



THERMAL INSULATION VALUE of INTEGRASPEC ICF WALL COMPONENTS + R-Boost

Table R-6.2 (6 in (152 mm)) Concrete Core) + 2 in (50.8 mm) R-Boost

| Wall Material Insulating Properties | Thickness in. (mm) | Thermal Resistance F-hr-ft ² /BTU – in | R-value F-hr-ft ² /BTU (RSI) |
|---|--------------------|---|---|
| Exterior Wall Finishing | Not incl. | Not incl. | Not incl. |
| Air Barrier / Film | N/A | N/A | N/A |
| IntegraSpec Panel (Type 2 EPS – 1.50 lbs/cu/ft) | 2.5 (63.5) | 4.2 | 10.5 (1.85) |
| Concrete-insulated* | 6.0 (152.4) | 1.2 | 7.2 (1.27) |
| IntegraSpec R-Boost (Type 2 EPS – 1.50 lbs/cu/ft) | 2.0 (50.8) | 4.2 | 8.4 (1.48) |
| IntegraSpec Panel (Type 2 EPS – 1.50 lbs/cu/ft) | 2.5 (63.5) | 4.2 | 10.5 (1.85) |
| Interior Wall Finishing Gypsum Board/Drywall | 0.5 (12.7) | 0.9 | 0.45 (0.08) |
| Thermal Insulation Total | | | 37.05 (6.53) |
| [U Value = 1/R X 5.682] | | | [0.153 W/m²k] |

Note: Above table shows the R-value (U-value) for the various thermal insulation materials forming part of the IntegraSpec ICF wall system (does not include exterior wall finish). IntegraSpec® EPS panels as tested by Intertek - Warnock Hershey (Test Report No. 3044735) in accordance to ASTM C578-01, CAN/ULC S-701-01 (test results shown below):

IntegraSpec® Panels = Type 2, Expanded Polystyrene (EPS):

A- Density (ASTM C 303-98) = 1.50 Lbs/ft³ (24.14 kg/m³)

B- Compressive (ASTM C 165-00) = 20 psi (138 kPa) @ 10% deformation

C- Flexural Strength (ASTM C203-99) = 38.60 psi (291 kPa)

Water Vapour Permeance

Test Results IntegraSpec's 2.5 in (63.5mm) EPS panel(s): (ASTM E 96-00e) = 0.69 perms (39.8 ng/Pa.s.m²) - *Body Cote Test Report No. 04-06-M0242.*

Air Leakage

IntegraSpec®'s Type 2 EPS panel(s) nominal air leakage characteristic = (0.0214 L/(s.m²)) at 75 Pa per 25 mm (excluding concrete core and finishes).

*Above values includes published third party industry data.



THERMAL INSULATION VALUE of INTEGRASPEC ICF WALL COMPONENTS + R-Boost

Table R-6.4 (6 in (152 mm)) Concrete Core) + 4 in (102.0 mm) R-Boost

| Wall Material Insulating Properties | Thickness in. (mm) | Thermal Resistance F-hr-ft ² /BTU – in | R-value F-hr-ft ² /BTU (RSI) |
|---|--------------------|---|---|
| Exterior Wall Finishing | Not incl. | Not incl. | Not incl. |
| Air Barrier / Film | N/A | N/A | N/A |
| IntegraSpec Panel (Type 2 EPS – 1.50 lbs/cu/ft) | 2.5 (63.5) | 4.2 | 10.5 (1.85) |
| Concrete-insulated* | 6.0 (152.4) | 1.2 | 7.2 (1.27) |
| IntegraSpec R-Boost (Type 2 EPS – 1.50 lbs/cu/ft) | 4.0 (102) | 4.2 | 16.8 (2.96) |
| IntegraSpec Panel (Type 2 EPS – 1.50 lbs/cu/ft) | 2.5 (63.5) | 4.2 | 10.5 (1.85) |
| Interior Wall Finishing Gypsum Board/Drywall | 0.5 (12.7) | 0.9 | 0.45 (0.08) |
| Thermal Insulation Total | | | 45.45 (8.00) |
| [U Value = 1/R X 5.682] | | | [0.125 W/m²k] |

Note: Above table shows the R-value (U-value) for the various thermal insulation materials forming part of the IntegraSpec ICF wall system (does not include exterior wall finish). IntegraSpec® EPS panels as tested by Intertek - Warnock Hershey (Test Report No. 3044735) in accordance to ASTM C578-01, CAN/ULC S-701-01 (test results shown below):

IntegraSpec® Panels = Type 2, Expanded Polystyrene (EPS):

A- Density (ASTM C 303-98) = 1.50 Lbs/ft³ (24.14 kg/m³)

B- Compressive (ASTM C 165-00) = 20 psi (138 kPa) @ 10% deformation

C- Flexural Strength (ASTM C203-99) = 38.60 psi (291 kPa)

Water Vapour Permeance

Test Results IntegraSpec's 2.5 in (63.5mm) EPS panel(s): (ASTM E 96-00e) = 0.69 perms (39.8 ng/Pa.s.m²) - *Body Cote Test Report No. 04-06-M0242.*

Air Leakage

IntegraSpec®'s Type 2 EPS panel(s) nominal air leakage characteristic = (0.0214 L/(s.m²) at 75 Pa per 25 mm (excluding concrete core and finishes).

*Above values includes published third party industry data.



THERMAL INSULATION VALUE of INTEGRASPEC ICF WALL COMPONENTS + R-Boost

Table R-6.6 (6 in (152.4 mm)) Concrete Core) + 6 in (152.4 mm) R-Boost

| Wall Material Insulating Properties | Thickness in. (mm) | Thermal Resistance F-hr-ft ² /BTU – in | R-value F-hr-ft ² /BTU (RSI) |
|---|--------------------|---|---|
| Exterior Wall Finishing | Not incl. | Not incl. | Not incl. |
| Air Barrier / Film | N/A | N/A | N/A |
| IntegraSpec Panel (Type 2 EPS – 1.50 lbs/cu/ft) | 2.5 (63.5) | 4.2 | 10.5 (1.85) |
| Concrete-insulated* | 6.0 (152.4) | 1.2 | 7.2 (1.27) |
| IntegraSpec R-Boost (Type 2 EPS – 1.50 lbs/cu/ft) | 6.0 (152.4) | 4.2 | 25.2 (4.44) |
| IntegraSpec Panel (Type 2 EPS – 1.50 lbs/cu/ft) | 2.5 (63.5) | 4.2 | 10.5 (1.85) |
| Interior Wall Finishing Gypsum Board/Drywall | 0.5 (12.7) | 0.9 | 0.45 (0.08) |
| Thermal Insulation Total | | | 53.85 (9.48) |
| [U Value = 1/R X 5.682] | | | [0.105 W/m²k] |

Note: Above table shows the R-value (U-value) for the various thermal insulation materials forming part of the IntegraSpec ICF wall system (does not include exterior wall finish). IntegraSpec® EPS panels as tested by Intertek - Warnock Hershey (Test Report No. 3044735) in accordance to ASTM C578-01, CAN/ULC S-701-01 (test results shown below):

IntegraSpec® Panels = Type 2, Expanded Polystyrene (EPS):

A- Density (ASTM C 303-98) = 1.50 Lbs/ft³ (24.14 kg/m³)

B- Compressive (ASTM C 165-00) = 20 psi (138 kPa) @ 10% deformation

C- Flexural Strength (ASTM C203-99) = 38.60 psi (291 kPa)

Water Vapour Permeance

Test Results IntegraSpec's 2.5 in (63.5mm) EPS panel(s): (ASTM E 96-00e) = 0.69 perms (39.8 ng/Pa.s.m²) - *Body Cote Test Report No. 04-06-M0242.*

Air Leakage

IntegraSpec®'s Type 2 EPS panel(s) nominal air leakage characteristic = (0.0214 L/(s.m²)) at 75 Pa per 25 mm (excluding concrete core and finishes).

*Above values includes published third party industry data.



THERMAL INSULATION VALUE of INTEGRASPEC ICF WALL COMPONENTS + R-Boost

Table R-7.5-2.5 (7.5 in (190.5 mm)) Concrete Core) + 2.5in (63.5mm) R-Boost

| Wall Material Insulating Properties | Thickness in. (mm) | Thermal Resistance F-hr-ft ² /BTU – in | R-value F-hr-ft ² /BTU (RSI) |
|--|--------------------|---|--|
| Exterior Wall Finishing | Not incl. | Not incl. | Not incl. |
| Air Barrier / Film | N/A | N/A | N/A |
| IntegraSpec Panel (Type 2 EPS – 1.50 lbs/cu/ft) | 2.5 (63.5) | 4.2 | 10.5 (1.85) |
| Concrete-insulated* | 7.5 (190.5) | 1.2 | 9.0 (1.58) |
| IntegraSpec Panel (Type 2 EPS – 1.50 lbs/cu/ft) | 2.5 (63.5) | 4.2 | 10.5 (1.85) |
| IntegraSpec R-Boost (Type 2 EPS – 1.50 lbs/cu/ft) | 2.5 (63.5) | 4.2 | 10.5 (1.85) |
| Interior Wall Finishing Gypsum Board/Drywall | 0.5 (12.7) | 0.9 | 0.45 (0.08) |
| Thermal Insulation Total [U Value = 1/R X 5.682] | | | 40.95 (7.21) [0.138 W/m²k] |

Note: Above table shows the R-value (U-value) for the various thermal insulation materials forming part of the IntegraSpec ICF wall system (does not include exterior wall finish). IntegraSpec® EPS panels as tested by Intertek - Warnock Hershey (Test Report No. 3044735) in accordance to ASTM C578-01, CAN/ULC S-701-01 (test results shown below):

IntegraSpec® Panels = Type 2, Expanded Polystyrene (EPS):

A- Density (ASTM C 303-98) = 1.50 Lbs/ft³ (24.14 kg/m³)

B- Compressive (ASTM C 165-00) = 20 psi (138 kPa) @ 10% deformation

C- Flexural Strength (ASTM C203-99) = 38.60 psi (291 kPa)

Water Vapour Permeance

Test Results IntegraSpec's 2.5 in (63.5mm) EPS panel(s): (ASTM E 96-00e) = 0.69 perms (39.8 ng/Pa.s.m²) - *Body Cote Test Report No. 04-06-M0242.*

Air Leakage

IntegraSpec®'s Type 2 EPS panel(s) nominal air leakage characteristic = (0.0214 L/(s.m²)) at 75 Pa per 25 mm (excluding concrete core and finishes).

*Above values includes published third party industry data.



THERMAL INSULATION VALUE of INTEGRASPEC ICF WALL COMPONENTS + R-Boost

Table R-7.3 (7 in (177.8 mm)) Concrete Core) + 3 in (76.2 mm) R-Boost

| Wall Material Insulating Properties | Thickness in. (mm) | Thermal Resistance F-hr-ft ² /BTU – in | R-value F-hr-ft ² /BTU (RSI) |
|--|--------------------|---|---|
| Exterior Wall Finishing | Not incl. | Not incl. | Not incl. |
| Air Barrier / Film | N/A | N/A | N/A |
| IntegraSpec Panel (Type 2 EPS – 1.50 lbs/cu/ft) | 2.5 (63.5) | 4.2 | 10.5 (1.85) |
| Concrete-insulated* | 7.0 (177.8) | 1.2 | 8.4 (1.48) |
| IntegraSpec R-Boost (Type 2 EPS – 1.50 lbs/cu/ft) | 3.0 (76.2) | 4.2 | 12.6 (2.22) |
| IntegraSpec Panel (Type 2 EPS – 1.50 lbs/cu/ft) | 2.5 (63.5) | 4.2 | 10.5 (1.85) |
| Interior Wall Finishing Gypsum Board/Drywall | 0.5 (12.7) | 0.9 | 0.45 (0.08) |
| Thermal Insulation Total [U Value = 1/R X 5.682] | | | 42.45 (7.48) [0.133 W/m ² k] |

Note: Above table shows the R-value (U-value) for the various thermal insulation materials forming part of the IntegraSpec ICF wall system (does not include exterior wall finish). IntegraSpec® EPS panels as tested by Intertek - Warnock Hershey (Test Report No. 3044735) in accordance to ASTM C578-01, CAN/ULC S-701-01 (test results shown below):

IntegraSpec® Panels = Type 2, Expanded Polystyrene (EPS):

A- Density (ASTM C 303-98) = 1.50 Lbs/ft³ (24.14 kg/m³)

B- Compressive (ASTM C 165-00) = 20 psi (138 kPa) @ 10% deformation

C- Flexural Strength (ASTM C203-99) = 38.60 psi (291 kPa)

Water Vapour Permeance

Test Results IntegraSpec's 2.5 in (63.5mm) EPS panel(s): (ASTM E 96-00e) = 0.69 perms (39.8 ng/Pa.s.m²) - *Body Cote Test Report No. 04-06-M0242.*

Air Leakage

IntegraSpec®'s Type 2 EPS panel(s) nominal air leakage characteristic = (0.0214 L/(s.m²)) at 75 Pa per 25 mm (excluding concrete core and finishes).

*Above values includes published third party industry data.



THERMAL INSULATION VALUE of INTEGRASPEC ICF WALL COMPONENTS + R-Boost

Table R-6.5-3.5 (6.5 in (165.1 mm)) Concrete Core) + 3.5in (88.9 mm) R-Boost

| Wall Material Insulating Properties | Thickness in. (mm) | Thermal Resistance F-hr-ft ² /BTU – in | R-value F-hr-ft ² /BTU (RSI) |
|--|--------------------|---|---|
| Exterior Wall Finishing | Not incl. | Not incl. | Not incl. |
| Air Barrier / Film | N/A | N/A | N/A |
| IntegraSpec Panel (Type 2 EPS – 1.50 lbs/cu/ft) | 2.5 (63.5) | 4.2 | 10.5 (1.85) |
| Concrete-insulated* | 6.5 (165.1) | 1.2 | 7.8 (1.37) |
| IntegraSpec R-Boost (Type 2 EPS – 1.50 lbs/cu/ft) | 3.5 (88.9) | 4.2 | 14.7 (2.59) |
| IntegraSpec Panel (Type 2 EPS – 1.50 lbs/cu/ft) | 2.5 (63.5) | 4.2 | 10.5 (1.85) |
| Interior Wall Finishing Gypsum Board/Drywall | 0.5 (12.7) | 0.9 | 0.45 (0.08) |
| Thermal Insulation Total [U Value = 1/R X 5.682] | | | 43.58 (7.67) [0.130 W/m ² k] |

Note: Above table shows the R-value (U-value) for the various thermal insulation materials forming part of the IntegraSpec ICF wall system (does not include exterior wall finish). IntegraSpec® EPS panels as tested by Intertek - Warnock Hershey (Test Report No. 3044735) in accordance to ASTM C578-01, CAN/ULC S-701-01 (test results shown below):

IntegraSpec® Panels = Type 2, Expanded Polystyrene (EPS):

A- Density (ASTM C 303-98) = 1.50 Lbs/ft³ (24.14 kg/m³)

B- Compressive (ASTM C 165-00) = 20 psi (138 kPa) @ 10% deformation

C- Flexural Strength (ASTM C203-99) = 38.60 psi (291 kPa)

Water Vapour Permeance

Test Results IntegraSpec's 2.5 in (63.5mm) EPS panel(s): (ASTM E 96-00e) = 0.69 perms (39.8 ng/Pa.s.m²) - *Body Cote Test Report No. 04-06-M0242.*

Air Leakage

IntegraSpec®'s Type 2 EPS panel(s) nominal air leakage characteristic = (0.0214 L/(s.m²)) at 75 Pa per 25 mm (excluding concrete core and finishes).

*Above values includes published third party industry data.



THERMAL INSULATION VALUE of INTEGRASPEC ICF WALL COMPONENTS + R-Boost

Table R-7.5-4.5 (7.5 in (190.5 mm)) Concrete Core) + 4.5 in (114.5 mm) R-Boost

| Wall Material Insulating Properties | Thickness in. (mm) | Thermal Resistance F-hr-ft ² /BTU – in | R-value F-hr-ft ² /BTU (RSI) |
|---|--------------------|---|---|
| Exterior Wall Finishing | Not incl. | Not incl. | Not incl. |
| Air Barrier / Film | N/A | N/A | N/A |
| IntegraSpec Panel (Type 2 EPS – 1.50 lbs/cu/ft) | 2.5 (63.5) | 4.2 | 10.5 (1.85) |
| Concrete-insulated* | 7.5 (190.5) | 1.2 | 9.0 (1.58) |
| IntegraSpec R-Boost (Type 2 EPS – 1.50 lbs/cu/ft) | 4.5 (114.5) | 4.2 | 18.9 (3.33) |
| IntegraSpec Panel (Type 2 EPS – 1.50 lbs/cu/ft) | 2.5 (63.5) | 4.2 | 10.5 (1.85) |
| Interior Wall Finishing Gypsum Board/Drywall | 0.5 (12.7) | 0.9 | 0.45 (0.08) |
| Thermal Insulation Total | | | 49.35 (8.69) |
| [U Value = 1/R X 5.682] | | | [0.115 W/m²k] |

Note: Above table shows the R-value (U-value) for the various thermal insulation materials forming part of the IntegraSpec ICF wall system (does not include exterior wall finish). IntegraSpec® EPS panels as tested by Intertek - Warnock Hershey (Test Report No. 3044735) in accordance to ASTM C578-01, CAN/ULC S-701-01 (test results shown below):

IntegraSpec® Panels = Type 2, Expanded Polystyrene (EPS):

A- Density (ASTM C 303-98) = 1.50 Lbs/ft³ (24.14 kg/m³)

B- Compressive (ASTM C 165-00) = 20 psi (138 kPa) @ 10% deformation

C- Flexural Strength (ASTM C203-99) = 38.60 psi (291 kPa)

Water Vapour Permeance

Test Results IntegraSpec's 2.5 in (63.5mm) EPS panel(s): (ASTM E 96-00e) = 0.69 perms (39.8 ng/Pa.s.m²) - *Body Cote Test Report No. 04-06-M0242.*

Air Leakage

IntegraSpec®'s Type 2 EPS panel(s) nominal air leakage characteristic = (0.0214 L/(s.m²)) at 75 Pa per 25 mm (excluding concrete core and finishes).

*Above values includes published third party industry data.



THERMAL INSULATION VALUE of INTEGRASPEC ICF WALL COMPONENTS + R-Boost

Table R-7-5 (7 in (177.8 mm)) Concrete Core) + 5 in (127 mm) R-Boost

| Wall Material Insulating Properties | Thickness in. (mm) | Thermal Resistance F-hr-ft ² /BTU – in | R-value F-hr-ft ² /BTU (RSI) |
|--|--------------------|---|---|
| Exterior Wall Finishing | Not incl. | Not incl. | Not incl. |
| Air Barrier / Film | N/A | N/A | N/A |
| IntegraSpec Panel (Type 2 EPS – 1.50 lbs/cu/ft) | 2.5 (63.5) | 4.2 | 10.5 (1.85) |
| Concrete-insulated* | 7.0 (177.8) | 1.2 | 8.4 (1.48) |
| IntegraSpec R-Boost (Type 2 EPS – 1.50 lbs/cu/ft) | 5.0 (127) | 4.2 | 21.0 (3.70) |
| IntegraSpec Panel (Type 2 EPS – 1.50 lbs/cu/ft) | 2.5 (63.5) | 4.2 | 10.5 (1.85) |
| Interior Wall Finishing Gypsum Board/Drywall | 0.5 (12.7) | 0.9 | 0.45 (0.08) |
| Thermal Insulation Total [U Value = 1/R X 5.682] | | | 50.85 (8.95) [0.111 W/m ² k] |

Note: Above table shows the R-value (U-value) for the various thermal insulation materials forming part of the IntegraSpec ICF wall system (does not include exterior wall finish). IntegraSpec® EPS panels as tested by Intertek - Warnock Hershey (Test Report No. 3044735) in accordance to ASTM C578-01, CAN/ULC S-701-01 (test results shown below):

IntegraSpec® Panels = Type 2, Expanded Polystyrene (EPS):

A- Density (ASTM C 303-98) = 1.50 Lbs/ft³ (24.14 kg/m³)

B- Compressive (ASTM C 165-00) = 20 psi (138 kPa) @ 10% deformation

C- Flexural Strength (ASTM C203-99) = 38.60 psi (291 kPa)

Water Vapour Permeance

Test Results IntegraSpec's 2.5 in (63.5mm) EPS panel(s): (ASTM E 96-00e) = 0.69 perms (39.8 ng/Pa.s.m²) - *Body Cote Test Report No. 04-06-M0242.*

Air Leakage

IntegraSpec®'s Type 2 EPS panel(s) nominal air leakage characteristic = (0.0214 L/(s.m²)) at 75 Pa per 25 mm (excluding concrete core and finishes).

*Above values includes published third party industry data.



THERMAL INSULATION VALUE of INTEGRASPEC ICF WALL COMPONENTS + R-Boost

Table R-6.5-5.5 (6.5 in (165.1 mm)) Concrete Core) + 5.5 in (139.7 mm) R-Boost

| Wall Material Insulating Properties | Thickness in. (mm) | Thermal Resistance F-hr-ft ² /BTU – in | R-value F-hr-ft ² /BTU (RSI) |
|---|--------------------|---|---|
| Exterior Wall Finishing | Not incl. | Not incl. | Not incl. |
| Air Barrier / Film | N/A | N/A | N/A |
| IntegraSpec Panel (Type 2 EPS – 1.50 lbs/cu/ft) | 2.5 (63.5) | 4.2 | 10.5 (1.85) |
| Concrete-insulated* | 6.5 (165.1) | 1.2 | 7.8 (1.37) |
| IntegraSpec R-Boost (Type 2 EPS – 1.50 lbs/cu/ft) | 5.5 (139.7) | 4.2 | 23.1 (4.07) |
| IntegraSpec Panel (Type 2 EPS – 1.50 lbs/cu/ft) | 2.5 (63.5) | 4.2 | 10.5 (1.85) |
| Interior Wall Finishing Gypsum Board/Drywall | 0.5 (12.7) | 0.9 | 0.45 (0.08) |
| Thermal Insulation Total | | | 52.35 (9.22) |
| [U Value = 1/R X 5.682] | | | [0.108 W/m²k] |

Note: Above table shows the R-value (U-value) for the various thermal insulation materials forming part of the IntegraSpec ICF wall system (does not include exterior wall finish). IntegraSpec® EPS panels as tested by Intertek - Warnock Hershey (Test Report No. 3044735) in accordance to ASTM C578-01, CAN/ULC S-701-01 (test results shown below):

IntegraSpec® Panels = Type 2, Expanded Polystyrene (EPS):

A- Density (ASTM C 303-98) = 1.50 Lbs/ft³ (24.14 kg/m³)

B- Compressive (ASTM C 165-00) = 20 psi (138 kPa) @ 10% deformation

C- Flexural Strength (ASTM C203-99) = 38.60 psi (291 kPa)

Water Vapour Permeance

Test Results IntegraSpec's 2.5 in (63.5mm) EPS panel(s): (ASTM E 96-00e) = 0.69 perms (39.8 ng/Pa.s.m²) - *Body Cote Test Report No. 04-06-M0242.*

Air Leakage

IntegraSpec®'s Type 2 EPS panel(s) nominal air leakage characteristic = (0.0214 L/(s.m²)) at 75 Pa per 25 mm (excluding concrete core and finishes).

*Above values includes published third party industry data.