

# Firestone ISOGARD Family of Polyiso Insulation

## ASTM C1289

ASTM C1289						
	Type I	Type II			Type IV	Type V
Description	High performance aluminum foil facers on both sides	Glass reinforced mat facers on both sides	Coated, inorganic, fiberglass facers on both sides	Coated glass facers on both sides	ISOGARD HD board on one side with coated, inorganic, fiberglass facers on the other side	7/16" OSB on one side with black glass reinforced mat facer on the other side
Class / Grade	Class 1	Class 1	Class 2	Class 4		
	Grade 3 (25 PSI)	Grade 2 (20 PSI)	Grade 2 (20 PSI)	Grade 1 (80 PSI)	Grade 2 (20 PSI)	Grade 2 (20 PSI)
		Grade 3 (25 PSI)	Grade 3 (25 PSI)	Grade 2 (120 PSI)	Grade 3 (25 PSI)	Grade 3 (25 PSI)
Use / Specs	Wall Only Flat Only 1.0" - 4.0" 4' x 8'	Roof Flat / Tapered 0.5" - 4.5" 4' x 4', 4' x 8'	Roof Flat / Tapered 1.0" - 4.0" (flat) 4' x 4', 4' x 8'	Roof Flat Only 0.5" 4' x 4', 4' x 8'	Roof Flat Only 1.5" - 4.0" 4' x 4', 4' x 8'	Roof Flat Only 1.5" - 4.0" 4' x 4', 4' x 8'
New Name	<b>Enverge CI Foil</b>	<b>ISOGARD GL</b>	<b>ISOGARD CG</b>	<b>ISOGARD HD</b>	<b>ISOGARD HD Composite</b>	<b>ISOGARD HG</b>
Formerly	Enverge CI Foil	ISO 95+ GL	Resista	ISOGARD HD	ISOGARD HD Composite	HailGard

### General Notes:

- 4' x 4' boards are REQUIRED when being adhered with an approved Firestone insulation adhesive
- Do not use ISOGARD HD/HD Composite/HG on ballasted roof membranes
- Do not apply hot asphalt to ISOGARD HD/HD Composite boards
- ISOGARD HD Composite: HD coverboard only available in 80 PSI
- ISOGARD CG assemblies achieve a Class A Fire Rating on a combustible deck without a barrier board
- ISOGARD CG, Grade 3 (25 PSI) Insulation is limited to a MAXIMUM 2.9" thick board size
- Chart represents only those Types/Classes/Grades available through Firestone Building Products

### Long-Term Thermal Resistance Polyiso Board Stock Insulation

SIZE	R-VALUE	PCS
0.5	2.9	96
1.0	5.7	48
1.1	6.3	42
1.2	6.8	40
1.3	7.4	36
1.4	8.0	34
1.5	8.6	32
1.6	9.1	30
1.7	9.7	28
1.8	10.3	26
1.9	10.8	25
2.0	11.4	24
2.1	12.0	22
2.2	12.6	21
2.3	13.2	20
2.4	13.8	20
2.5	14.4	19
2.6	15.0	18
2.7	15.6	17

  

2.8	16.2	17
2.9	16.8	16
3.0	17.4	16
3.1	18.0	15
3.2	18.6	15
3.3	19.2	14
3.4	19.9	14
3.5	20.5	13
3.6	21.1	13
3.7	21.7	12
3.8	22.3	12
3.9	23.0	12
4.0	23.6	12
BASED ON ASTM C1289-13e1		
R-Value	Thickness	
20.0	2 layers 1.8" (R-20.6)	
25.0	2 layers 2.2" (R-25.2)	
30.0	2 layers 2.6" (R-30.0)	
35.0	2 layers 3.1" (R-36.0)	
40.0	2 layers 3.5" (R-41.0)	

### Tapered Insulation Panels 4'x4'

Slope	Panel	Dimensions	BD FT per Panel	PCS
1/8	AA	.5" - 1"	12	64
	A	1" - 1.5"	20	38
	B	1.5" - 2"	28	26
	C	2" - 2.5"	36	20
	D	2.5" - 3"	44	16
	E	3" - 3.5"	52	14
	F	3.5" - 4"	60	12
	FF	4" - 4.5"	68	10
	X	.5" - 1.5"	16	48
	Y	1.5" - 2.5"	32	24
1/4	Z	2.5" - 3.5"	48	16
	ZZ	3.5" - 4.5"	64	12
	G	1" - 2"	24	32
	H	2" - 3"	40	18
1/2	I	3" - 4"	56	12
	Q	.5" - 2.5"	24	32
	QQ	2.5" - 4.5"	56	12
	XX	1" - 3"	32	24

  

3/16	JJ	.5" - 1.25"	14	54
	KK	1.25" - 2"	26	28
	LL	2" - 2.75"	38	20
	MM	2.75" - 3.5"	50	14
	J	1" - 1.75"	22	34
	K	1.75" - 2.5"	34	22
3/8	L	2.5" - 3.25"	46	16
	M	3.25" - 4"	58	12
	SS	.5" - 2"	20	38
	TT	2" - 3.5"	44	16
	SS1	1" - 2.5"	28	26
	TT1	2.5" - 4"	52	14
1/16	1A	.5" - .75"	10	72
	1B	.75" - 1"	14	54
	1	1" - 1.25"	18	42
	2	1.25" - 1.5"	22	34
	3	1.5" - 1.75"	26	30
	4	1.75" - 2"	30	26
1/8	5	2" - 2.25"	34	22
	6	2.25" - 2.5"	38	20