DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
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NOTICE OF ACCEPTANCE (NOA)

Johns Manville
717 17th Street
Denver, CO 80202

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.
This product is approved as described herein, and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Johns Manville Roof Insulation Boards

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA renews and revises NOA No. 14-1015.08 and consists of pages 1 through 13.
The submitted documentation was reviewed by Jorge L. Acebo.

ROOFING COMPONENT APPROVAL

Category: Roofing
Sub-Category: Insulation
Type: Insulation and Sheathing Foam Panels
Material: Polyisocyanurate, Perlite and Fiberglass.

TYPICAL PHYSICAL PROPERTIES:

Product	Property	Test Method	Typical Result
ENRGY 3 25 PSI, ValuTherm 25 PSI, R-Panel 25 PSI *Manuf. Location: #1*	Density	D1622	2.8 pcf
	Compressive Strength	D1621	25 psi
	Water Absorption	C209	< 1% by volume (2 hrs)
	Water Vapor Permeance	E96	< 1 perm
	Dimensional Stability: 7 days @ 158°F & 90-100% RH	D2126	-2.0% ≤ result ≤ 2.0 %
	Surface Buring Characteristics	E84	Flame Spread: 25 Smoke Developed: 100
ENRGY 3, ValuTherm, R-Panel *Manuf. Location: #1*	Density	D1622	≥2 pcf
	Compressive Strength	D1621	≥20 psi
	Dimensional Stability: 7 days @ 158°F & 90-100% RH	D2126	-2.0 % ≤ result ≤ 2.0 %
	Water Absorption	C209	≤ 1% by volume (2 hrs)
	Water Vapor Permeance	E96	≤ 1 perm
	Surface Buring Characteristics	E84	Flame Spread: 30 Smoke Developed: 185
ENRGY 3.E *Manuf. Location: #4*	Density	D1622	≥2 pcf
	Compressive Strength	D1621	≥20 psi
	Dimensional Stability: 7 days @ 158°F & 90-100% RH	D2126	-2.0% ≤ result < 2.0 %
	Water Absorption	C209	<1% by volume (2 hrs)
	Water Vapor Permeance	E96	< 1 perm
	Surface Buring Characteristics	E84	Flame Spread: 35 Smoke Developed: 120
ENRGY 3 FR, ENRGY 3 FR 25 PSI *Manuf. Location: #1*	Tensile Strength	C209	500 psf
	Compressive Strength	D1621	Grade 2, 20 psi Grade 3, 25 psi
	Dimensional Stability: 7 days @ 158°F & 90-100% RH	D2126	< 1% by volume (2 hrs)
	Water Absorption	C209	< 1.5 % max.
	Water Vapor Permeance	E96	< 1.5 perm
	Surface Buring Characteristics	E84	Flame Spread: 20-30 Smoke Developed: 55-250

Note: The physical properties listed above are presented at typical average values as determined by accepted ASTM test methods and are subject to normal manufacturing variation. Numerical ratings as determined by ASTM Test Method E-84 are not intended to reflect hazards presented by this or any other material under actual fire conditions.

TYPICAL PHYSICAL PROPERTIES: (CONTINUED)

Product	Property	Test Method	Typical Result
ENRGY 3 Plus™ *Manuf. Location: #1*	Water Absorption	ASTM C 209	< 2%
	Water Vapor Permeability	E96	< 1 perm
	Dimensional Stability:	D2126	< 2%
ENRGY 3 AGF, **ENRGY 3 AGF 25 PSI** **ValuTherm AGF,** **ValuTherm AGF 25 PSI** *Manuf. Location: #1*	Water Absorption	ASTM C 2842	< 3.5%
	Tensile Strength	ASTM D 1623	730 psf
	Compressive Strength	D1621	Grade 2, 20 psi Grade 3, 25 psi
	Water Vapor Permeability	E96	< 1 perm
	Dimensional Stability:	D2126	< 2% linear
ENRGY 3 CGF, **ENRGY 3 CGF 25 PSI,** **ValuTherm CGF,** **ValuTherm CGF 25 PSI** *Manuf. Location: #1*	Water Absorption	ASTM C 2842	< 1.5%
	Tensile Strength	ASTM D 1623	500 psf
	Compressive Strength	D1621	Grade 2, 20 psi Grade 3, 25 psi
	Water Vapor Permeability	E96	< 1.5 perm
	Dimensional Stability: 7 days	D2126	< 2% linear
	Surface Burning Characteristics	E84	Flame Spread: 20-30 Smoke Developed: 55-250
ENRGY 3 Foil Faced, **ENRGY 3 Foil Faced 25 PSI** *Manuf. Location: #1*	Water Absorption	ASTM C 209	1.0% max.
	Compressive Strength	D1621	20 psi nominal
	Water Vapor Permeability	E96	< 1.0 perm
	Dimensional Stability: 7 days	D2126	< 2% linear < 2% crosswise
FescoBoard, **FescoBoard HD** *Manuf. Location: #3*	Water Absorption	ASTM C 209	< 1.5% by volume (2 hrs)
	Compressive Strength	ASTM C 165	5% consolidate: 30 psi 10% consolidate: 40 psi 10% consolidate: 45 psi (HD)
	Laminar Strength	ASTM C 209	7 psi
	Flexural Strength	ASTM C 203	65 psi 80 psi (HD)
	Density	ASTM C 209	9 pcf 10 pcf (HD)
	Linear Expansion	ASTM C 209	< 0.5%

Note: The physical properties listed above are presented at typical average values as determined by accepted ASTM test methods and are subject to normal manufacturing variation. Numerical ratings as determined by ASTM Test Method E-84 are not intended to reflect hazards presented by this or any other material under actual fire conditions.

TYPICAL PHYSICAL PROPERTIES: (CONTINUED)

Product	Property	Test Method	Typical Result
Fesco Foam *Manuf. Location: #1*	Water Absorption	ASTM C 209	< 1.5% by volume (2 hrs)
	Compression Resistance	ASTM C 1621	20 psi nom.
	Laminar Strength	ASTM C 209	4 psi
	Dimensional Stability: 7 days	D2126	< 2% linear
	Water Vapor Permeability	E96	< 1 perm
	Surface Burning Characteristics	E84	Flame Spread: 35 max. Tapered, 25 max.
Retro-Fit Board *Manuf. Location: #3*	Water Absorption	ASTM C 209	2.7% by volume (2 hrs)
	Compressive Strength	ASTM C 165	5% consolidate: 38 psi
	Laminar Strength	ASTM C 209	15 psi
	Flexural Strength	ASTM C 203	88 psi
	Density	ASTM C 209	11-14 pcf
	Linear Expansion	ASTM C 209	< 1%
	Water Vapor Permeability	E96	6 perm-inch
	Surface Buring Characteristics	E84	Flame Spread: 55 Smoke Developed: 70
DuraBoard *Manuf. Location: #3*	Water Absorption	ASTM C 209	3.4% by volume (2 hrs)
	Compressive Strength	ASTM C 165	5% consolidate: 30 psi (1/2" thick) 50 psi (3/4" & 1" thick)
	Laminar Strength	ASTM C 209	> 18 psi (1/2" thick) > 15 psi (3/4" & 1" thick)
	Flexural Strength	ASTM C 203	134 psi
	Density	ASTM C 209	12 pcf
	Linear Expansion	ASTM C 209	< 1%
	Water Vapor Permeability	E96	6 perm-inch
	Surface Buring Characteristics	E84	Flame Spread: 55 Smoke Developed: 70
DuraFoam *Manuf. Location: #1*	Water Absorption	ASTM C 209	< 1.5% by volume (2 hrs)
	Dimensional Stability: 7 days at 158°F and 90-100% RH	ASTM D2126	≤ 2%
	Laminar Strength	ASTM C 209	4 psi
	Compression Resistance	ASTM C 1621	20 psi nom.
	Water Vapor Permeability	E96	< 1 perm
	Surface Burning Characteristics	E84	25 max.

Note: The physical properties listed above are presented at typical average values as determined by accepted ASTM test methods and are subject to normal manufacturing variation. Numerical ratings as determined by ASTM Test Method E-84 are not intended to reflect hazards presented by this or any other material under actual fire conditions.

TYPICAL PHYSICAL PROPERTIES: (CONTINUED)

Product	Property	Test Method	Typical Result
Invinsa Roof Board *Manuf. Location(s): #1 and #2*	Compressive Strength	ASTM D1621	>25 psi
	Dimensional Stability: 7 days at 158°F and 90-100% RH	ASTM D2126	< - 2.0% < result < 2.0%
	Flexural Strength, Modulus of Rupture	ASTM C203	>40 psi
	Flexural Strength, Break Load	ASTM C203	>17 lbf
	Tensile Strength	ASTM C209	>500 psf
	Water Absorption	ASTM C209	<1.5%
	Water Vapor Transmission	ASTM E96	<4.0 perms
	Surface Burning Characteristics	ASTM E84	Flame Spread: 40 Smoke Density: 70
Invinsa FR Roof Board *Manuf. Location: #2*	Compressive Strength	ASTM D1621	150 psi
	Dimensional Stability: 7 days at 158°F and 90-100% RH	ASTM D2126	< 0.6%
	Flexural Strength, Modulus of Rupture	ASTM C1037	1500 psi
	Flexural Strength, Break Load	ASTM C1037	25 lbf
	Water Absorption	ASTM C473	< 1 gram
	Water Vapor Transmission	ASTM E96	< 1 perm
	Water Vapor Permeance	E96	< 1 perm
Invinsa Foam *Manuf. Location: #1*	Compressive Strength	ASTM D1621	20 psi min.
	Dimensional Stability: 7 days at 158°F and 90-100% RH	ASTM D2126	< 2.0%
	Tensile Strength	ASTM D1623	730 psf nominal
	Water Absorption	ASTM C209	< 1.5 %
	Water Vapor Permeance	E96	< 1 perm
RetroPlus Roof Board *Manuf. Location: #3*	Density	ASTM C 209	14 pcf
	Compressive Strength	ASTM D 1621	36 psi
	Tensile Strength	ASTM C 209	1743 lbf/ft^2
	Flexural Strength, Break Load	ASTM C203	176 lbf
	Water Absorption	C209	< 3.5% by volume (2 hrs)
	Water Vapor Transmission	ASTM E96	16.2 perm-in
	Dimensional Stability: 7 days @ 158°F & 90-100% RH	D2126	< 2%
	Surface Burning Characteristics	ASTM E84	Flame Spread: 25 Smoke Density: 15

Note: The physical properties listed above are presented at typical average values as determined by accepted ASTM test methods and are subject to normal manufacturing variation. Numerical ratings as determined by ASTM Test Method E-84 are not intended to reflect hazards presented by this or any other material under actual fire conditions.

TYPICAL PHYSICAL PROPERTIES: (CONTINUED)

Product	Property	Test Method	Typical Result
Nailboard (with plywood only) *Manuf. Location: #1*	Water Absorption	ASTM C209	< 1.0
	Dimensional Stability: 7 days at 158°F and 90±100% RH	ASTM D2126	< 2.0%
	Compressive Strength	ASTM D1621	138 psi
	Water Vapor Transmission	ASTM E96	< 1 perm-in.
	Surface Burning Characteristics	ASTM E84	Flame Spread: 50 max.
Vented Nailboard (with plywood only) *Manuf. Location #1*	Water Absorption	ASTM C209	<1.0
	Dimensional Stability: 7 days at 158 F and 90 – 100% RH	ASTM D2126	<2.0%
	Compressive Strength	ASTM D1621	138 psi
	Water Vapor Transmission	ASTM E96	<1 perm-in.
	Surface Burning Characteristics	ASTM E84	Flame Spread: 50 max.
FesCant™ Plus Cant Strip *Manuf. Location: #3*	Density	ASTM C209	12 pcf
	Compressive Strength 5% Consolidation 10% Consolidation	ASTM C165	 35 psi 50 psi
	Flexural Strength	ASTM C203	60 psi
	Tensile Strength	ASTM C209	4.9 psi min.
	Water Absorption, 2 hr	ASTM C209	3.5% max.
	Linear Expansion	ASTM C209	0.5%. max.
Tapered Fesco® Edge Strip *Manuf. Location: #3*	Density	ASTM C209	9 pcf
	Compressive Strength 5% Consolidation 10% Consolidation	ASTM C165	 30 psi 40 psi
	Flexural Strength	ASTM C203	65 psi
	Tensile Strength	ASTM C209	7 psi min.
	Water Absorption, 2 hr	ASTM C209	1.5% max.
	Linear Expansion	ASTM C209	0.5%. max.

Note: The physical properties listed above are presented at typical average values as determined by accepted ASTM test methods and are subject to normal manufacturing variation. Numerical ratings as determined by ASTM Test Method E-84 are not intended to reflect hazards presented by this or any other material under actual fire conditions.

MANUFACTURING LOCATION(S):

1. Jacksonville, FL.
2. Cornwall, ON
3. Rockdale, IL
4. Bremen, IN.

EVIDENCE SUBMITTED:

Test Agency/Identifier	Name	Report	Date
FM Approvals	FM 4450	J.I. 1J4A3.AM	04/11/85
	FM 4450	J.I. 0K4A9.AM	10/11/85
	FM 4450	J.I. 3004299 (letter)	03/21/00
	ASTM E 84	3023546	11/04/05
	FM 4450	3037540	10/20/10
	FM 4470	797-07972-267	02/04/13
	FM 4470	3017543	03/05/04
	FM 4470	3034810	09/10/09
PRI Construction Materials Technologies, LLC	ASTM C 728	JMC-104-02-01	01/11/13
	ASTM C 728	JMC-120-02-01	07/24/13
	ASTM C 728	JMC-121-02-01	07/24/13
	ASTM C 728	JMC-122-02-01	07/24/13
	ASTM C 1289	JMC-172-02-01	02/06/14
	ASTM C 1289	JMC-172-02-02	02/06/14
	ASTM C 1289	JMC-177-02-01	10/31/14
	ASTM C 1289	JMC-175-02-01	10/30/14
	TAS 110	JMC-207-02-02	10/29/14
Intertek	ASTM E 84	100982457SAT-001A	12/14/12
	ASTM E 84	101050452SAT-001B	02/26/13
	ASTM E 84	101050452SAT-001C	02/26/13
	ASTM E 84	101050452SAT-001E	02/26/13
	ASTM E 84	101050452SAT-001F	02/26/13
	ASTM E 84	101175749SAT-001A	05/30/13
	ASTM E 84	101295654SAT-001A	08/19/13
	ASTM E 84	101793764SAT-001A	09/09/14
	ASTM E 84	101793764SAT-001B	09/09/14
UL LLC	UL 790	R10167	10/16/18

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

Tradename:	**ENRGY 3 25 PSI and Tapered ENRGY 3 25 PSI, ValuTherm 25 PSI and Tapered ValuTherm 25 PSI, R-Panel 25 PSI and Tapered R-Panel 25 PSI**
Thickness:	0.5" - 4.1" (12.5-104 mm)
Board Size(s)	4' x 4' (1.2 x 1.2 m) and 4' x 8' (1.2 x 2.4 m)
Core:	Polyisocyanurate foam
Facers:	Fiberglass reinforced felt or fiberglass felt
Decks:	Concrete, Cementitious Wood Fiber, Steel, Wood, Lightweight Concrete, Gypsum
Special Application:	Tapered or flat boards. Multilayer systems may have a first or second layer of ENRGY 3, ValuTherm, or R-Panel tapered or flat followed by a top layer of ENRGY 3, ValuTherm, or R-Panel tapered or flat. Maximum thicknesses 12 in. (305 mm). All layers may be mechanically fastened through the top layer when the top layer is minimum 1.4 in. (36 mm) thick, or the bottom layer may be secured with hot asphalt at an application rate of 25 lbs./sq. (1.2 kg/m²) or mechanically fastened with subsequent layers adhered with hot asphalt at an application rate of 25 lbs./sq. (1.2 kg/m²). When a fully adhered single-ply roof cover is used, the top layer insulation is minimum is 0.5 in. (13 mm) thick, otherwise minimum thickness of top layer is 1.4 in (36 mm).

Tradename:	**ENRGY 3 and Tapered ENRGY 3, ValuTherm and Tapered ValuTherm, R-Panel and Tapered R-Panel**
Thickness:	0.5" - 4.1" (12.5-104 mm)
Board Size(s)	4' x 4' (1.2 x 1.2 m) and 4' x 8' (1.2 x 2.4 m)
Core:	Polyisocyanurate foam
Facers:	Fiberglass reinforced felt or fiberglass felt
Decks:	Concrete, Cementitious Wood Fiber, Steel, Wood, Lightweight Concrete, Gypsum
Special Application:	Tapered or flat boards. Multilayer systems may have a first or second layer of ENRGY 3, ValuTherm or R-Panel tapered or flat followed by a top layer of ENRGY 3, ValuTherm or R-Panel tapered or flat. Maximum thicknesses 12 in. (305 mm). All layers may be mechanically fastened through the top layer when the top layer is minimum 1.4 in. (36 mm) thick, or the bottom layer may be secured with hot asphalt at an application rate of 25 lbs./sq. (1.2 kg/m²) or mechanically fastened with subsequent layers adhered with hot asphalt at an application rate of 25 lbs./sq. (1.2 kg/m²). When a fully adhered single-ply roof cover is used, the top layer insulation is minimum is 0.5 in. (13 mm) thick, otherwise minimum thickness of top layer is 1.4 in (36 mm).

Tradename:	**ENRGY 3.E and Tapered ENERGY 3.E**
Thickness:	1.0" - 4.5" (25.4 – 114 mm)
Board Size(s)	4' x 4' (1.2 x 1.2 m) and 4' x 8' (1.2 x 2.4 m)
Core:	Polyisocyanurate foam
Facers:	Glass Reinforced
Decks:	Concrete, Cementitious Wood Fiber, Steel, Wood, Lightweight Concrete, Gypsum
Special Application:	Tapered or flat boards. Multilayer systems may have a first or second layer of ENRGY 3, ValuTherm, or R-Panel tapered or flat followed by a top layer of ENRGY 3, ValuTherm, or R-Panel tapered or flat. Maximum thicknesses 12 in. (305 mm). All layers may be mechanically fastened through the top layer when the top layer is minimum 1.4 in. (36 mm) thick, or the bottom layer may be secured with hot asphalt at an application rate of 25 lbs./sq. (1.2 kg/m²) or mechanically fastened with subsequent layers adhered with hot asphalt at an application rate of 25 lbs./sq. (1.2 kg/m²). When a fully adhered single-ply roof cover is used, the top layer insulation is minimum is 0.5 in. (13 mm) thick, otherwise minimum thickness of top layer is 1.4 in (36 mm).

Tradename:	**ENRGY 3 FR and Tapered ENRGY 3 FR, ENRGY 3 FR 25 PSI and Tapered ENRGY 3 FR 25 PSI**
Thickness:	1.0" - 4.5" (25-114 mm)
Board Size(s)	4' x 4' (1.2 x 1.2 m) and 4' x 8' (1.2 x 2.4 m)
Core:	Polyisocyanurate foam
Facers:	Inorganic coated glass fiber reinforced on top & bottom; bottom face is premium coated for combustable decks..
Decks:	Concrete, Cementitious Wood Fiber, Steel, Wood, Lightweight Concrete, Gypsum, Recover
Special Application:	None.

Tradename:	**ENRGY 3 Plus™ and Tapered ENRGY 3 Plus™**
Thickness:	1.5" - 4.1" (38-104 mm)
Board Size(s)	4' x 4' (1.2 x 1.2 m) and 4' x 8' (1.2 x 2.4 m)
Core:	Polyisocyanurate foam
Facers:	Wood fiber 0.5 in. (13 mm), top; fiberglass reinforced felt on the other side.
Decks:	Concrete, Cementitious Wood Fiber, Steel, Wood, Lightweight Concrete, Gypsum, Recover
Special Application:	Multilayer systems may have a first or second layer of ENRGY 3, ValuTherm, or R-Panel tapered or flat, followed by a top layer of ENRGY 3 Plus. Maximum total thickness is 12 in (305 mm). See ENRGY 3 for securement

Tradename:	**ENRGY 3® AGF and Tapered ENRGY 3® AGF, ENRGY 3® AGF 25 PSI and Tapered ENRGY 3® AGF 25 PSI, ValuTherm™ AGF or Tapered ValuTherm™, ValuTherm™ AGF 25 PSI or Tapered ValuTherm™ AGF 25 PSI**
Thickness:	1.0" - 4.5" (25-114 mm)
Board Size(s)	4' x 4' (1.2 x 1.2 m) and 4' x 8' (1.2 x 2.4 m)
Core:	Polyisocyanurate foam
Facers:	Uncoated polymer bonded glass fiber reinforced on top & bottom.
Decks:	Concrete, Cementitious Wood Fiber, Steel, Wood, Lightweight Concrete, Gypsum, Recover
Special Application:	Tapered or flat boards. Fesco Board or ½" Retro-Fit Board is installed over insulation with hot membrane systems.

Tradename:	**ENRGY 3® CGF and Tapered ENRGY 3® CGF, ENRGY 3® CGF 25 PSI and Tapered ENRGY 3® CGF 25 PSI, ValuTherm™ CGF or Tapered ValuTherm™ CGF, ValuTherm™ CGF 25 PSI or Tapered ValuTherm™ CGF 25 PSI**
Thickness:	1.0" - 4.5" (25-114 mm)
Board Size(s)	4' x 4' (1.2 x 1.2 m) and 4' x 8' (1.2 x 2.4 m)
Core:	Polyisocyanurate foam
Facers:	Inorganic coated glass fiber reinforced on top & bottom.
Decks:	Concrete, Cementitious Wood Fiber, Steel, Wood, Lightweight Concrete, Gypsum
Special Application:	Tapered or flat boards.

Tradename:	**ENRGY 3 Foil Faced and Tapered ENRGY 3 Foil Faced, ENRGY 3 Foil Faced 25 PSI and Tapered ENRGY 3 Foil Faced 25 PSI**
Thickness:	1.0" - 4.0" (25.4-101.6 mm)
Board Size(s)	4' x 4' (1.2 x 1.2 m) and 4' x 8' (1.2 x 2.4 m)
Core:	Polyisocyanurate foam
Facers:	Tri-laminated foil facer on both sides.
Decks:	Concrete, Cementitious Wood Fiber, Steel, Wood, Lightweight Concrete, Gypsum, Recover
Special Application:	Tapered or flat boards.

Tradename:	**Fesco® Board & Tapered Fesco® Board**
Thickness:	Homogeneous: ¾", 1", 1.5" (19, 25, 38 mm) Laminated: 1.5", 2", 3" (38, 51, 76 mm). Laminated Fesco consists of two layers of Fesco laminated together.
Board Size(s)	2' x 4' (0.6 x 1.2 m) and 4' x 4' (1.2 x 1.2 m)
Core:	Expanded Mineral Fiber
Facers:	None.
Decks:	Concrete, Cementitious Wood Fiber, Steel, Wood, Lightweight Concrete, Gypsum, Recover
Special Application:	Tapered Fesco contains a built-in taper of 1/8 or ¼ in per ft (10 or 20 mm per m) and may be used interchangeably with Fesco. Tapered Fesco must be used over a min. ¾" (19 mm) Fesco when installed over steel decks.

Tradename:	**Fesco® Board HD**
Thickness:	1" (25 mm)
Board Size(s)	4' x 4' (1.2 x 1.2 m)
Core:	Expanded Mineral Fiber
Facers:	None.
Decks:	Concrete, Cementitious Wood Fiber, Steel, Wood, Lightweight Concrete, Gypsum, Recover
Special Application:	None.

Tradename:	**FescoFoam and Tapered Fesco Foam**
Thickness:	1.5" - 4.1" (38-104 mm)
Board Size(s)	4' x 4' (1.2 x 1.2 m) and 4' x 8' (1.2 x 2.4 m)
Core:	Polyisocyanurate foam
Facers:	Perlite 0.5 in. (13 mm), top or bottom; fiber reinforced organic or glass felt on the other side.
Decks:	Concrete, Cementitious Wood Fiber, Steel, Wood, Lightweight Concrete, Gypsum
Special Application:	Multilayer systems may have a first or second layer of ENRGY 3, ValuTherm, or R-Panel tapered or flat, followed by a top layer of Fesco Foam tapered or flat. Maximum total thickness is 12 in (305 mm). See ENRGY 3 for securement.

Tradename:	**Retro-Fit® Board™**
Thickness:	½" (13 mm)
Board Size(s)	2' x 4' (0.6 x 1.2 m), 4' x 4' (1.2 x 1.2 m) and 4' x 8' (1.2 x 2.4 m)
Core:	Expanded Mineral Fiber
Facers:	None
Decks:	Concrete, Cementitious Wood Fiber, Steel, Wood, Lightweight Concrete, Gypsum, Recover
Special Application:	For recover construction only or as top layer over an Approved insulation.

Tradename:	**DuraBoard™**
Thickness:	½" – 1" (13-25 mm)
Board Size(s)	4' x 4' (1.2 x 1.2 m) and 4' x 8' (1.2 x 2.4 m)
Core:	Expanded Mineral Fiber
Facers:	None
Decks:	Concrete, Cementitious Wood Fiber, Steel, Wood, Lightweight Concrete, Gypsum, Recover
Special Application:	½" (13 mm) for concrete or recover construction only or as top cover board over an Approved insulation

Tradename:	**DuraFoam™ and Tapered DuraFoam™**
Thickness:	1.5" - 4" (38-102 mm)
Board Size(s)	4' x 4' (1.2 x 1.2 m) and 4' x 8' (1.2 x 2.4 m)
Core:	Polyisocyanurate foam
Facers:	DuraBoard 0.5 in. (13 mm) top; glass fiber reinforced organic felt on bottom.
Decks:	Concrete, Cementitious Wood Fiber, Steel, Wood, Lightweight Concrete, Gypsum, Recover
Special Application:	Multilayer systems may have a first or second layer of ENRGY 3, ValuTherm, or R-Panel tapered or flat, followed by a top layer of Fesco Foam tapered or flat. Maximum total thickness is 12 in (305 mm). See ENRGY 3 for securement.

Tradename:	**Invinsa™ Roof Board**
Thickness:	¼"
Board Size(s)	4' x 4' (1.2 x 1.2 m) and 4' x 8' (1.2 x 2.4 m)
Core:	High density polyisocyanurate
Facers:	Glass fiber, uncoated
Decks:	Concrete, Cementitious Wood Fiber, Steel, Wood, Lightweight Concrete, Gypsum, Recover
Special Application:	None.

Tradename:	**Invinsa™ FR Roof Board**
Thickness:	¼"
Board Size(s)	4' x 4' (1.2 x 1.2 m) and 4' x 8' (1.2 x 2.4 m)
Core:	High density polyisocyanurate
Facers:	Mineral coated Glass fiber reinforced on top & bottom, bottom facer is premium coated for combustible decks
Decks:	Concrete, Cementitious Wood Fiber, Steel, Wood, Lightweight Concrete, Gypsum, Recover
Special Application:	Premium Tan Facer must be oriented downward on roof deck.

Tradename:	**Invinsa™ Foam and Tapered Invinsa™ Foam**
Thickness:	¼"
Board Size(s)	4' x 4' (1.2 x 1.2 m) and 4' x 8' (1.2 x 2.4 m)
Core:	Polyisocyanurate foam
Facers:	Mineral coated Glass fiber reinforced on top & bottom
Decks:	Concrete, Cementitious Wood Fiber, Steel, Wood, Lightweight Concrete, Gypsum, Recover
Special Application:	Tapered or flat boards.

Tradename:	**RetroPlus Roof Board**
Thickness:	½ "
Board Size(s)	2' x 4' (0.6 x 1.2 m), 4' x 4' (1.2 x 1.2 m) and 4' x 8' (1.2 x 2.4 m)
Core:	Expanded Perlite and Cellulosic fibers
Facers:	TopLoc® coating on top
Decks:	Concrete, Cementitious Wood Fiber, Steel, Wood, Lightweight Concrete, Gypsum, Recover
Special Application:	For new construction as a top layer over Retro-Fit® Board™ or other Approved insulation, or as a separator or recover board in re-roofing applications.

Tradename:	**Nailboard and Vented Nailboard**
Thickness:	2" – 4.5" (51 – 114 mm), Vented: 2.5" – 5.5" (64 – 140 mm)
Board Size(s)	47-1/2" x 95-1/2" (1.2 x 2.4 m), Vented: 4' x 8' (1.2 x 2.4 m)
Core:	Polyisocyanurate foam
Facers:	CDX Plywood reinforced on top & glass fiber reinforced on bottom
Decks:	Concrete, Cementitious Wood Fiber, Steel, Wood, Lightweight Concrete, Gypsum, Recover
Special Application:	None.

Tradename:	**FesCant™ Plus Cant Strip**
Board Size(s)	1" x 3"(2.5 x 7.6 cm), 1" x 4"(2.5 x 10.2 cm), 1.5" x 4"(3.8 x 10.2 cm) and 1.5' x " (3.8 x 12.7 cm)
Core:	Expanded Perlite
Facers:	None.
Special Application:	Accessory product. Refer to Johns Manville's current published application guidelines.

Tradename:	**Tapered Fesco® Edge Strip**
Board Size(s)	0.5" x 6"(1.3 x 15.2 cm), 0.5" x 12"(1.3 x 30.5 cm), 1" x 12"(2.5 x 30.5 cm), 1.5" x 12"(3.8 x 30.5 cm) and 1.5' x 18" (3.8 x 45.7 cm)
Core:	Expanded Perlite
Facers:	None.
Special Application:	Accessory product. Refer to Johns Manville's current published application guidelines

COMMENTS AND LIMITATIONS:

1. Roof assemblies are approved under specific roof cover's Product Control Notice of Acceptance.
2. Johns Manville Corporation products may be used with any approved roof covering listing a specific Johns Manville product as a component part of a roof assembly Notice of Acceptance. If a Johns Manville product is not listed, a request may be made to the local building inspector or the Miami Dade Building Code Compliance Office for approval provided that appropriate documentation is provided.
3. Fire classification is not a part of this Notice of Acceptance
4. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 16G20-3 of the Florida Administrative Code.
5. All approved products listed herein shall be labeled and shall bear the imprint or identifiable marking of the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved" or the Miami-Dade County Product Control Seal as shown below.

MIAMI-DADE COUNTY APPROVED

END OF THIS ACCEPTANCE