



# HEAT-SHEET MATERIAL PROPERTY DATA SHEET

**Table 1: Product Chart**

Screed volume rates:

To top of Heat-Sheet nodules = 0.043 ft<sup>3</sup>/ft<sup>2</sup>

For each additional inch of slab = 0.083 ft<sup>3</sup>/ft<sup>2</sup>

Product	Nominal Panel Thickness <sup>1</sup>	Total Panel Thickness <sup>2</sup>	Average R-value <sup>3</sup>	Panels/Bundle	Sqft/Bundle
HS-R4 <sup>4</sup>	0.5"	1 3/8"	4	16	128
HS-R6 <sup>4</sup>	1.0"	1 7/8"	6	14	112
HS-R8	1.5"	2 3/8"	8	8	64
HS-R10 <sup>5</sup>	2.0"	2 7/8"	10	8	64
HS-R12 <sup>5,6</sup>	2.5"	3 3/8"	12	6	48
HS-R14 <sup>5,6</sup>	3.0"	3 7/8"	14	6	48

1. Refers to thickness of the panel minus nodules.
2. Refers to thickness of nodule plus nominal panel thickness.
3. In accordance with ASTM C578, and CAN/ULC S701, at 75°F (24°C). R-value is determined by the weighted average R-value of nodule and panel profiles.
4. These panels do not interlock.
5. Additional vapor barrier not required when using Type 3 EPS, per CAN/ULC S701.
6. Additional vapor barrier not required when using Type IX EPS.

**Table 2: Material Properties**

ASTM C578 <sup>1</sup>	Type II	Type IX
Thermal Resistance Min. @ 75°F	See Table 1	See Table 1
Compressive Resistance Min., psi	16	25 <sup>2</sup>
Flexural Resistance Min., psi	35	50
Water Vapor Permeance Max., perms	3.5	2.5 <sup>3</sup>
Water Absorption Max., %	3	2
Dimensional Stability Max., %	2	2
Oxygen Index Min., %	24	24
CAN/ULC S701 <sup>1</sup>	Type 2	Type 3
Thermal Resistance Min. @ 24°C	See Table 1	See Table 1
Compressive Resistance Min., kPa	110	140 <sup>2</sup>
Flexural Resistance Min., kPa	240	300
Water Vapor Permeance Max., ng/Pa-s-m <sup>2</sup>	200	130 <sup>3</sup>
Water Absorption Max., %	4	2
Dimensional Stability Max.	1.5	1.5
Oxygen Index Min., %	24	24

1. Unless noted otherwise, properties are based on uniform 1" thickness.
2. Compressive strengths up to 207 kPa (3000 psi).
3. Additional vapor barrier may not be required depending on nominal panel thickness. See Notes 5 and 6 of Table 1.

**Table 4: Surface Burning Characteristics**

Product	Flame Spread Index Max.	Smoke Developed Index Max.	Thickness Max.	Density
HS-R4	25	450	6 in.	2 pcf
HS-R14	210	415	102 mm	32 kg/m <sup>3</sup>