

DEPARTMENT OF FIRE AND RESCUE SERVICES



MEMORANDUM



2009.008

Originating From	Issue Date	Expiration Date	Attachments
Office of the Fire Chief	4/21/2009		A-B

SUBJECT: Safety Alert

APPLICABILITY: All Personnel

- 1 Today's energy efficient building construction materials become our challenge to extinguishment before collapse or even explosion.
- 2 Please read the attached information about Georgia –Pacific XJ 85 I- Joists.
- 3 For more information please visit their web page <http://www.gp.com/build/xj85/index.html>

Approved:

William F. Goddard, III
Chief


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US

Category Overview

[FiberStrong® Rim Board](#)
[GP Lam® LVL](#)
[Wood I Beam™ Joists](#)
[XJ 85® I-Joists](#)

XJ 85® I-Joists



Find your ductwork's happy place. Run it in conditioned space.

The XJ 85® I-joist from Georgia-Pacific is an innovative engineering achievement, combining radical hole shaping and placement with the stiffness and quality you expect from Georgia-Pacific Wood Products. The strategically located pre-cut openings allow ductwork to be run in conditioned spaces, out of extreme attic temperatures. This helps lower heating and cooling loads, and helps increase energy efficiency. Plus, the lightweight construction and wider on-center spacing of the XJ 85 joists contribute to lower installed cost.

Inquiries

For sales inquiries or more information on the XJ 85 joist, please call 800-284-5347.

Look! The XJ 85 I-Joist found a happy place in **Builder Readers' 10 Favorite Products of '08**. See the complete list at [builderonline.com](#).

[Summary](#) [Specifications and Installation](#) [Warranty](#) [Safety and Sustainability](#) [Literature](#)

XJ 85® Wood I Beam Joists

- Strategically placed openings accommodate plumbing, wiring and duct work.
- Installing ductwork through the XJ 85 joist in conditioned spaces can help lower heating and cooling loads and improve energy efficiency.
- XJ 85 I-joists are available in 16" depth and standard lengths from 6'- 26' - trimmable on-site to fit perfectly.
- Flexible accommodation for plumbing, wiring, and HVAC saves time on planning and cutting holes in the joist.
- Openings are closer to the end of the beam, closer together, and wider than ever, providing increased architectural and construction versatility.
- Rounded corners of the openings contribute to smooth, fast installation.
- FASTBeam® and FASTPlan® software assists in providing structural analysis and planning for floor designs.
- Customers can take pride in reduced timber consumption, usage and the ecologically-friendly nature of engineered wood.



Lower Installed Cost

- Lightweight construction and wider on-center spacing reduce labor and materials. One worker can handle a 26' joist single-handedly.
- Pre-fabricated lengths, pre-cut holes, and on-site trimmability reduce wasted materials and time.
- Strength and load capacity minimize bounce and deflection - stiffer floors mean fewer callbacks and happier customers.
- A single layer, 1-hour fire-rated assembly is available.

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1. Product and Company Identification

Material name	WOOD AND WOOD PRODUCTS
Product use	Building Materials - Structural, Industrial or Decorative
Product List	See Product List found in Section 16
Synonym(s)	Softwood Plywood * Oriented Strand Board (OSB) * Hardboard (Standard, Tempered, Perforated, Paneling) * Lumber Products * Engineered Lumber (LVL, Wood-I-Joists, Rimboard)
Chemical description	Solid wood, such as lumber and wood products, such as softwood plywood, hardboard, oriented strand board and engineered wood products bonded with resin (phenol, phenol resorcinol, melamine formaldehyde-based, or polyvinyl acetate).
Manufacturer information	Georgia-Pacific Wood Products LLC 133 Peachtree Street, NE Atlanta, GA 30303 MSDS Request 404.652.5119 Technical Information 800.284.5347 Chemtrec - Emergency 800.424.9300

2. Hazards Identification

Emergency overview	Sawing, sanding or machining wood or wood products can generate dust. Wood dust may ignite or form explosive mixture with air. Product dust may be irritating to eyes, skin or respiratory system.
Target organs	Eyes, skin and respiratory system
Potential health effects	
Eyes	Dust or splinters may cause irritation or injury to the eyes.
Skin	Contact with skin may cause irritation.
Inhalation	Dusts of this product may cause irritation to the nose, throat, or respiratory tract.
Ingestion	Due to material form and application, ingestion is considered unlikely. May result in irritation of the digestive tract.

3. Composition / Information on Ingredients

Components	CAS #	Percent
Wood/Wood Dust	Not Assigned	60 - 100
Composition comments	Some lumber products may be sprayed with sap stain control coatings. The lumber is air or kiln dried. No chemical residue is left on the surface of the board. Wood products are bonded with phenol, phenol resorcinol, melamine formaldehyde-based, or polyvinyl acetate resin. Some wood products may be coated with finishes, sealants and or overlays.	

4. First Aid Measures

First aid procedures	
Eye contact	In case of contact, immediately flush eyes with large amounts of water, continuing to flush for 15 minutes. Do not rub the eyes. Get medical attention immediately.
Skin contact	If irritation develops, wash with soap and water. Get medical attention if irritation persists.
Inhalation	Remove from area of exposure. If the affected person is not breathing, apply artificial respiration. If persistent irritation, severe coughing or breathing difficulty occurs, get medical attention.
Ingestion	If wood or wood dust is swallowed, get immediate medical attention or advice -- Do not induce vomiting.

5. Fire Fighting Measures

General fire hazards	Wood is combustible when exposed to heat or flame. Wood dusts may form explosive mixtures with air in the presence of an ignition source. An airborne dust concentration of 40 g/m ³ of air is often used as the lower explosion limit (LEL) for wood dust. Avoid breathing dust or decomposition products.
Extinguishing media	
Suitable extinguishing media	Use methods for the surrounding fire.
Protection of firefighters	
Protective equipment and precautions for firefighters	Firefighters should wear full protective clothing including self contained breathing apparatus. Partially burned dust is especially hazardous if dispersed into the air. Wet down to reduce likelihood of ignition or dispersion. Remove burned or wet dust to open, secure area after fire is extinguished.
Explosion data	
Sensitivity to static discharge	Not available
Sensitivity to mechanical impact	Not available
Hazardous combustion products	Hazardous decomposition products may include irritating fumes or gases including carbon monoxide, aldehydes or organic acids.

6. Accidental Release Measures

Personal precautions	Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. Avoid inhalation of dust during clean up.
Methods for cleaning up	Vacuum or wet sweep small pieces and dust; place in appropriate container for disposal. Gather larger pieces by an appropriate method. Reduce airborne dust and prevent scattering by moistening with water.

7. Handling and Storage

Handling	Dust can form an explosive mixture in air. Provide appropriate exhaust ventilation at machinery and at places where dust can be generated. Use personal protective equipment as required. Avoid frequent or prolonged inhalation of wood dust. Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling. Keep away from heat and sources of ignition. Keep formation of airborne dusts to a minimum.
Storage	Store flat, supported and protected from direct contact with the ground. Keep in a well-ventilated place away from incompatible materials. Store in a cool dry place.

8. Exposure Controls / Personal Protection

Exposure guidelines	Georgia-Pacific Wood Products LLC voluntarily elects to adhere to exposure limits contained in OSHA's 1989 Air Contaminants Standard although certain limits were vacated in 1992. The present OSHA exposure limits governing wood dust is 15 mg/m ³ (Total Dust) and 5 mg/m ³ (Respirable Fraction).
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Wood/Wood Dust (CAS # Not Assigned)

	TWA	STEL	Ceiling
ACGIH	1 mg/m ³ TWA (Inhalable)	Not established	Not established
OSHA	5 mg/m ³ TWA (Total Dust) (Vacated)	10 mg/m ³ (Vacated)	Not established

Engineering controls	Due to the explosive potential of dust when suspended in air, precautions should be taken when sawing, sanding, or machining wood or wood products to prevent sparks or other ignition sources in ventilation equipment. Local exhaust ventilation is recommended when sawing, sanding, or machining this product. General dilution ventilation is recommended in processing and storage areas. Use wet methods, if appropriate, to reduce generation of dust.
Personal protective equipment	
Eye / face protection	Safety glasses or goggles are recommended when using product. Ensure compliance with OSHA's PPE standard (29 CFR 1910.132 and .133) for eye and face protection.

Skin protection	Impervious protective clothing and gloves recommended to prevent drying or irritation of hands. Ensure compliance with OSHA's PPE standards (29 CFR 1910.132 (general) and 138 (hand protection)). Safety shower/eye wash fountain is recommended in the workplace area (29 CFR 1910.151 (c)).
Respiratory protection	A NIOSH approved dust mask or filtering facepiece is recommended in poorly ventilated areas or when permissible exposure limits may be exceeded. Respirators should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134) and ANSI's standard for respiratory protection (Z88.2)

9. Physical & Chemical Properties

Appearance	Rigid boards or panels
Color	Various
Odor	Resinous wood
Odor threshold	Not available
Physical state	Solid.
pH	Not applicable
Melting point	Not applicable
Freezing point	Not applicable
Boiling point	Not applicable
Flash point	Not applicable
Evaporation rate	Not applicable
Flammability	Combustible
Flammability limits in air, upper, % by volume	Not available
Flammability limits in air, lower, % by volume	40 g/cm ³ for wood dust
Vapor pressure	Not applicable
Vapor density	Not applicable
Specific gravity	Variable
Relative density	Not available
Solubility (water)	Insoluble
Partition coefficient (n-octanol/water)	Not applicable
Auto-ignition temperature	399.2 - 500 °F (204.4 - 260 °C) for wood
Decomposition temperature	Not available
Bulk density	Not applicable

10. Chemical Stability & Reactivity Information

Chemical stability	Stable at normal conditions.
Conditions to avoid	Contact with incompatible materials. High temperatures. Heat, flames and sparks. Dust may form explosive mixture in air.
Conditions of Reactivity	None known.
Incompatible materials	Strong acids, alkalis, oxidizing agents and drying oils.
Hazardous decomposition products	Thermal decomposition may emit irritating fumes or gases of carbon monoxide, carbon dioxide, aldehydes, or organic acids.
Possibility of hazardous reactions	Will not occur.

11. Toxicological Information

Toxicological information	No toxicological data available for this product. Toxicological information for components of this product is listed below. Repeated inhalation of dust from this product may result in respiratory irritation. WOOD DUST. Wood dust may cause dryness, irritation, coughing or sinusitis. IARC and NTP classify wood dust as a carcinogen. This classification is based on the increased occurrence of adenocarcinomas of the nasal cavities and paranasal sinuses associated with exposure to wood dust. The evaluation noted insufficient evidence to associate cancer of the oropharynx, hypopharynx, lung, lymphatic and hematopoietic systems, stomach, colon or rectum with exposure to wood dust.
Irritancy	Product dust may cause irritation to eyes, skin and/or lungs.
Sensitization	Not applicable for softwoods.
Carcinogenicity	
Wood/Wood Dust (CAS # Not Assigned)	
IARC - Group 1 (Carcinogenic to Humans)	Monograph 62 [1995]
NTP (National Toxicology Program) - Report on Carcinogens - Known Human Carcinogens	Known Human Carcinogen
U.S. - OSHA - Hazard Communication Carcinogens	Present
Mutagenicity	Not available.
Reproductive effects	Not available.
Teratogenicity	Not available.
Synergistic materials	Not applicable.

12. Ecological Information

Ecotoxicity	Not available.
Environmental effects	Not available.

13. Disposal Considerations

Disposal instructions	Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. Dispose of material according to Local, State, Federal, and Provincial Environmental Regulations.
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14. Transport Information

Department of Transportation (DOT) Requirements

This product is not regulated as a hazardous material by the United States (DOT) transportation regulations

Canadian Transportation of Dangerous Goods (TDG) Requirements

Not regulated as dangerous goods.

15. Regulatory Information

US federal regulations	Wood and wood products are considered manufactured articles and are exempt under OSHA's Hazard Communication Standard 29 CFR 1910.1200. Wood dust, a by-product generated from sawing, sanding or machining wood and wood products, is considered hazardous and is regulated under the Hazard Communication Standard 29 CFR 1910.1200.
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Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories	Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No
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Section 302 extremely hazardous substance No

Section 311 hazardous chemical No

Section 313 hazardous chemical No

Inventory status

Country(s) or region	Inventory name	Compliant w/inventory requirements (yes/no)
Canada	Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes
Canadian regulations	This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.	

16. Other Information

Product list

Engineered Lumber Wood I Beam™ Joists and Broadspan™ I-Joists, GP Lam® LVL and Broadspan™ LVL, Fiberstrong® Rim Board

Lumber Sta-Strait™ Finger-Jointed Southern Yellow Pine Lumber, Solid Sawn Wood

Plywood Plytanium® Plywood, Plytanium® DryPly® Plywood, Sanded Pine Plywood, Cargo Panel Plywood, Plywood Sturd-I-Floor®, Plywood Rated Sheathing, Plywood Exterior Siding, Ply-Bead® Panels, Sanded Plywood Project Panels, PlyFrame® Panels, Plywood Underlayment, CDX Plywood; Plyform, T1-11 Textured Plywood Siding, Craftsman® Primer/Sealer Plywood Siding, Craftsman® Sanded Plywood

Oriented Strand Board (OSB) Oriented Strand Board (OSB), OSB Sturd-I-Floor®, OSB Rated Sheathing, Home Advantage® OSB Sturd-I-Floor®, DryGuard® OSB Sturd-I-Floor, Nautilus™ Wall Sheathing, Thermostat® OSB Radiant Barrier Roof Sheathing

Engineered Boards Hardboard, Hushboard® Sound Deadening Board, Coreboard, Uncoated Container Pack, Table Pad Substrate, Jubilee® RTP and White Ice Beadboard Paneling, Lionite® Tileboard Paneling, SuperWood® Industrial Panels, Mark-R Board, Chalk Board, Clutter Cutter™ Panels, UltraStrate® Industrial Panels

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HMIS® ratings

Health: 1*
Flammability: 1
Physical hazard: 0

NFPA ratings

Health: 1
Flammability: 1
Instability: 0

Disclaimer

The information and data herein are believed to be accurate and have been compiled from sources believed to be reliable. It is offered for your consideration, investigation and verification. Buyer assumes all risk of use, storage and handling of the product in compliance with applicable federal, state and local laws and regulations. Georgia-Pacific and its subsidiaries make no warranty of any kind, expressed or implied, concerning the accuracy or completeness of the information and data herein. The implied warranties of merchantability and fitness for a particular purpose are specifically excluded. Georgia-Pacific and its subsidiaries will not be liable for claims relating to any party's use of or reliance on information and data contained herein regardless of whether it is claimed that the information and data are inaccurate, incomplete or otherwise misleading.

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Supersedes

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Prepared by

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