BUILDING PRODUCTS LISTING PROGRAM

Class: Insulated Concrete Forms (ICF)

Customer: LOGIX Insulated Concrete Forms, Ltd.

Location: Vancouver, BC www.logixicf.com Website:

Listing No. B1031-1

Effective Date: September 27, 2010 Last Revised: August 24, 2015

Expires: N/A

Product: LOGIX Flat Wall Insulating Concrete Forms (ICF)

Standard(s): ASTM E2634 "Standard Specification for Flat Wall Insulating Concrete

Form (ICF) Systems".

ASTM D635 "Standard Test Method for Rate of Burning and/or Extent and

Time of Burning of Plastics in a Horizontal Position".

ASTM D1929 "Standard Test Method for Determining Ignition

Temperature of Plastics"

ASTM D1761 "Standard Test Methods for Mechanical Fasteners in Wood".

CAN/ULC S717.1 "Standard for Flat Wall Insulating Concrete Form (ICF)

Systems".

CAN/ULC S701 "Thermal Insulation, Polystyrene, Boards and Pipe

Covering".

CAN/ULC S102.2 "Standard Method of Test for Surface Burning"

Characteristics of Flooring, Floor Coverings, and Miscellaneous Materials

and Assemblies".

ASTM C578 "Standard Specification for Rigid, Cellular Polystyrene

Thermal Insulation".

ASTM E84 - "Standard Test Method for Surface Burning Characteristics of

Building Materials".

UBC 26-3 "Room Fire Test Standard For Interior of Foam Plastic

Systems".

Revision Date: April 17, 2014

CAN/ULC S101 "Standard Methods of Fire Endurance Tests of Building

Construction and Materials".

ASTM E119 / ANSI / UL 263 "Standard Test Methods for Fire Tests of

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Building Construction and Materials".

Label:

Product is marked with labels supplied by LOGIX Insulated Concrete Forms, Ltd. The label includes the manufacturer's name, trademark, or other recognized symbol of identification, the product model designation, month and year of manufacture or equivalent, QAI logo with the 'US' and "C" identifier, and CAN/ULC S701 Type 2, ASTM C578 Type II, ASTM E84 FSI and SDI Rating, and CAN/ULC S102.2 FSI and SDI Rating. Labels are applied to palletized finished products to ensure visibility on the jobsite.

Ratings:

LOGIX Insulated Concrete Forms are Type II expanded polystyrene of nominal 1.5 lbs/ft³ density, complying with ASTM E2634 for use as flat walled insulating concrete forms.

LOGIX ICF cross ties are minimum CC2 classification per ASTM D635, with a spontaneous ignition temperature of greater than 650°F per ASTM D1929.

The following outlines LOGIX ICF test results determined in accordance with the noted standards.

LOGIX ICF Fastener Resistance Ratings per ASTM D1761.

FASTENER	ALLOWABLE WITHDRAWAL		ALLOWABLE LATERAL SHEAR	
	lbs	kg	lbs	kg
#6 1 1/4 inch Length Coarse Thread Drywall Screw	23	10	59	26

LOGIX ICF Type 2 Specifications per CAN/ULC S701

PROPERTY	LOGIX SPECIFICATION
Thermal Resistance	Minimum 0.70
m ² *°C/W at 25 mm Thickness	
Water Vapour Permeance	Maximum 200
Ng/Pa*s*m ² at 25 mm Thickness	
Dimensional Stability	Maximum 1.5
% Linear Change	
Flexural Strength	Minimum 240
kPa	
Water Absorption	Maximum 4.0
% Volume	
Compressive Strength	Minimum 110
kPa at 10% Deformation	

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Limiting Oxygen Index	Minimum 24
%	

LOGIX ICF Type II Specifications per ASTM C578

PROPERTY	LOGIX SPECIFICATION
Compressive Resistance	Minimum 15.0
psi at Yield or 10% Deformation	
Thermal Resistance	Minimum 4.0
F*ft ² *h/Btu at 1.00 Inch	
Thickness	
Flexural Strength	Minimum 35.0
psi	
Water Vapor Permeance	Maximum 3.5
Perms at 1.00 Inch Thickness	
Water Absorption	Maximum 3.0
% Volume	
Dimensional Stability	Maximum 2.0
% Change Dimensions	
Oxygen Index	Minimum 24.0
% Volume	
Density	Minimum 1.35
lbs/ft ³	

LOGIX ICF Surface Burning Characteristics per CAN/ULC S102.2

LOGIX COMPONENT	DENSITY	MAXIMUM THICKNESS	FLAME SPREAD INDEX (FSI)	SMOKE DEVELOPED INDEX (SDI)
Expanded Polystyrene (EPS Panel)	22 – 29 kg/m3	100 mm Maximum	≤ 210	≥ 500

LOGIX ICF Surface Burning Characteristics per ASTM E841

LOGIX COMPONENT	DENSITY	MAXIMUM THICKNESS	FLAME SPREAD INDEX (FSI)	SMOKE DEVELOPED INDEX (SDI)
Expanded Polystyrene (EPS Panel)	1.35 – 1.80 lbs/ft³	4.0 Inches Maximum	≤ 75	≤ 450

¹Ceiling Measurement Only. This measurement is conducted through determination of flame spread index and smoke developed index with the removal of any contribution of molten materials ignited on the floor of the tunnel assembly.

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LOGIX UBC 26-3 Configuration

Meets requirements with $\frac{1}{2}$ inch thickness gypsum fastened with 2 $\frac{1}{4}$ inch length standard drywall screws at 12 inch on center. Fasteners must be anchored into LOGIX ICF web ties.

QAI Design Listing B1031-1 LOGIX Insulated Concrete Form (ICF) – CAN/ULC S101 / ASTM E119 Load Bearing Fire-Resistance-Rated Wall Assembly¹

QAI DESIGN	ASSEMLY RATING	MINIMUM CONCRETE CORE	MINIMUM CONCRETE CORE
LISTING	(Hours)	THICKNESS (MM)	THICKNESS (INCHES)
	2	102	4
B1031-1	3	159	6.25
	4	204	8

Note:

Final acceptance of the product in the intended application is to be determined by the authority having jurisdiction.

Product is to be installed in accordance with the manufacturer's published installation instructions by qualified installing personnel.

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