

## Eco-Panels Structural Test Data

| CURRENT TESTS                           | TEST STANDARD         | RESULTS                                    |
|---|-----------------------|--|
| <b>FOAM</b>                             |                       |  |
| Compressive Strength & Modulus          | ASTM D-1624-00        | Strength 35 psi                            |
| Compressive Strength & Modulus          | ASTM D-1624-00        | Modulus 790 psi                            |
| Density                                 | ASTM D-1622-98        | 2.5 pcf                                    |
| Dimensional Stability                   | ASTM D-2126-99        | Excellent                                  |
| Flammability - Smoke Generation         | ASTM E-84-01          | <400                                       |
| Flammability - Flame Spread             | ASTM E-84-01          | <25  |
| Foam Core Fire Rating                   | *** Integrity         | CLASS 1                                    |
| Linear Coefficient of Thermal Expansion | ASTM D-696-98         | -40°F to +240°F                            |
| Closed Cell Content by Air Pycnometer   | ASTM D-2856-87        | >96%                                       |
| Shear Strength and Modulus              | ASTM C-273-61 (1988)  | Strength 26 psi                            |
| Shear Strength and Modulus              | ASTM C-273-61 (1988)  | Modulus 325 psi                            |
| Resistance to Solvent                   | ASTM D-543-95 (2001)  | Excellent                                  |
| Resistance to Mold/Mildew               | ASTM D-543-95 (2001)  | Excellent                                  |
| Thermal Conductivity                    | ASTM C-518-91         | K-factor 0.14(BTU-in/ft <sup>2</sup> hr°F) |
| Thermal Conductivity                    | ASTM C-518-91         | R-Value 7.25 per inch                      |
| Tensile Strength and Modulus            | ASTM D-1623-78 (1995) | Strength 16 psi                            |
| Tensile Strength and Modulus            | ASTM D-1623-78 (1995) | Modulus 325 psi                            |
| Water Absorption                        | ASTM D-2842-01        | 2.40%                                      |
| Vapor Permeability                      | ASTM D-2842-01        | 2 perm/in                                  |

\*\*\* Polyurethane foam is a "thermo-set" plastic. Melting does NOT occur.

| CURRENT TESTS              | TEST STANDARD           | RESULTS                        |
|----------------------------|-------------------------|--------------------------------|
| <b>Structural Panel***</b> |                         | <b>Surfaces Max load (Avg)</b> |
| Compression                | ASTM E-72-98 section 9  | *OSB/OSB 50624                 |
| Transverse                 | ASTM E-72-98 section 11 | *OSB/OSB 6734                  |
| Racking                    | ASTM E-72-98 section 14 | *OSB/OSB 4897                  |
| Compression                | ASTM E-72-98 section 9  | **GALV/GALV 13366              |
| Transverse                 | ASTM E-72-98 section 11 | **GALV/GALV 4900               |
| Racking                    | ASTM E-72-98 section 14 | **GALV/GALV 6723               |

\* 7/16" OSB both surfaces

\*\* 24 GA Galvanized both surfaces

\*\*\* Panel Size = 4-1/2" X 48" X 96"