Made in Canada

Tech-Crete Processors Ltd.®

INSULATED PANEL PRODUCTS

est. 1983

SRI® Roof Panels

CFI® Wall Panels

Manufactured Using DOW® Products

Proud Members of

RCABC Roofing Contractors Association of Bristish Columbia

ARCA Alberta Roofing Contractors Association

CTI® Concrete Topped Insulated Roof Panels

SRI® Solar Reflective Insulated Roof Panels

CFI® Concrete Faced Insulated Wall Panels

2930 - 13th Avenue SW • Salmon Arm, BC • V1E 3K1 • 250.832.9705 • tech-crete.com

[Alberta Research Council, CTI Roof Panels]

[Edmonton Clinic Health Academy, SRI Roof Panels]

ROOF PANELS

Tech-Crete CTI®

Concrete Topped Insulated Roof Panels

- Concrete Topped Insulation for Protected Membrane Roof (PMR) assemblies with highly efficient STYROFOAM™ brand foam insulation and a durable concrete topped surface
- 2' x 4' (610 mm x 1220 mm) lightweight, self-ballasted concrete topped insulated panel
- Interlocking tongue and groove assembly, designed to be loose laid
- Concrete topping is a nominal 3/8" (10 mm) thick latex modified grey concrete with a smooth finish. A 1/8" (3 mm) relief score line is cut at 2' (610 mm) along the 4' (1220 mm) length
- Extends membrane life by protecting against:
  - Temperature extremes, UV degradation and hail damage
  - Mechanical damage
  - Occasional roof maintenance foot traffic
  - Vandalism and environmental elements (birds, weather etc.)
- Easy to install
- Visually attractive
- Easy to clean
- Reusable

Available in 2"(R10), 3"(R15) or 4"(R20)

Tech-Crete SRI®

Solar Reflective Insulated Roof Panels

- Solar Reflective Insulation for Protected Membrane Roof (PMR) assemblies with highly efficient STYROFOAM™ brand foam insulation and a durable concrete topped surface
- All the benfits of CTI®, plus solar reflectivity
- Designed to minimize the heat island effect of low-sloped roofs and qualify for LEED® SS credit 7.2, Heat Island Effect: Roof
- Since the white concrete topping maintains its solar reflectivity throughout its entire thickness, there is no reflective coating to maintain or reapply. A simple rinse or light pressure wash will rejuvenate the solar reflectivity
- Concrete topping is a nominal 3/8" (10 mm) thick latex modified white concrete with a smooth finish. A 1/8" (3 mm) relief score line is cut at 2' (610 mm) along the 4' (1220 mm) length
- Reusable

WALL PANELS

Tech-Crete CFI®

Concrete Faced Insulated Wall Panels

- Concrete Faced Insulation for use below and above-grade, against concrete, block or brick, exposed to a height not to exceed 36' (11 m).
  - Also can be used for Water treatment tank insulation, or any suitably shaped tank process requiring temperature control
- 2' x 4' (610 mm x 1220 mm) prefinished, one step exterior insulating panels complete with patented mounting hardware
- Interlocking tongue and groove assembly
- Highly efficient STYROFOAM™ brand foam insulation and durable concrete finish in one installation
- The facing is a nominal 5/16" (8 mm) latex modified grey concrete with a light broom finish. A 1/8" (3 mm) relief score line is cut at 2' (610 mm) along the 4' (1220 mm) length.
- Easy to install
- Can be field coated with quality latex or acrylic latex masonry coating to match existing colour, or to upgrade building exterior
- Can be installed in most weather conditions
- Extends life cycle of masonry structures by minimizing freeze / thaw degradation
- Reusable

[Whistler Sliding Centre, CFI Wall Panels]

For additional Information, the following publications are available through your local distributer or online at: **tech-crete.com/downloads**

- CTI®, SRI® and CFI® Master Specifications
- CTI®/SRI® Roof Installtion Guide
- CFI® Wall Installtion Guide
- MSDS's
- Warranty Information

Potential LEED® CANADA Credits

PRODUCT	CTI® Roof	SRI® Roof	CFI® Wall
Sustainable Sites (SS)			
Credit 7.2 - Heat Island Effect: Roof	-	1	-
Energy & Atmosphere (EA)			
Credit 1 - Optimize Energy Performance	1-19	1-19	1-19
Materials & Resources (MR)			
Credit 1.1 - Building Reuse	1-3	1-3	1-3
Credit 2 - Construction Waste Mgt.	1-2	1-2	1-2
Maintain Existing Walls, Floors & Roof			
Credit 3 - Materials Reuse	1-2	1-2	1-2
Credit 5 - Regional Materials	1-2	1-2	1-2
Indoor Environmental Quality (IEQ)			
Credit 3.1 - Construction Indoor Air Quality Management Plan: During Construction	1	1	1
Credit 7.1 - Thermal Comfort: Design	1	1	1
Innovation in Design (ID)			
Credit 1 - Innovation in Design	1	1	1
Regional Priority (RP)			
Credit 1 - Durable Building	1	1	1
Credit 2 - Regional Priority Credit	-	1-3	1-3

*See the LEED® section on our website for more information. www.tech-crete.com

CTI® Concrete Topped Insulated Roof Panels

Using CAN/ULC - S701 Type 4 Insulation

PRODUCT DATA

Manufacturer

Tech-Crete Processors Ltd.
2930 - 13th Avenue SW
Salmon Arm, BC V1E 3K1
Phone: 250.832.9705
tech-crete.com

Product Description

BASIC USES

Concrete Topped Insulated (CTI®) Roof Panels are self-ballasted and designed for loose laid installation above waterproofing or roofing membranes in a protected membrane roof (PMR) assembly.

CTI® roof panels consist of 2" (50 mm), 3" (75 mm), or 4" (100 mm) STYROFOAM™ brand foam insulation with a 3/8" (10 mm) (nominal) thick latex-modified concrete topping. They provide insulation and ballast in an easy-to-install product that can be handled by one person. They are ideal for new and retrofit applications where dead load roof weight is a concern.

With tongue and groove sides, **CTI®** roof panels can be easily removed and reused after membrane inspection or to construct additional stories in a vertical expansion project.

CTI® roof panels keep the roof membrane at a steady temperature, minimizing the harmful effects of freeze-thaw cycles, weathering, UV degradation, and physical damage during and after construction.

Sizes

Panel Size 2' x 4' (610 mm x 1220 mm)

Foam Thickness	Weight (Nom.)
2" (R10)	4.5 lb/ft2
3" (R15)	4.65 lb/ft2
4" (R20)	4.8 lb/ft2

Edge Treatment
Tongue and groove on 4' edge and butt edge on 2' side.

Technical Data

APPLICABLE STANDARDS

- ASTM C578-01 - Standard Specification for Rigid Cellular Polystyrene Thermal Insulation
  - ASTM C518 - Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus
  - ASTM D1621 - Standard Test Method For Compressive Properties of Rigid Cellular Plastics
  - ASTM D2842 - Standard Test Method For Water Absorption of Rigid Cellular Plastics
  - ASTM E96 - Standard Test Method For Water Vapour Transmission of Materials
  - ASTM D696 - Standard Test Method For Coefficient of Linear Thermal Expansion of Plastics Between -30° and 30°C with a Vitreous Silica Dilatometer
- CAN / ULC S701-05 - Standard for Thermal Insulation, Polystyrene Boards and Pipe Covering (Type 4)
- CSA A23.2-09 - Concrete Materials and methods of Concrete Concrete Construction/Test methods and Standard Practices for Concrete

NRC Evaluation Listing
CCMC 04888-L

Table 1.

Physical Properties of CTI® Roof Panels	
Property and Test Method	**Value**
Thermal Resistance per inch (25.4 mm), ASTM C518, R-Value (RSI)* min.	5.0 (0.88)
Foam Compressive Strength-Vertical**, ASTM D1621, psi (kPa), min.	35 (241)
Mortar Compressive Strength (at 28 days), CSA A23.2-09, psi (MPa), min.	4600 (32)
Water Absorption, ASTM D2842, % by volume, max.	0.7
Water Vapour Permeance, ASTM E96, perm, permSI, max.	1.0 (60)
Maximum Use Temperature, °F (°C)	165 (74)
Coefficient of Linear Thermal Expansion, ASTM D696, in / in • °F (mm / m • °C)	3.5×10^{-5} (6.3×10^{-2})

* The higher the R-Value or RSI, the greater the insulating power.
** Vertical compressive strength is measured at 10% deformation or at yield, whichever occurs first.

Manufactured Using DOW Products

PHYSICAL / CHEMICAL PROPERTIES

CTI® roof panels exhibit physical properties as indicated in Table 1 when tested as represented. For chemical resistance properties of STYROFOAM™ brand foam insulation, see Table 2.

ENVIRONMENTAL DATA

CTI® roof panels are hydrochlorofluorocarbon (HCFC) free with zero ozone-depletion potential. **CTI®** roof panels will help achieve energy efficiency with a product that is itself produced in an environmentally responsible way.

CTI® roof panels are reusable in many applications.

FIRE PROTECTION

CTI® roof panels are combustible; protect from high heat sources. For more information, consult product Material Safety Data Sheet (MSDS).

Installation

CTI® roof panels are strong, lightweight, and easy to install. Contact your local Tech-Crete distributor for more specific instructions on installation of **CTI®** roof panels in a protected membrane roof assembly. A detailed installation guide is also available through your local Tech-Crete distributor or online at:

tech-crete.com/downloads

CTI® roof panels should be stored under cover (warehouse) until installed.

Availability

CTI® roof panels are available through an extensive network of distributors. For product availability or for the name of your local Tech-Crete distributor, call 250.832.9705 or visit our website at: tech-crete.com

Warranty

For warranty details, visit our website at tech-crete.com.

Maintenance

CTI® roof panels are self-ballasted, lightweight insulated roof panels. They can accept occasional maintenance foot traffic, but they are not intended for use as a patio, plaza deck or construction platform. A regularly scheduled preventative maintenance program of inspection and cleaning will ensure long term durability of all roof components.

Technical Services

Tech-Crete Processors can provide technical information to help address questions regarding **CTI®** roof panels.

Table 2.

Chemical Resistance* of STYROFOAM™ Brand Foam Insulation			
Acid, inorganic, weak**	Excellent	Salts	Excellent
Acid, inorganic, strong**	Excellent	Insecticides	Not recommended
Acid, organic, weak**	Excellent	Kerosene	Poor
Acid, organic, strong**	Good	Mineral oil USP	Excellent
Bases	Excellent	Naphtha (VMP)	Not recommended
Alcohols, including isopropyl alcohol	Excellent	Turpentine	Not recommended
Methyl ethyl ketone	Not recommended	Beer	Good
Polyglycols, including propylene glycol	Excellent	Gasoline	Not recommended
Hydrocarbons	Not recommended	Fruit Juices	Good

* Explanation of ratings:

Excellent = The plastic was unaffected for the duration of the test.
Good = A very slight clouding or discolouration of the plastic
Poor = Considerable change in plastic during exposure, possible etching, discolouration, dimensional or weight changes.
Not recommended = Severe attack of the plastic. Became soft and unusable after a few hours of exposure.

** The concrete top can be adversly affected by exposure to acidic environments.

NOTE: This table should be used as a guide only. For design purposes, specific test data on the intended application may be needed.

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Rev. April 2, 2013

SRI® Solar Reflective Insulated Roof Panels

Using CAN/ULC - S701 Type 4 Insulation

PRODUCT DATA

Manufacturer

Tech-Crete Processors Ltd.
2930 - 13th Avenue SW
Salmon Arm, BC V1E 3K1
Phone: 250.832.9705
tech-crete.com

Product Description

BASIC USES

Solar Reflective Insulated (SRI®) Roof Panels are self-ballasted and designed for loose laid installation above waterproofing or roofing membranes in a protected membrane roof (PMR) assembly.

SRI® roof panels consist of 2" (50 mm), 3" (75 mm), or 4" (100 mm) STYRO-FOAM™ brand foam insulation with 3/8" (10 mm) (nominal) thick latex-modified, solar reflective white concrete topping. Since the white concrete topping maintains its solar reflectivity throughout its entire thickness, there is no reflective coating to maintain or reapply. A simple rinse or light pressure wash will rejuvenate the solar reflectivity. They provide insulation and ballast in an easy-to-install product that can be handled by one person. They are ideal for new and retrofit applications where dead load roof weight is a concern. With tongue and groove sides, **SRI®** roof panels can be easily removed and reused after membrane inspection or to construct additional stories in a vertical expansion project.

SRI® roof panels keep the roof membrane at a steady temperature, minimizing the harmful effects of freeze-thaw cycles, weathering, UV degradation, and physical damage during and after construction.

SRI® Roof Panels are designed to minimize the heat island effect of low-sloped roofs and qualify for LEED® SS credit 7.2, Heat Island Effect: Roof.

Sizes

Panel Size 2' x 4' (610 mm x 1220 mm)

Foam Thickness	**Weight (Nom.)**
2" (R10)	4.5 lb/ft2
3" (R15)	4.65 lb/ft2
4" (R20)	4.8 lb/ft2

Edge Treatment
Tongue and groove on 4' edge and butt edge on 2' side.

Technical Data

APPLICABLE STANDARDS

- ASTM C578-01 - Standard Specification for Rigid Cellular Polystyrene Thermal Insulation
  - ASTM C518 - Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus
  - ASTM D1621 - Standard Test Method For Compressive Properties of Rigid Cellular Plastics
  - ASTM D2842 - Standard Test Method For Water Absorption of Rigid Cellular Plastics
  - ASTM E96 - Standard Test Method For Water Vapour Transmission of Materials
  - ASTM D696 - Standard Test Method For Coefficient of Linear Thermal Expansion of Plastics Between -30° and 30°C with a Vitreous Silica Dilatometer
  - ASTM C1549 - Standard Test Method For Determination of Solar Reflectance Near Ambient Temperature Using a Portable Solar Reflectometer
  - ASTM E1980 - Standard Test Method For Calculating Solar Reflectance Index of Horizontal and Low-Sloped Opaque Surfaces
- CAN / ULC S701-05 - Standard for Thermal Insulation, Polystyrene Boards and Pipe Covering (Type 4)
- CSA A23.2-09 - Concrete Materials and methods of Concrete Concrete Construction/Test methods and Standard Practices for Concrete

NRC Evaluation Listing
CCMC 04888-L

Table 1.

Physical Properties of SRI® Roof Panels	
Property and Test Method	**Value**
Thermal Resistance per inch (25.4 mm), ASTM C518, R-Value (RSI)* min.	5.0 (0.88)
*Foam Compressive Strength-Vertical**, ASTM D1621, psi (kPa), min.*	35 (241)
Mortar Compressive Strength (at 28 days), CSA A23.2-09, psi (MPa), min.	4600 (32)
Water Absorption, ASTM D2842, % by volume, max.	0.7
Water Vapour Permeance, ASTM E96, perm, permSI, max.	1.0 (60)
Maximum Use Temperature, °F (°C)	165 (74)
Solar Reflectance Index, ASTM E1980	≥78
Coefficient of Linear Thermal Expansion, ASTM D696, in / in • °F (mm / m • °C)	3.5×10^{-5} (6.3×10^{-2})

* The higher the R-Value or RSI, the greater the insulating power.
** Vertical compressive strength is measured at 10% deformation or at yield, whichever occurs first.

Manufactured Using DOW® Products

PHYSICAL / CHEMICAL PROPERTIES

SRI® roof panels exhibit physical properties as indicated in Table 1 when tested as represented. For chemical resistance properties of STYROFOAM™ brand foam insulation, see Table 2.

ENVIRONMENTAL DATA

SRI® roof panels are hydrochlorofluorocarbon (HCFC) free with zero ozone-depletion potential. **SRI®** roof panels will help achieve energy efficiency with a product that is itself produced in an environmentally responsible way.

SRI® roof panels are reusable in many applications.

FIRE PROTECTION

SRI® roof panels are combustible; protect from high heat sources. For more information, consult product Material Safety Data Sheet (MSDS).

Installation

SRI® roof panels are strong, light weight, and easy to install. Contact your local Tech-Crete distributor for more specific instructions on installation of **SRI®** roof panels in a protected membrane roof assembly. A detailed installation guide is also available through your local Tech-Crete distributor or online at:

tech-crete.com/downloads

SRI®roof panels should be stored under cover (warehouse) until installed.

Availability

SRI® roof panels are available through an extensive network of distributors. For product availability or the name of your local Tech-Crete distributor, call 250.832.9705 or visit our website at: tech-crete.com

Warranty

For warranty details, visit our website at tech-crete.com.

Maintenance

SRI® roof panels are self-ballasted, lightweight insulated roof panels. They can accept occasional maintenance foot traffic, but they are not intended for use as a patio, plaza deck or construction platform. A regularly scheduled maintenance program of inspection and cleaning will ensure long term durability of all roof components. Cleaning may be required to maintain Solar Reflectance Index values.

Technical Services

Tech-Crete Processors can provide technical information to help address questions regarding **SRI®** roof panels.

Table 2.

Chemical Resistance* of STYROFOAM™ Brand Foam Insulation			
Acid, inorganic, weak**	Excellent	Salts	Excellent
Acid, inorganic, strong**	Excellent	Insecticides	Not recommended
Acid, organic, weak**	Excellent	Kerosene	Poor
Acid, organic, strong**	Good	Mineral oil USP	Excellent
Bases	Excellent	Naphtha (VMP)	Not recommended
Alcohols, including isopropyl alcohol	Excellent	Turpentine	Not recommended
Methyl ethyl ketone	Not recommended	Beer	Good
Polyglycols, including propylene glycol	Excellent	Gasoline	Not recommended
Hydrocarbons	Not recommended	Fruit Juices	Good

* Explanation of ratings:

Excellent = The plastic was unaffected for the duration of the test.
Good = A very slight clouding or discolouration of the plastic
Poor = Considerable change in plastic during exposure, possible etching, discolouration, dimensional or weight changes.
Not recommended = Severe attack of the plastic. Became soft and unusable after a few hours of exposure.

** The concrete top can be adversly affected by exposure to acidic environments.

NOTE: This table should be used as a guide only. For design purposes, specific test data on the intended application may be needed.

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Rev. April 2, 2013

CFI® Concrete Faced Insulated Wall Panels

Using CAN/ULC - S701 Type 4 Insulation

PRODUCT DATA

Manufacturer

Tech-Crete Processors Ltd.
2930 - 13th Avenue SW
Salmon Arm, BC V1E 3K1
Phone: 250.832.9705
tech-crete.com

Product Description

Concrete Faced Insulated (CFI®) Wall Panels are a pre-finished, "One-Step" exterior perimeter foundation or low-rise wall insulation panel consisting of STYROFOAM™ brand foam insulation with a factory applied 5/16" (8 mm) (nominal) thick latex-modified concrete facing, with a slightly broomed finish. **CFI®** wall panels are installed using specially designed galvanized steel mounting clips, included with each shipment.

BASIC USES

CFI® wall panels provide highly efficient insulation and a durable finish in a one-step process. The panels are intended for use below and above-grade, against concrete, block or brick, exposed to a height not to exceed 36 ft (11 m).

CFI® wall panels are an appropriate perimeter insulation for industrial, commercial and institutional new and retrofit foundation or low-rise wall applications. The one-step process makes installation easy, in any weather, with moderately skilled labour.

CFI® wall panels can be easily removed and reused in expansion projects.

Sizes

Panel Size 2' x 4' (610 mm x 1220 mm)

Foam Thickness	Panel Thickess
2" (R10)	2 5/16"
3" (R15)	3 5/16"
4" (R20)	4 5/16"

Edge Treatment
Tongue and groove on 4' edge and butt edge on 2' side.

Technical Data

APPLICABLE STANDARDS

- ASTM C578-01 - Standard Specification for Rigid Cellular Polystyrene Thermal Insulation
  - ASTM C518 - Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus
  - ASTM D1621 - Standard Test Method for Compressive Properties of Rigid Cellular Plastics
  - ASTM E96 - Standard Test Method for Water Vapour Transmission of Materials
  - ASTM D696 - Standard Test Method for Coefficient of Linear Thermal Expansion of Plastics Between -30° and 30°C with a Vitreous Silica Dilatometer
  - ASTM D2842 - Standard Test Method for Water Absorption of Rigid Cellular Plastics
- CAN / ULC S701-05 - Standard for Thermal Insulation, Polystyrene Boards and Pipe Covering (Type 4)
- CSA A23.2-09 - Concrete Materials and methods of Concrete Concrete Construction/Test methods and Standard Practices for Concrete

NRC Evaluation Listing
CCMC 04888-L

ENVIRONMENTAL DATA

CFI® wall panels are hydrochlorofluorocarbon (HCFC) free with zero ozone-depletion potential. **CFI®** wall panels will help achieve energy efficiency with a product that is itself produced in an environmentally responsible way.

CFI® wall panels are reusable in many applications.

Table 1.

Physical Properties of CFI® Wall Panels	
Property and Test Method	**Value**
Thermal Resistance per inch (25.4 mm), ASTM C518, R-Value (RSI)* min.	5.0 (0.88)
*Foam Compressive Strength-Vertical**, ASTM D1621, psi (kPa), min.*	35 (241)
Mortar Compressive Strength (at 28 days), CSA A23.2-09, psi (MPa), min.	4600 (32)
Water Absorption, ASTM D2842, % by volume, max.	0.7
Water Vapour Permeance, ASTM E96, perm, permSI, max.	1.0 (60)
Maximum Use Temperature, °F (°C)	165 (74)
Coefficient of Linear Thermal Expansion, ASTM D696, in / in • °F (mm / m • °C)	3.5×10^{-5} (6.3×10^{-2})

* The higher the R-Value or RSI, the greater the insulating power.
** Vertical compressive strength is measured at 10% deformation or at yield, whichever occurs first. *Panel is in horizontal position during testing.*

Manufactured Using DOW Products

PHYSICAL / CHEMICAL PROPERTIES

CFI® wall panels exhibit physical properties as indicated in Table 1 when tested as represented. For chemical resistance properties of STYROFOAM™ brand foam insulation, see Table 2.

Table 2.

Chemical Resistance* of STYROFOAM™ Brand Foam Insulation	
Acid, inorganic, weak**	Excellent
Acid, inorganic, strong**	Excellent
Acid, organic, weak**	Excellent
Acid, organic, strong**	Good
Bases	Excellent
Alcohols, including isopropyl alcohol	Excellent
Methyl ethyl ketone	Not recommended
Polyglycols, including propylene glycol	Excellent
Hydrocarbons	Not recommended
Salts	Excellent
Insecticides	Not recommended
Kerosene	Poor
Mineral oil USP	Excellent
Naphtha (VMP)	Not recommended
Turpentine	Not recommended
Beer	Good
Gasoline	Not recommended
Fruit Juices	Good

* Explanation of ratings:
Excellent = The plastic was unaffected for the duration of the test.
Good = A very slight clouding or discolouration of the plastic
Poor = Considerable change in plastic during exposure, possible etching, discolouration, dimensional or weight changes.
Not recommended = Severe attack of the plastic. Became soft and unusable after a few hours of exposure.

** The concrete top can be adversly affected by exposure to acidic environments.

NOTE: This table should be used as a guide only. For design purposes, specific test data on the intended application may be needed.

FIRE PROTECTION

CFI® wall panels are combustible; protect from high heat sources. For more information consult product Material Safety Data Sheet (MSDS).

Table 3.

Surface Burning Characteristics of CFI® wall panels in accordance with CAN/ULC-S102-10
Flame Spread Classification = 10
Smoke Developed Classification = 160

Additional Technical Tests

WALL PANEL SYSTEM FIRE TEST

- Meets Uniform Building Code (UBC) 17-5 ('Room Fire Test Standard for Interior of Foam Plastic Systems'. Criteria is to maintain coverage of foam substrate up to 8' from interior corner, over the duration of the test.)
- Equivalent to current UL 17-15 and UBC 97 revised

NEGATIVE WIND LOAD AND GRAVITY SHEAR LOAD TESTS

- Clips spaced at 2 ft along each horizontal joint can safely carry the wall panel vertical weight and support the panel under negative wind pressures of up to 25 psf, with a safety factor of 2.
- If greater wind pressures are anticipated, additional clips may be placed to provide the additional strength.

TENSILE BOND STRENGTH OF MORTAR FACING

- Remains intact after 1000 freeze / thaw cycles using ASTM C666-B (equivalent to approximately 25 Canadian winters)

IMPACT RESISTANCE - ASTM G-14 "Up and down method"

- **CFI**® wall panels have an impact strength equal to or greater than that of standard 8" thick concrete block, tested in the centre of a cavity.

Handling & Installation

CFI® wall panels should be stored under cover (warehouse) until installed.

CFI® wall panels can be installed vertically or horizontally. Vertical installation is recommended for perimeter foundation applications. Horizontal installation is recommended for low-rise wall applications. It is recommended that any masonry irregularities or jagged surfaces on the foundation or exterior wall be removed prior to installation. Shaping the foam side of the panel may be necessary to ensure the panel sits flat against the wall. This procedure will reduce or eliminate cracking caused by uneven wall surfaces. Walls may require air and/or vapor barrier and foundations should be properly damp-proofed below grade.

Each shipment of **CFI**® wall panels includes specially designed galvanized steel mounting clips and fasteners. For additional clips and fasteners, contact your local Tech-Crete distributor or call 250.832.9705.

Contact your local Tech-Crete distributor for more specific instructions on the installation of **CFI**® wall panels. A detailed installation guide is also available through your local Tech-Crete distributor or online at: tech-crete.com/downloads

Availability

CFI® wall panels and clips are available through an extensive network of distributors. For product availability or for the name of your local Tech-Crete distributor, call 250.832.9705 or visit our website at tech-crete.com.

Warranty

For warranty details, visit our website at tech-crete.com.

Technical Services

Tech-Crete Processors Ltd. can provide technical information to help address questions regarding **CFI**® wall panels.

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Rev. April 2, 2013

Tech-Crete Processors Ltd.®

INSULATED PANEL PRODUCTS

est. 1983

University of Calgary

INSTALLED IN 1986

Tech-Crete's CTI® roof panels prove themselves after 25 years of Alberta winters

The Kinesiology building re-roof project at the University of Calgary was able to re-use a significant portion of the CTI® roof panels manufactured by Tech-Crete Processors. Originally installed in 1986, the panels were carefully removed to allow access to the underlying components, and then re-installed for use as originally intended; insulation, ballast and protection.

As part of a Protected Membrane Roof (PMR) assembly, CTI® roof panels are self-ballasted insulated panels consisting of a durable concrete topping on a panel of highly efficient STYROFOAM™ brand foam insulation. With insulation values ranging from R10 (2") to R20 (4"), CTI® roof panels are an effective, reusable, solution for Protected Membrane roofs in all climates.

Manufactured Using DOW® Products

University of Calgary

RE-INSTALLED IN 2011

Tech-Crete Processors Ltd.

Made in Canada

INSULATED PANEL PRODUCTS

est. 1983

Edmonton Clinic Health Academy
LEED® Silver (Targeted)

*LEED*ing the way in Solar Reflective roofing solutions...

Tech-Crete's SRI® roof panels are self ballasted, solar reflecting insulating panels designed for use in a Protected Membrane Roof (PMR) assembly. With its factory applied white concrete topping, SRI® roof panels offer superior insulation, long term durability, membrane protection and solar reflectivity in one easy step.

- Extends membrane life by protecting against:
  - Temperature extremes, UV degradation, and hail damage
  - Occasional roof maintenance foot traffic
  - Mechanical damage (dropped tools etc.)
  - Vandalism and environmental elements (birds, weather, etc.)
- Since the white concrete topping maintains its solar reflectivity throughout its entire thickness, there is no reflective coating to maintain or reapply
- Can be rinsed or pressure washed without the risk of membrane damage
- Designed to minimize the heat island effect of low-sloped roofs and qualify for LEED® SS credit 7.2, Heat Island Effect: Roof

The unique feature of the SRI® roof panel is the white reflective concrete topping. As the environment naturally weathers any exposed roof surface, it can slowly degrade reflective membranes and remove reflective coatings. The topping on the SRI® roof panel is a solid 3/8 inch white reflective concrete. As this topping weathers, it simply exposes more of the same underlying white reflective concrete.

Manufactured Using DOW® Products

Potential LEED® CANADA Credits

PRODUCT	CTI® Roof	SRI® Roof	CFI® Wall
Sustainable Sites (SS)			
Credit 7.2 - Heat Island Effect: Roof	-	1	-
Energy & Atmosphere (EA)			
Credit 1 - Optimize Energy Performance	1-19	1-19	1-19
Materials & Resources (MR)			
Credit 1.1 - Building Reuse	1-3	1-3	1-3
Credit 2 - Construction Waste Mgt.	1-2	1-2	1-2
Maintain Existing Walls, Floors & Roof			
Credit 3 - Materials Reuse	1-2	1-2	1-2
Credit 5 - Regional Materials	1-2	1-2	1-2
Indoor Environmental Quality (IEQ)			
Credit 3.1 - Construction Indoor Air Quality Management Plan: During Construction	1	1	1
Credit 7.1 - Thermal Comfort: Design	1	1	1
Innovation in Design (ID)			
Credit 1 - Innovation in Design	1	1	1
Regional Priority (RP)			
Credit 1 - Durable Building	1	1	1
Credit 2 - Regional Priority Credit	-	1-3	1-3

Made in Canada

FACT...

Tech-Crete Insulated Panels are an environmentally sound investment.

All Products:

- Reduce Energy Costs
- Are Reusable
- Are Produced in an environmentally responsible way

CTI® Concrete Topped Insulated Roof Panels

SRI® Solar Reflective Insulated Roof Panels

CFI® Concrete Faced Insulated Wall Panels

Alberta Research Council, Edmonton, AB
CTI® Roof Panels

Mount Royal College, Calgary, AB
SRI® Roof Panels

H2O Adventure & Fitness Centre, Kelowna, BC
CFI® Wall Panels

YOUR REPRESENTITIVE (Western Canada)

InterCoast BUILDING SOLUTIONS

John Riley, C.P.M.R.
President

Suite 474, 800 - 15355 24th Ave
Surrey, BC V4A 2H9
www.icbuildingsolutions.com

Phone. 604.593.5601
Cell. 778.867.6125
Fax. 604.593.7424
Toll Free. 1.877.386.7794
Email. john@icbuildingsolutions.com

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Tech-Crete Processors Ltd.®

2930 - 13th Avenue SW • Salmon Arm, BC • V1E 3K1 • 250.832.9705 • tech-crete.com