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SHOP DRAWING REVIEW
REVIEWED ☑
REVIEWED AS NOTED ☐
REVISE AND RESUBMIT ☐

"This review is for the sole purpose of ascertaining conformance with the general design concept for architectural features only, and does not in any way constitute review of the design of engineering elements which form part of the Contract Documents prepared by others. This review shall not mean that the Architect approves the detail design inherent in the shop drawings. This responsibility shall remain with the Contractor submitting same, and such review shall not relieve the Contractor of his responsibility for errors or omissions in the shop drawings or of his responsibility for meeting all requirements of the Contract Documents. The Contractor is responsible for dimensions to be confirmed and correlated at the job site, for information that pertains solely to fabrication processes, or to techniques of construction and installation and for co-ordination for the work of all trades."

By: Bryan Bonell Date: Aug. 19, 2019
HOBIN ARCHITECTURE INCORPORATED

HOBIN ARCHITECTURE

ULTRA+ VAPOR BARRIER TECHNICAL DATASHEET

1. MANUFACTURER

Duchesne et Fils Ltée, 871 Boul. Duchesne, Yamachiche, G0X 3L0
Tel. : 819-296-3737,fax : 819-296-3774
www.duchesne.ca

2. MATERIAL

Polyethylene

3. GENERAL CHARACTERISTICS

3.1. The Ultra+ gauge is a certified vapour barrier under the CGSB 51.34-M86 standard.

3.2. The Ultra+ vaport barrier is approved with the listing number 69005

3.3. The Ultra+ vapor barrier is conforming to the requirements of the CGSB 51.34-M86 standard:

3.3.1. Appearance
The material has a uniform appearance and is free from visible defects such as holes, tears, blisters and pinholes in accordance with good industry practice.

3.3.2. Blocking
The material does not stick together to an extent that will cause tearing or damage during unrolling.

3.3.3. Integrity
Each roll is one piece only of material.

3.3.4. Thermal stability
The material is adequately stabilized against long-term thermal degradation, by incorporation of an appropriate low-volatility anti-oxidant.

3.3.5. Sheet length and width
The length and width of the sheet is not less than specified as measured according to ISO 1923.

3.3.6. Resin
Only virgin resin of density range 0.905 to 0.930 g/Ml and maximum melt index of 1.5 g/10 min is employed. Density and melt index are measured as per ASTM D1505 and D1238 respectively.

3.3.7. Tensile strength and elongation
When tested in accordance with ASTM D882 method A, the material meets the requirements, as outlined below:

Tensile strength, machine direction:	12 MPa minimum
Tensile strength, traverse direction:	8 MPa minimum
Elongation, machine direction:	225% minimum
Elongation, traverse direction:	350% minimum

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3.3.8. Water Vapour Permeance
When tested as specified in ASTM E96, Procedure B, the water vapor permeance does not exceed 15 ng/Pa•s•m2 (0.262 US perms). It is a vapor barrier type 1.

3.3.9. Thickness
As measured by ASTM D2103, the average thickness of the material is not less than 6 mil (150 µm), with no point in the film being less than 4.7 mil (120 µm).

3.3.10. Impact strength
As measured by ASTM D1709 Method B, the impact resistance of the material face is not less than 300g.

3.3.11. Oxidative Induction Time
When measured by ASTM D3895 with revisions per Appendix A and B of the CGSB 51.34-M86 standard, the induction time measured on the film is not less than 30 minutes at a test temperature of 190°C (374°F).

3.3.12. Outdoor Weathering Resistance
The material is properly stabilized against ultraviolet light degradation. The film retains at least 50% of original tensile elongation (as measured by ASTM D882) following exposure to 750 kJ/m2 total irradiance at 340 nm in a Xenon arc Weather-Ometer. See ASTM G26-77 and Appendix C of the CGSB 51.34-M86 standard for details of the Weather-Ometer testing.

4. FLAME SPREAD RATE

The Ultra+ vapour barrier has a flame spread rate of less then 150 and complies to ULC S102.2-M88 standard.

5. MARKING

The film is clearly identified with the manufacturer's name & logo, the standard number, the listing number and the nominal film thickness.

6. LABELLING

A clearly visible label is applied on the packing. It identifies the nominal film thickness and the nominal film length and width. It also states that the vapour barrier complies to CGSB 51.34-M86 standard, it advises to keep the film out of sunlight and presents the manufacturer's name, address and production batch.

For additional information: http://www.tpsgc-pwgsc.gc.ca/ongc-cgsb/programme-program/certification/prog/vapeur-vapour-fra.html

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