VANCOUVER, BC: 877.461.8378 ph. | 604.527.8368 fx.
LOS ANGELES, CA: 909.483.0250 ph. | 909.483.0336 fx.
TULSA, OK: 918.437.8333 ph. | 918.437.8487 fx.
TORONTO, ON 905.605.5444
WEBSITE: WWW.QAI.ORG

BUILDING PRODUCTS LISTING PROGRAM

Customer: Alleguard
Class: Insulating Concrete Forms (ICF)
Location: Brentwood, TN
Website: www.alleguard.com

Listing No. B1061-2
Project No. B1061-2 Edition 4

Effective Date: May 7, 2014
Last Revised Date: December 10, 2024
Expires: N/A

Standards:

CAN/ULC-S717.1-2017	*Standard for Flat Wall Insulating Concrete Form (ICF) Systems*.
ASTM E2634-2018	*Standard Specification for Flat Wall Insulating Concrete Form (ICF) Systems*
CAN/ULC S701.1-2017	*Thermal Insulation, Polystyrene, Boards and Pipe Covering*.
ASTM C578-2023	*Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation*.
CAN/ULC S102.2-2018	*Standard Method of Test for Surface Burning Characteristics of Flooring, Floor Coverings, and Miscellaneous Materials and Assemblies*.
ASTM E84-21a	*Standard Test Method for Surface Burning Characteristics of Building Materials*.
ASTM D635-2022	*Standard Test Method for Rate of Burning and/or Extent and Time of Burning of Plastics in a Horizontal Position*.
ASTM D1929-2020	*Standard Test Method for Determining Ignition Temperature of Plastics*.
ASTM E119-2020	*Standard Test Methods for Fire Tests of Building Construction and Materials*.
CAN/ULC S101-2014	*Standard Methods of Fire Endurance Tests of Building Construction and Materials*.
UL 1715-2022	*Fire Test of Interior Finish Materials*.

Product: AmDECK Insulated Concrete Floor Systems
Amvic Standard Insulated Concrete Forms (ICF)
Amvic Plus 3.30 Insulated Concrete Forms (ICF)

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Markings: Finished product is marked with a permanent label containing the following information:

a) Manufacturers name or recognized trademark
b) Product model designation.
c) Date of manufacture.
d) CAN/ULC-S102 Flame Spread Index and Smoke Developed Index (FSI ≤ 290, SDI ≥ 500), ASTM E84 Flame Spread Index and Smoke Developed Index (FSI ≤ 25, SDI ≤ 450)
e) CAN/ULC-S701.1 Type 2, ASTM C578 Type II
f) QAI logo shown here:

Ratings: AmDECK complies with CAN/ULC S701.1 as Type 2 thermal insulation, and per ASTM C578 as Type II thermal insulation.

Amvic Standard ICF and Amvic Plus 3.30 ICF comply with CAN/ULC S717.1 and ASTM E2634 as flat walled, insulated concrete forms of Type 2 (CAN/ULC S701.1) / Type II (ASTM C578) insulation.

Amvic Standard ICF and Amvic Plus 3.30 ICF cross ties are classified as CC2 when evaluated to ASTM D635 rate of burning.

Amvic Standard ICF and Amvic Plus 3.30 ICF EPS thermal insulation and cross tie components have a spontaneous ignition temperature > 650°F (363°C) when evaluated to ASTM D1929.

AmDECK / AMVIC Standard / AMVIC Plus 3.30 ICF Type 2 Specifications per CAN/ULC S701.1:

PROPERTY	SPECIFICATION
Thermal Resistance at 25 mm Thickness, m^2*^oC/W	Minimum 0.70
Water Vapour Permeance at 25 mm Thickness, $Ng/Pa*s*m^2$	Maximum 200
Dimensional Stability, % Linear Change	Maximum 1.5
Flexural Strength, kPa	Minimum 240
Water Absorption, % Volume	Maximum 4.0
Compressive Strength at Yield or 10% Deformation, kPa	Minimum 110
Limiting Oxygen Index %	Minimum 24

AmDECK / AMVIC Standard / AMVIC Plus 3.30 ICF Type II Specifications per ASTM C578:

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

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AmDECK / AMVIC Standard / AMVIC Plus 3.30 ICF Surface Burning Characteristics per CAN/ULC S102.2:

AMVIC COMPONENT	DENSITY	MAXIMUM THICKNESS	FLAME SPREAD INDEX (FSI)	SMOKE DEVELOPED INDEX (SDI)
Expanded Polystyrene (EPS Panel)	22 – 29 kg/m3	100 mm Maximum	≤ 290	≥ 500

AmDECK / AMVIC Standard / AMVIC Plus 3.30 ICF Surface Burning Characteristics per ASTM E84[1]:

AMVIC COMPONENT	DENSITY	MAXIMUM THICKNESS	FLAME SPREAD INDEX (FSI)	SMOKE DEVELOPED INDEX (SDI)
Expanded Polystyrene (EPS Panel)	1.35 – 1.80 lbs/ft^3	4.0 Inches Maximum	≤ 25	≤ 450

[1]Ceiling 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.

AMVIC Standard ICF Allowable Fastener Loads

FASTENER	ALLOWABLE WITHDRAWAL		ALLOWABLE LATERAL SHEAR	
	lbs	kg	lbs	kg
#6 Type S Fine Thread Drywall Screw	27	12	55	25
#6 Type W Coarse Thread Drywall Screw	29	13	73	33
#8 Type W Coarse Thread Drywall Screw	35	16	85	39

AMVIC Plus 3.30 Allowable Fastener Loads

FASTENER	ALLOWABLE WITHDRAWAL		ALLOWABLE LATERAL SHEAR	
	lbs	kg	lbs	kg
#6 Type S Fine Thread Drywall Screw	22	10	40	18
#6 Type W Coarse Thread Drywall Screw	24	11	43	20
#8 Type W Coarse Thread Drywall Screw	23	11	63	29
Number 8 Wood Screw	26	12	52	24

AMVIC Standard / AMVIC Plus 3.30 ICF UL 1715 Compliant Assembly: 12.7 mm (½ inch) thickness gypsum board complying with ASTM C1396 fastened with 38 mm (1-1/2 inch) length standard drywall screws spaced at maximum 305 mm (12 inches) on center vertically and 406 mm (16 inches horizontally). Fasteners must be anchored into AMVIC Standard or AMVIC Plus 3.30 ICF web ties. Mudding and taping per ASTM C840 is optional for any finish level.

The above system was found to comply with requirements of Section 2603.9 of the 2021 International Building Code.

AMVIC Standard ICF / AMVIC Plus 3.30 ICF CAN/ULC S101, UL 263, ASTM E119 Fire-Resistance Rated Load-Bearing Wall Assemblies[1]

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QAI Design #	Wall Type	Wall Thickness Inches (mm)	Rating
B1061-2a	Amvic ICF with interior ½-inch (13 mm) gypsum board complying with ASTM C1396 or approved alternate thermal barrier.	6.25 (159)	3-hour

Note 1: The above AMVIC ICF fire-resistance rated wall assemblies allowable load are to be determined by a registered design professional, or authority having jurisdiction in accordance with the applicable codes.

Notes: **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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