



## High-Density Fiberboard Panel for Premium Performance

### TRUE ASPHALT COATED ON SIX SIDES

FiberBase HD Excel™ is Georgia-Pacific's premium, high-density fiberboard panel, coated on all 6 sides, with a true asphalt sealer to enhance moisture resistance and help extend adhesive coverage efficiency. Flat, uniform and dimensionally stable, it is an excellent cover board for roof system applications. FiberBase HD Excel also adds supplemental insulation value to help reduce heating and cooling costs. In addition, its lightweight composition eases handling strain and allows easy cutting with a utility knife. Produced and proven for more than 50 years, specify FiberBase HD Excel when you need a premium fiberboard roofing substrate.



### SIZES

**Thicknesses:** 1/2", 25/32", 1"

**Dimensions:** 4'x4', 4'x8'

**Pieces per Unit:** 90, 60, 45

### APPLICATIONS

- Cover board over existing roof in recover applications
- Protective layer over low-density insulation
- Substrate for the following systems:
  - Fully adhered EPDM single-ply membrane roof systems
  - Modified bitumen roof systems
  - Built-up roof systems
  - Mechanically fastened roof systems
  - Loose-laid ballasted roof systems



## C6S PHYSICAL PROPERTIES

## THICKNESS

	ASTM TEST / STANDARD	1/2"	25/32"*	1"
Linear Expansion (max.)	C209 / 0.5%	0.3-0.5%	0.3-0.5%	0.3-0.5%
Water Absorption (max.)	C209 / 7.0%	5.0-7.0%	5.0-7.0%	5.0-7.0%
Compression Strength (PSI min.)	C165 / 20 Procedure A	20	20	20
Tensile Strength Parallel to Surface (PSI avg. min.)	D1037 / 150	150-200	150-160	150-160
Tensile Strength Perpendicular to Surface (PSI min.)	D1037 / 600	600	600	600
Transverse Load Either Direction (avg. min. lbs.)	C209 / 12 (1/2"), 24 (1")	12-16	23-25	24-25
Modulus of Rupture (PSI avg. min.)	C165 / 275 (1/2"), 140 (1")	275-400	160-200	140
Thermal Conductivity (t/R)	C518 / 0.40	0.40	0.40	0.40
Thermal Resistance Same as R-Value (°F-ft <sup>2</sup> -h/BTU)	C518 / 1.32 (1/2"), 2.64 (1")	1.32	2.06	2.64

\*No ASTM standard published for 25/32"

## SPECIFICATIONS COMPLIANCE

FiberBase HD Excel™ meets or exceeds the requirements for Type II, Grade 2 panels referenced in **ASTM C208-12** (Standard Specification for Cellulosic Fiber Insulating Board) and/or **CAN/ULC-S706** (Standard for Wood Fibre Insulating Boards for Buildings). FiberBase HD Excel surpasses the ASTM's minimum standards for transverse load by up to 17%, creating a stiffer panel that is especially valuable when used in mechanically attached roof systems where resistance to wind uplift is a design requirement.

FiberBase HD Excel is available coated 1 side (C1S) by special order.

FiberBase HD Excel is also available by special order as an **Underwriters Laboratories'** classified product under the UL File R11115 for built-up roof covering materials. See the listing under Roof Covering Materials (TEVT) in the UL Roofing Materials and Systems Directory.

## WIND UPLIFT INFORMATION

FiberBase HD Excel is a **Factory Mutual Global** approved roof insulation for I-60 and I-90 wind uplift rated systems as outlined in reports J.I.1T6A2.AM (C1S), J.I.2M3A2.AM (C6S) and J.J.0V7A2.AM (C1S). FM allows FiberBase HD Excel wherever wood fiber insulation is specified.

*(Consult the roofing membrane manufacturer and the current Factory Mutual Global approval guide for systems compatibility and specific application instructions.)*

## INSTALLATION REQUIREMENTS

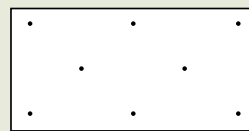
When installed according to these instructions, FiberBase HD Excel provides a flat, uniform substrate for optimum membrane performance.

**For Insulation Protection Applications:** Offset FiberBase HD Excel panel joints at least 6" from underlying insulation panel joints. Spacing at all FiberBase HD Excel joints should not exceed a maximum of 1/8". Panels must be dry before and during application. Apply only as many sheets of FiberBase HD Excel as can be covered by the roof membrane during the same day.

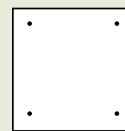
**For Re-Roofing (Cover Board) Applications:** Existing roof surface must be cleared of all gravel and other debris before applying FiberBase HD Excel. Surface irregularities must be smoothed or scraped flat. FiberBase HD Excel and deck must be dry prior to installation and kept dry during the re-roofing process.

## RECOMMENDED FASTENER PATTERNS

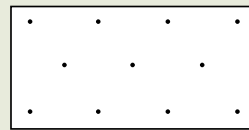
When mechanical fasteners are used, the patterns below are recommended for these commonly specified numbers of fasteners. (Consult the roofing membrane manufacturer for recommended size and quantity of fasteners required for a specific job.)



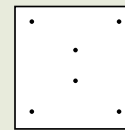
4' x 8'  
8 fasteners per board



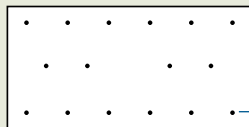
4' x 4'  
4 fasteners per board



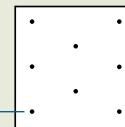
4' x 8'  
11 fasteners per board



4' x 4'  
6 fasteners per board



4' x 8'  
16 fasteners per board



4' x 4'  
8 fasteners per board

Minimum fastener spacing at corners 6" from either edge  
Maximum fastener spacing at corners 12" from either edge

## GENERAL DESCRIPTION

**Composition:** Cellulosic Wood Fibers, Binders and Asphalt

**Density:** High Density

**Coating:** Asphalt Coated 6 Sides (C6S)

## SAFETY & SUSTAINABILITY

- **WARNING** – Do not apply flame to FiberBase HD Excel. When applying modified bitumen membranes, a base sheet is required. FiberBase HD Excel may smolder and burn. Extinguish completely if ignited.
  - Georgia-Pacific procurement practices are certified to conform with the **Sustainable Forestry Initiative®** program objectives 8-20 of Section 2 - SFI 2010-2014.
  - **Green Building** – The specification and usage of FiberBase HD Excel can help contribute toward credits in sustainable building rating systems such as LEED, the NAHB Green Building Standard and others:
    - LEED MR 4: Pre-Consumer Recycled Content
    - LEED MR 5: Local/Regional Materials (Where applicable)
    - LEED EQ 4.4: Environmental Quality
- (For more information about sustainable building contributions, contact your Georgia-Pacific representative.)

## SPECIAL ORDER:

- Coated 1 Side (C1S)
- UL Classified

## LIMITATIONS:

- DO NOT apply flame to FiberBase HD Excel. When applying modified bitumen membranes, a base sheet is required.
- Follow membrane manufacturer's instructions in single-ply membrane applications.



Georgia-Pacific Wood Products LLC  
133 Peachtree Street, N.E. | Atlanta, GA 30303 | 1-800-BUILD GP | www.buildgp.com

FiberBase HD Excel, Georgia-Pacific and the GP logo are trademarks owned by or licensed to Georgia-Pacific Wood Products LLC. ©2015 Georgia-Pacific Wood Products LLC. All rights reserved. Sustainable Forestry Initiative is a registered trademark owned by Sustainable Forestry Initiative Inc. Printed in the U.S.A. CS2272.2 07/15 Lit. Item #621695