



**Georgia-Pacific**

# Commercial Roof Fiberboard

## Specifications

- High Density (Type II, Grade 2)
- Regular Density (Type II, Grade 1)

### Product Description

GP Roof Fiberboard is manufactured to a uniform density using cellulosic wood fibers with additives to improve strength and moisture resistance. Each panel is surface treated with a black sealer to promote adherence of the roofing membrane and reduce adhesive or bitumen strike-in.

### Grade (Produced to ASTM C-208-95 Product Standard)

GP Roof Fiberboard is available in grades of High Density or Regular Density.

- High Density is produced in 1/2" and 1" homogenous thickness.
- Regular Density is produced in 1/2" thickness only.

High Density is produced to ASTM C-208-95 with a 1/2" transverse load of 14 lb. This exceeds the minimum requirements which permit 12 lb. for this property. This 17% higher transverse load provides for stiffer panels, supports job site handling with less damage, and is especially important when used in mechanically attached roof systems where wind uplift forces must be a consideration.

- Either High Density or Regular Density Georgia-Pacific roof fiberboard may be used under ballasted or mechanically attached roof systems.
- Only High Density should be used under fully adhered single ply roof systems.

### Dimensions

- 1" thick: 4x8, 4x4 Standard sizes: 2x4 available (High Density)
- 1/2" thick: 4x8, 4x4 Standard sizes: (Regular Density or High Density) High Density (Type II, Grade 2) available coated 6 sides.

### Benefits

- Added insulation for lower heating and cooling energy consumption
- Withstands normal deck traffic during and after membrane application
- Provides added rigidity to foam insulation and entire roof deck
- High compression strengths help reduce impact damage from hail or other factors

### Recommended Uses

- General purpose roof fiberboard for use in conventional built-up and modified bitumen systems.
- Recover board over existing roof decks prior to reroofing.
- Protective cover over insulation to prevent damage.
- Under fully adhered EPDM single ply membrane (High Density only).
- Under mechanically fastened roof systems.
- Under loose laid ballasted roof systems.

### Application

**When used as Roof Overlay:** Fiberboard panel joints should be offset at least 6" from underlying insulation panel joints. Panels must be installed with 1/8" (maximum) space at all joints. Panels must be dry before and during application. Apply only as many roof fiberboard panels as can be covered by a roof membrane during the same day.

**When used in Re-Roofing applications:** Before applying recover board, existing roof surface must be cleaned of all gravel and other debris. Surface irregularities must be smoothed or scraped flat. Deck must be dry at start of application and maintained in a dry condition during re-roofing.

- When used in modified bitumen roof systems, do not apply flame directly to GP Roof Fiberboard.
- Single ply membrane application should follow membrane manufacturer's instructions.
- Do not use Regular Density under adhered single ply roof membranes.

\* R-values shown are based on ASTM Test C-518 or C-177 at 75°F mean temperature.

*continued on reverse*

## Fiberboard Specifications Compliance

Georgia-Pacific Roof Fiberboard complies with the following Standards and may be used in roof systems as noted to the right:

Georgia-Pacific Roof Fiberboard meets or exceeds all requirements of the specifications and standard at right. Because of the high physical properties, 1" Homogeneous Georgia-Pacific Roof Fiberboard is recommended as a substitute wherever 1" laminated (2 pieces each 1/2" thick) High Density Roof Fiberboard is considered.

UL Classified—1/2" Regular, 1/2" High Density and 1" Homogeneous.

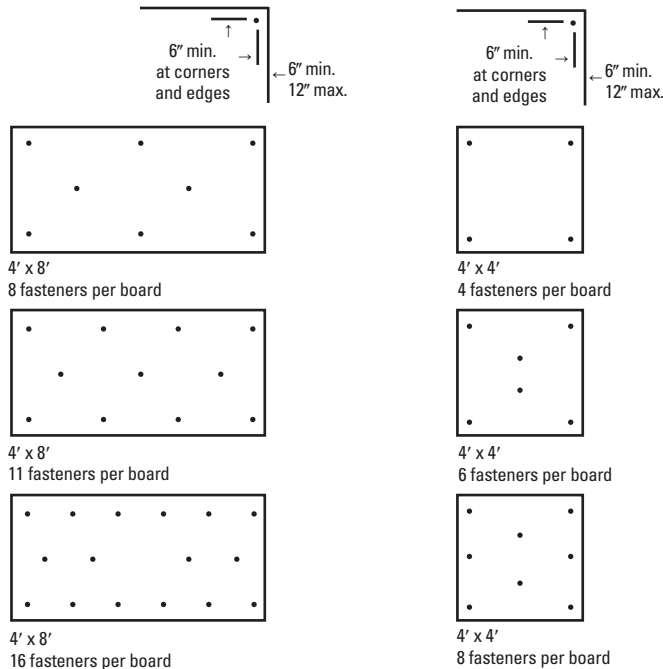
FM Approved—Ask for J.J. 0V7A2.AM (FMRC Standards 4450 & 4470)

Product Standard	GP Roof Fiberboard	
	High Density	Regular Density
ASTM C-208-95	Type II, Grade 2	Type II, Grade 1
Roof System Applications	6	
Adhered (fully)	Yes	No
Ballasted	Yes	Yes
Mechanically Fastened	Yes	Yes

## Physical Properties

Property	Test Method	Thick	High Density Grade 2	Regular Density Grade 1
Linear Expansion (Max.)	ASTM C-209	1/2"	0.5%	0.5%
Water Absorption (Max.)	ASTM C-209	1"	0.5%	
Compression Strength (PSI)	ASTM C-165, Procedure A	1/2"	7.0%	10%
Tensile Strength Parallel (PSI Avg. Min.)	ASTM D-1037	1"	7.0%	
Tensile Strength Perpendicular (PSF Min.)	ASTM D-1037	1/2"	24.4 at 10% deformation	—
Transverse Load Either Direction (Avg. Min. Lbs.)	ASTM C-209	1"	150	50
Modulus of Rupture PSI (Avg. Min.)	ASTM D-1037	1/2"	150	
Thermal Conductivity (t/R)	ASTM C-209	1"	600 lbs./ft <sup>2</sup>	500
Thermal Resistance (°F·ft <sup>2</sup> ·h/BTU)	ASTM C-209	1/2"	600 lbs./ft <sup>2</sup>	
	ASTM C-209	1"	14	7
	ASTM C-209	1"	24	
	ASTM-165	1/2"	275	140
	ASTM-165	1"	140	
	ASTM C-518	K	1/2" .391	1/2" .378
	ASTM C-518	K	1" .360	
	ASTM C-518	R	1/2" 1.28	1/2" 1.32
	ASTM C-518	R	1" 2.78	

## Recommended Fastener Patterns



When mechanical fasteners are used, the patterns at right are recommended for the varying number of fasteners required. (Consult the roofing membrane manufacturer for recommended size and number of fasteners for a specific job.)



Georgia-Pacific Wood Products LLC  
55 Park Place, N.E.  
Atlanta, GA 30303  
1-800-BUILD GP [www.gp.com](http://www.gp.com)