPLE

.1 Submit to the architect for approval a sample of each product which will be use for the project.

1.5 INSPECTION OF THE SITE

.1 Before the beginning of the work, make sure that the contractor will inspect carefully the site conditions and the work place.

.2 Advise the architect of all site conditions that the contractor will judge unsuitable to the carrying out of a prime quality job.

1.6 DELIVERY AND STORAGE

.1 Deliver materials on the site in their original container, sealed and properly labelled.

.2 Storage must be in a dry area suitably protected.

1.7 GUARANTEE

.1 Supply to the owner a written three (3) years guarantee after the temporary authorised work.

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.2 Repair immediately, without charge to the owner, all parts of the damaged work and if necessary, replace damaged materials.

1.8 PROTECTION

.1 Supply appropriate protection to the materials and to the realized work against all damage due to bad weather or other causes. Also protect all other parts of the work during the execution of work.

.2 Repair all damage work proceeds, and this to the architect satisfaction and without any charge to the owner.

1.9 CLEANING

.1 Clean the site as work proceeds, then clear immediately the site of all scraps and waste.

2. Products

2.1 MATERIALS

.1 Manufactured by : BENOLEC Ltée
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.2 BENO-THERM insulation : conform to the CAN/ULC-S703 standard; value RSI-1.0 : 44 mm. (1.7 ") on application; volume mass : 25.6 kg./m.^{3} (1.6 lbs. ft.^{3}); evaluation report CCMC 09232-L.

.1 Flame spread : 20
.2 Combustion indication : 15
.3 Smoke indication : 35

.3 BENO-MAT membrane : 100 % polypropylene, excellent dimension stability, rot-resistant, exempt from resin or other binder :

.1	Mass :		1,25 oz./v^2
.2	Thickness (inch) :		8,0 mils
.3	Grab Tensile :	MD :	37 lbs
		CD :	37 lbs
.4	Trapezoid :	MD :	18 lbs
	Tear	CD :	20 lbs
.5	Explosion resistance :		35 lbs
.6	Evaluation report CCMC		12307-R.

.4 BENO-VENT cardboard : cardboard fibre, corrugated, pre-creased and cut, ignifugated.

.5 Staples : Conform to the CSA B111 standard.

3. Execution

3.1 INSPECTION

.1 Ensure that empty space between partition walls is not obstructed.

3.2 LABOR

.1 Ensure that the work is performed by a qualified labor, supervised by a contractor who hold is license no 4231 accorded by R.E.C.Q. or by another renown organism.

.2 Ensure that insulation is set in place through a pneumatic blowing system in the roof in such a way to obtain a homogeneous density coat of regular thickness as per technical indication of the covering chart supply by the manufacturer.

.3 Supply and install BENO-VENT between rafters and trusts before proceeding to the installation of the insulation.

.4 Place the chart covering for the BENO-THERM insulation near the access, signed by the work responsible of thermal insulation.

3.3 INSTALLATION OF LOOSE FILL INSULATION IN THE ROOF

.1 Blow the cellulose insulation between the trusts above the ceiling, as per Model National Energy Code of Canada for Houses 1997 and Model National Energy Code of Canada for Buildings 1997 in a way to obtain a thermal resistance RSI of at least 7.0.

.2 Leave a space between the BENO-THERM insulation and the roof to allow free air circulation.

.3 Supply and fix firmly the BENO-VENT between rafters or trusts and in the above part of the walls to avoid any movement of the cellulose fiber by the wind action coming through the soffit.

.4 Keep the insulation at a distance of at least 75 mm. from all element providing heat, for example the flush fit lightning, and at least at 50 mm. from the membrane of the chimney type A conform to the CAN4-S604 standard and from the vents type B or L conform to the CAN/CGA-B149.1 and CAN/CGA-B149.2 standards.

3.4 INSTALLATION OF LOOSE FILL INSULATION IN THE WALL CONFORM TO EVALUATION REPORT CCMC 12307-R

.1 Supply and staple the polyester BENO-MAT membrane to the wall trusts. Make sure that the membrane is well stretched so that they will be no ply and staple it at 60 mm. (2") between axes.

.2 Blow the dry cellulosic insulation between the trusts to obtain a density of 48 kg./m.³ (3.0 lbs./in.³).

3.5.1 INSTALLATION OF LOOSE FILL INSULATION IN THE FLOORS/CEILINGS CONFORM TO THE NATIONAL BUILDING CODE CANADA AND/OR TESTS RESULTS OF THE INSTITUTE FOR RESEARCH IN CONSTRUCTION FROM NATIONAL RESEARCH CENTER CANADA.

.1 Blow the dry cellulosic insulation in the floor/ceiling assemblies at a density of 2,5 lbs / pi^3. Refer to differences above-mentioned test assemblies of floors/ceilings.

.2 Ensure not to cover lighting equipments unless they are beforehand equipped with a metal case approved by CSA or all other equipments unless they are approved for contact with insulation.

Revised january 2011

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