



## Insulation Solutions

### TRUEBOARD TYPE 3 EXPANDED POLYSTYRENE INSULATION

- TRUEBOARD Type 3 does not contain HFC's, CFC's or HCFC's.
- TRUEBOARD Type 3 is 100% recyclable.
- TRUEBOARD Type 3 has long-term thermal stability.

#### PHYSICAL PROPERTIES

| Physical Property                                     | Units<br>Imperial                      | SI (metric)                         | ASTM Test<br>Procedure | TRUEBOARD<br>TYPE 3   |
|---|--|-------------------------------------|------------------------|---|
| Thermal resistance (R-value) at<br>24°C (75°F)        | hr.ft <sup>2</sup> . °F /<br>Btu / 1in | m <sup>2</sup> . °C /<br>W / 25.4mm | C 177 or<br>C 518      | 4.26<br>(0.75)  |
| Coefficient of thermal expansion                      | in/in/°F                               | m/m°C                               | D 696                  | 3.5x10 <sup>-5</sup> C <sup>-1</sup> (max)<br>(6x10 <sup>-5</sup> C <sup>-1</sup> ) |
| Effective temp. (continuous) range.<br>(intermittent) | °F                                     | °C                                  | -                      | up to 75°C (167°)<br>up to 82°C (180°)  |
| Compressive strength at 10%<br>deformation            | psi                                    | kPa                                 | D 1621                 | 29.6<br>(204)   |
| Flexural strength                                     | psi                                    | kPa                                 | C 203                  | 80<br>(555)   |
| Capillarity   | -                                      | -                                   | -                      | none  |
| Water vapor permeance                                 | perm-in                                | ng/Pa.s.m <sup>2</sup>              | C 355                  | 0.85<br>(113.5)   |
| Water absorption % by volume                          | %                                      | %                                   | D 2842                 | 0.33%   |
| Dimensional Stability % Linear<br>Change (max.)       | %                                      | %                                   | D 2126-75              | -0.3%   |
| Shear Modulus   | psi                                    | kPa                                 | -                      | 460-500 (3170-3445)   |
| Modulus of Elasticity                                 | psi                                    | kPa                                 | -                      | 320-360 (1930-2480)   |

1. Test results provided by Intertek ETL SEMKO
2. Manufactured in compliance with CAN/ULC-S701-2005
3. CCMC Evaluation # 13317-L
4. CAN/ULC tested for fire resistance as per: CAN/ULC-S101-M  
CAN/ULC-S107-M  
CAN/ULC-S126-M