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## HD COVER BOARD

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## TECHNICAL INFORMATION

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**Firestone**

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## ISOGARD™ HD

### 1. Description

Firestone ISOGARD™ HD is a 12.7 mm thick polyisocyanurate board designed for use as a cover board. It is a high-density, closed-cell, polyiso foam core that has been manufactured with a coated fiberglass facer.



### 2. Preparation

Before cover board is placed on the roof deck, the surface must be clean, dry, smooth, free of debris, water, ice or snow, and suitably prepared by removing all defects that might affect the quality of the application.

### 3. Application

Firestone ISOGARD HD shall be neatly fitted to all roof penetrations and projections. No more boards 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.

ISOGARD HD can be applied over existing as well as new roof surfaces and under adhered or mechanically attached single-ply roofing membranes. ISOGARD HD is not suitable as an immediate substrate for a ballasted roof system.

ISOGARD HD must be installed using approved fasteners and plates or insulation adhesives. The number of fasteners per board needs to be determined based on a wind uplift calculation in accordance with local building codes and taking into account a minimum requirement of 12 fasteners per board in case of a fully adhered single-ply roofing membrane and minimum 8 fasteners in case of a mechanically attached membrane. Please contact the Firestone Technical Department for information on fastening patterns. When boards are adhered using an approved insulation adhesive, refer to installation instructions of the adhesive manufacturer.

### 4. Characteristics

| Properties   | Test Method       | Declared Value                |
|--|-------------------|-------------------------------|
| Dry mass per unit area   |                   | 1.8 kg/m <sup>2</sup> (± 0.3) |
| Compressive strength   | EN 826            | ≥ 800 kPa                     |
| Perpendicular strength (dry state)   | EN 1607           | ≥ 500 kPa                     |
| Dimensional stability  | EN 1604           | Δd ≤ 4%<br>Δl, Δb ≤ 1%        |
| Flute span over metal decks  |                   | < 67 mm                       |
| Water absorption   | EN 12087          | < 3 %                         |
| Reaction to fire   | EN 13501-1        | Euroclass E                   |
| <b>Product Range</b>   |                   |                               |
| Thickness  | 12.7 mm           |                               |
| Dimensions   | 1220 mm x 2250 mm |                               |
| <b>Specification Compliance</b>  |                   |                               |
| <ul style="list-style-type: none"> <li>• FM Global Approved</li> <li>• Manufactured in an ISO 9000 registered facility</li> <li>• Ozone Depleting Potential (ODP): 0</li> <li>• Asbestos-free, Chlorine-free, Formaldehyde-free</li> </ul> |                   |                               |



## 5. Packaging / Storage / Shelf Life

|             |   |
|-------------|---|
| Packaging   | 46 boards/bundle. Tuff-wrap packaging provides a durable protective covering to the top and four sides of the bundle, as well as a portion of the bottom board. |
| Part number | W8H3GG050F  |

**Storage:** Cool and dry. Store material in original unopened packaging in a dry area away from sources of physical damage or chemical contamination. Bundles need to be elevated above the water line to prevent moisture infiltration from the bottom side.

**Shelf Life:** Unlimited, if stored in above-mentioned conditions.

## 6. Precautions

Combustible. Firestone ISOGARD HD is a non-structural and non-load-bearing material. Keep boards dry at all times. Do not install over wet, damp or uneven substrates. Do not torch apply membranes to ISOGARD HD and do not use hot asphalt with ISOGARD HD boards.

This document replaces any other document published previous. This sheet is meant to highlight Firestone product information based on latest knowledge and experience and is subject to change without notice (check the Firestone website for latest document version). Above mentioned values are based on tested samples and may vary within applicable tolerances. Firestone takes responsibility for furnishing quality materials which meet published Firestone product specifications. No Firestone representative is authorized to vary this disclaimer.

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