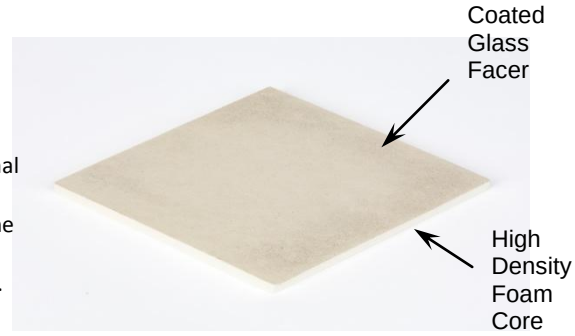
TECHNICAL INFORMATION SHEET

ISOGARD™ HD Cover Board

TIS 916



Description:
Firestone ISOGARD™ HD Cover Board is a half-inch (12.7 mm) thick polyiso insulation designed to prevent heat loss from a building and for use as a cover board. It is a high density, closed-cell, polyisocyanurate foam core that has been manufactured with coated glass facers. Firestone ISOGARD™ HD Cover Board provides the highest thermal performance when compared to other high density insulations or cover boards.
All Firestone polyisocyanurate insulations use EPA accepted blowing agents. Firestone ISOGARD™ HD Cover Board with ISOGARD™ Foam Technology incorporates a HCFC-free blowing agent that does not contribute to the depletion of the ozone (ODP-free).

Fire Rated Over a Combustible (Wood) Deck
Firestone ISOGARD HD ½" material has been rated Class B.

Superior Hail Resistance
ISOGARD HD ½" boards have been given a Severe Rating by Factory Mutual (FM) Global. ISOGARD HD Cover Board has also received Approvals for 2.5" diameter hail with mechanically attached 060 TPO with a kinetic energy of 57.48 ft-lbs and 2.0" diameter hail with mechanically attached 045 EPDM with a kinetic energy of 23.65 ft-lbs. (source: National Bureau of Standards 23)

Method of Application:
Insulation shall be neatly fitted to all roof penetrations, projections and nailers. No more insulation shall be installed than can be covered with membrane and completed before the end of each day's work or before the onset of inclement weather.
Firestone ISOGARD™ HD Cover Board can be applied over existing roof surfaces and under adhered or mechanically attached Single Ply, and Modified Bitumen systems applied in Multi-Purpose MB Cold Adhesive and BASEGARD™ SA base sheets with a Torch Applied Cap or an SBS sand backed Cap Sheet in hot asphalt.
ISOGARD HD Cover Board can be installed using Firestone Fasteners and Plates or Firestone Insulation Adhesives:

- I.S.O. Twin Pack™
- I.S.O. Stick™
- I.S.O. Spray™ S
- I.S.O. FIX™ II

Storage:
- Keep insulation dry at all times.
- Elevate insulation above the deck or ground.
- Cover insulation with waterproof tarps.

Recycle Content:
Post Industrial Recycled Content for ½" ISOGARD HD boards 8.3%

Precautions:
- Keep insulation dry at all times.
- Elevate insulation above the deck or ground.
- Cover insulation with waterproof tarps.
- Combustible. Refer to MSDS for more information.
- Do not install over wet, damp or uneven substrates.
- Do NOT torch apply membranes to ISOGARD™ HD cover boards
- **DO NOT use hot asphalt with ISOGARD™ HD** cover boards

Specification Compliance:
Manufactured in an ISO 9000 Registered Facility
FM Global Approved when applied with the fastening pattern shown. UL Classified

Available Sizes

Board Size	½" Item Number
4' x 4' (1.2 m x 1.2 m)	W8H3GG0504
4' x 8' (1.2 m x 2.4 m)	W8H3GG0508

Manufactured in an ISO 9001 Registered Facility
Manufacturing Locations: Corsicana, TX Youngwood, PA Jacksonville, FL DeForest, WI Florence, KY Bristol, CT

TECHNICAL INFORMATION SHEET

Firestone BUILDING PRODUCTS

ISOGARD™ HD
Cover Board

Physical Properties	*ASTM Standard*	*Units*	*Value*	*Units*	*Value*
Compressive Strength	D 1621	psi	120	kPa	827
Density	D 1622	pcf	5	kg/m^3	80
Pull through resistance	D 473 modified	lbf	210	N	934
Dimensional Stability	D 2126	%	<0.5	%	<0.5
Water Absorption	C209	% by volume	<3	% by volume	<3
Service Temperature	----	*°F*	100-200 *°F*	*°C*	73-121 *°C*
Resistance to Mold	D 3273	--	pass	---	pass
Flute Span over metal decks		inches	2.625		
Hail Resistance	MA 060 TPO	hail size, inches	2.5 ---	mm	63.5
	MA 045 TPO	hail size, inches	2.0 ---	mm	50.8

Product Data	Thickness inches	Thickness mm	LTTR R-Value*
Thermal Resistance	0.5	12.7	2.5

R-Values shown are based on ASTM Test C518 2 75 °F mean
**Long Term Thermal Resistance (LTTR) value is pending accordance*

Acceptable Substrates:	Notes:
Structural Concrete, 3000 psi (New and Existing) *Steel, min. 22 gage* *Lightweight Concrete* *Plywood and OSB, min. ½ in.* *Gypsum, min. 2"*	Please consult Membrane Design Guides on line at www.firestonebpco.com to review specific information regarding fastener types appropriate for the type of deck and insulation in use.
NOT ACCEPTABLE:	
	Do not use hot asphalt to adhere ISOGARD HD cover boards

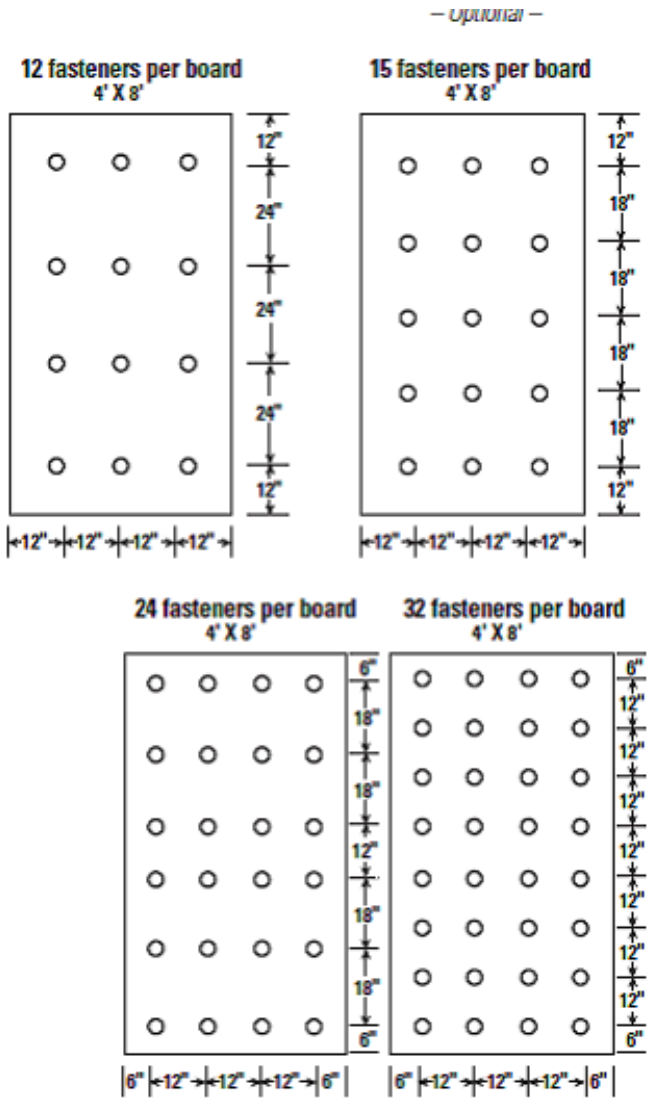
Firestone ISOGARD HD cover board is not suitable as an immediate substrate for a ballasted roof system

Please Contact your Firestone Roof System Adviser at 1-800-428-4511 for further information.

This sheet is meant to highlight Firestone products and specifications and is subject to change without notice. Firestone takes responsibility for furnishing quality materials which meet published Firestone product specifications. Neither Firestone nor its representatives practice architecture. Firestone offers no opinion on and expressly disclaims any responsibility for the soundness of any structure. Firestone accepts no liability for structural failure or resultant damages. Consult a competent structural engineer prior to installation if the structural soundness or structural ability to properly support a planned installation is in question. No Firestone representative is authorized to vary this disclaimer.

ISOGARD™ HD
Cover Board

Fastening Patterns for ISOGARD HD Cover Boards



CAUTION: For product fire, safety and use information, go to gp.com/safetyinfo.