Pursuant to Administrative Code Section 27-131, the following equipment or material has been found acceptable for use in accordance with the Report of Materials and Equipment Acceptance (MEA) Division.

Patricia J. Lancaster, A.I.A., Commissioner
MEA 141-03-E
Report of Material and Equipment Acceptance Division
Manufacturer – TrimJoist Corp., P.O. Box Drawer 2286, Columbus, MS MS39704.
Trade Name(s) – TrimJoist.
Product – TrimJoist.
Test(s) – ANSI/TPI 2-1995 Standard for Testing Metal Plate connected wood trusses.
Laboratory – PFS Corporation. 2402 Daniels Street, Madison, WI 53718. In plant qualification testing is conducted by TrimJoist Corp., and witnessed by PFS Corp. Design properties and Allowable Floor Spans were certified by Jiemping Wang P.E., New York State License Number 074354-1.
Description –

TrimJoist Corporation manufactures one type of product that is a wooden, open-web, parallel chord, steel plated floor joist with trimmable, I-shaped sections at both ends. The manufacturing facility is located in Columbus, Mississippi.

The chords are high quality (Grade 1 or better) Southern Pine. The trimmable end sections consist of nominally 23/32 inch thick Oriented Strand Board (OSB) held between the top and bottom chord by a structural adhesive. The diagonal webs are Southern Pine and are held in place with metal connector plates. There is also a vertical Southern Pine post at the inboard margin of each trimmable end section to mark the extent to which the joist may be trimmed and to allow the joist to function as would an ordinary custom built floor truss in the event that both ends were trimmed to the maximum allowed.

The solid outboard end sections of the TrimJoist product may be trimmed to a required length on a jobsite to fit the requirements of a given application unlike custom floor trusses that are built to a specific length. This allows the TrimJoist product to be mass produced by an assembly line process subject to elevated Quality Assurance methods thereby making product performance more reliable and predictable.

The TrimJoist product is made in four depths, being 11 1/4, 14, 16, and 18 inches. The maximum length for the 11 1/4 inch deep joist is 24 feet. The maximum length for the 14 inch deep joist is 26 feet. The maximum length for the 16 inch deep joist is 28 feet. And the maximum length for the 18 inch depth is 30 feet.
Meaufactures the following model numbers:

J1204, J1206, J1208, J1210, J1212, J1214, J1216, J1218, J1220, J1222, J1224, and
J1404, J1406, J1408, J1410, J1412, J1414, J1416, J1418, J1420, J1422, J1424, J1426, and
J1604, J1606, J1608, J1610, J1612, J1614, J1616, J1618, J1620, J1622, J1624, J1626, J1628, and

The "J" that commences each model number is merely an identifier. The next two numbers indicate the
depth of the TrimJoist in inches (the J12 TrimJoists are actually 11 1/4" deep such that they are
architecturally compatible with 2 x 12 sawn boards). The last two numbers in the model number
indicate the untrimmed length of the TrimJoist in feet. By way of an example, a "J1420" is fourteen
inches deep and twenty feet long when it leaves the plant.

The TrimJoist products are made to inventory and then used as floor, ceiling or roof joists. The products
are used in projects in accordance with the TrimJoist Project Design System (TPDS) which is a software
program developed specifically for the analysis of the TrimJoist product under specific conditions of
span and load.

In regards to the TrimJoist product, and its compliance with governing building codes, all TrimJoist
have been designed in accordance with the recommendations of the Truss Plate Institute (TPI). Since
all model building codes reference TPI in the area of metal-plate-connected wood trusses, we are by
implication approved under these codes.

The raw material components in a TrimJoist are all structurally rated by various independent agencies
such as the Southern Pine Inspection Bureau, American Plywood Association, and the American
Society for Testing and Materials.

Additional measures for in-house Quality Assurance such as 3rd party monitoring help assure the
materials used in a TrimJoist are meeting the criteria under which they were designed. PFS
Corporation of Madison, Wisconsin provides the periodic auditing of the Quality Assurance program.

Since TrimJoist is manufactured in Mississippi and sold nationally we have met compliance with
various building code regulations, departments and officials from all types of municipalities through-out
the country.

For additional information, visit the TrimJoist Corporation website:

www.trimjoist.com

and/or review the contents of the TrimJoist Corporation publication Floor Application Guide.
TrimJoist Project Design System

Version 4.0

Geometric Data
- Span: 24' C.000"
- Trim(L): C'0.000"  
- Trim(R): C'0.000"  
- Depth: 11.25"

Value Adjustment Factors
- Lumber/Plate Duration: 1.00
- Repetitive Member: 1.15

Uniform Loading
- Spacing: 12.00"
- TC Live: 40 psf
- Dead: 10 psf
- BC Dead: 5 psf

Maximum Axial Forces, CSIs & Deflections
- Def Dead: 0.28 L/1019
- Def Live: 0.75 L/362
- Def Total: 1.04 L/278
- P Top: 4851 Lbs C CSI=0.35
- P Bottom: 4851 Lbs T CSI=0.62
- P Webs: 997 Lbs C CSI=0.32

Reactions (Min Eng Width)
- Total Node: 1 659.89 Lbs (1.50")
- Total Node: 29 659.83 Lbs (1.50")

Design Considerations
- No Cantilever(s) have been considered
- No Concentrated Loads have been considered
- Product design conforms to NDS 1991
- Placing conforms to IBCO §5243
- ANSI/TP1-1995 (Truss Plate Institute)
- Deflections assume no composite action

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This design is for an individual component only and is based on information provided to TrimJoist Corporation by other parties. TrimJoist Corporation disclaims any and all responsibility for damages as a result of faulty, incorrect, or incomplete information, specifications, or designs supplied by other parties. The loads shown herein, and other design assumptions, must be verified by the building owner or his agent. Trusses are to be handled and erected in accordance with the "THB-91" document as published by the Truss Plate Institute (TP1). Contractor must prevent excessive loads during construction. All temporary and permanent bracing that may be required must be specified and installed by others. All Chord material is 2x4 #1SP grade or better. All web material is 2x4 #1SP grade or better. Any design considerations marked "L" were inserted by the user of the TrimJoist Project Design System, and not by TrimJoist Corporation. Any impression, seal, or original stamp affixed hereon by any Registered Engineer or Architect indicates this design was made under the oversight of said Engineer or Architect.

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TrimJoist Project Design System

Geometric Data
- Span: 26'0.000"
- Trim(L): 0'0.000"
- Trim(R): 0'0.000"
- Depth: 14.01"

Value Adjustment Factors
- Lumber/Plate Duration: 1.00
- Repetitive Member: 1.15

Uniform Loading
- Spacing: 12.00"
- TC Live: 40 psf
- Dead: 10 psf
- BC Dead: 5 psf

Maximum Axial Forces, CSIs & Deflections
- Def Dead: 0.24 L/1304
- Def Live: 0.64 L/488
- Def Total: 0.88 L/355
- P Top: 4426 Lbs C CSI=0.30
- P Bottom: 4426 Lbs T CSI=0.56
- P Webs: 952 Lbs C CSI=0.31

Reactions (Min Brng Width)
- Total Node: 1 714.99 Lbs (1.50"
- Total Node: 31 714.96 Lbs (1.50"

Design Considerations
- No Cantilevers have been considered
- No Concentrated Loads have been considered
- Product design conforms to NDS 1991
- Plating conforms to ICBO #5243
- ANSI/TPD-1993 (Truss Plate Institute)
- Deflections assume no composite action

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TrimJoist Project Design System

Geometric Data
Span: 23'0.000''
Trim(L): 0'0.000''
Trim(R): 0'0.000''
Depth: 16.03''

Value Adjustment Factors
Lumber/Plate Duration: 1.00
Repetitive Member: 1.15

Uniform Loading
Spacing: 12.00''
TC Live: 40 psf
Dead: 10 psf
BC Dead: 5 psf

Maximum Axial Forces, CSIs & Deflections
Def Dead: 0.24 L/1398
Def Live: 0.64 L/523
Def Total: 0.88 L/330
P Top: 4431 Lbs C CSI=0.30
P Bottom: 4430 Lbs T CSI=0.56
P Web: 962 Lbs C CSI=0.12

Reactions (Min Brng Width)
Total Node: 1 769.95 Lbs (1.50'')
Total Node: 33 769.95 Lbs (1.50'')

Design Considerations
- No Cantilever(s) have been considered
- No Concentrated Loads have been considered
- Product design conforms to NDS 1991
- Plating conforms to ISO 45243
- ANSI/TPi-1995 (Truss Plate Institute)
- Deflections assume no composite action

MEA 141-03-E

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TrimJoist Project Design System

Geometric Data
- Span: 30' 0.000"
- Trim(L): 0' 0.000"
- Trim(R): 0' 0.000"
- Depth: 18.00"

Value Adjustment Factors
- Lumber/Plate Duration: 1.05
- Repetitive Member: 1.15

Uniform Loading
- Spacing: 12.00"
- TC Live: 40 psf
- TC Dead: 10 psf
- RC Dead: 5 psf

Maximum Axial Forces, CSI & Deflections
- Def Dead: 0.25 L/1468
- Def Live: 0.66 L/549
- Def Total: 0.93 L/400
- P Top: 4477 Lbs C CSI=0.30
- P Bottom: 4477 Lbs T CSI=0.56
- P Webs: 984 Lbs C CSI=0.33

Reactions (Min Brwth Width)
- Total Node: 1 825.06 Lbs (1.50"
- Total Node: 35 825.03 Lbs (1.50"

Design Considerations
- No Cantilever(s) have been considered
- No Concentrated Loads have been considered
- Product design conforms to NDS 1992
- Plating conforms to ICBO #5243
- ANSI/TPI-1995 (Truss Plate Institute)
- Deflections include no composite action

MEA 141-03-E 6 of 13 pages

This design is for an individual component only and is based on information provided to TrimJoist Corporation by other parties. TrimJoist Corporation disclaims any and all responsibility for damages as a result of faulty, incorrect, or incomplete information, specifications, or designs supplied by other parties. The loads shown herein, and other design assumptions, must be verified by the building owner or his agent. Trusses are to be handled and erected in accordance with the "HIB-91" document as published by the Truss Plate Institute (TPI). Contractor must prevent excessive loads during construction. All temporary and permanent bracing that may be required must be specified and installed by others. All Chord material is 2x4 #ISP grade or better. All web material is 2x4 #ISP grade or better. Any design considerations marked "U." were inserted by the user of the TrimJoist Project Design System, and not by TrimJoist Corporation. Any impression, seal, or original stamp affixed hereto by any Registered Engineer or Architect indicates this design was made under the oversight of said Engineer or Architect.
Recommendation – That the above TrimJoists be accepted on condition that all uses, locations and installations shall comply with the applicable requirements of the New York City Building Code and Technical Policy and Procedure Notice #8, 1992, dated August 19, 1992 (attached), TPPN #2, 2000 dated July 24, 2000 (attached) and on further condition that:

1. All provisions of TPPN #8, 1992 and TPPN #2, 2000 for TRIM Joists that are applicable shall be complied with.

2. Structure designs using the TrimJoists shall conform to the manufacturer's specifications except that appropriate design load(s), deflection, limitation(s) and other performance standards of the New York City Building Code shall apply.

3. The glue used shall not delaminate during a fire.

4. TrimJoists shall be used indoors.

5. When stored out-of-doors, or exposed to wet weather conditions, during construction TrimJoists shall be inspected by the user for flange-web separation, swelling or warping and replaced if so damaged.

6. The size and location of any cutouts in the web of the joist shall not exceed the manufacturer's recommendations and shall be subject to controlled inspection.

7. TrimJoist flanges may not be cut, notched or bored.

8. Firestopping shall be provided between the ceiling and the floor or roof above and shall be divided into approximately equal areas not greater the 500 square feet.

9. The building permit applicant shall notify the Fire Department of the proposed installation of TrimJoists prior to the Building Department issuance of a construction permit. Evidence of such notification shall be a certifying statement submitted on Form TR-1, Technical Report, reading as follows:

I hereby state that I have mailed a copy of the statement to the Fire Department, Bureau of Fire, Technology Management Unit, as notification of the proposed installation of Wood I Beams at this location.
This statement shall be placed on the reverse side of the form in the lower right-hand box.

The copy of the completed form TR-1 shall be mailed to the new address at:

Chief-In-Charge of the Bureau of Fire Prevention
Fire Department
Bureau of Fire Prevention
Technology Management Unit
9 MetroTech Center
Brooklyn, New York 11201-3857

All shipments and deliveries of TrimJoists shall be provided with a permanent marking suitably placed, certifying that the materials shipped or delivered is equivalent to those tested and accepted for use, as provided for in Section 27-131 of the Building Code.

Final Acceptance __________

Examed by __________

October 9, 2003
TECHNICAL POLICY AND PROCEDURE NOTICE # 8/92

TO: Distribution
FROM: Richard C. Visconti, A.I.A.
DATE: August 19, 1992
SUBJECT: Laminated Wood "I" Beams

PURPOSE: To interpret the requirements of the Administrative Code, Sections 27-617 and 27-620, pertaining to firestopping requirements per RS 10-8 and Inspection of Methods of Construction per Table 10-2 for laminated wood "I" beams used in fire resistance rated floor/roof-ceiling assemblies.

To establish a new administrative procedure for applicant notification to the Fire Department of proposed use of laminated wood "I" beams.

SPECIFICS:

1. Firestopping

Reference Standard RS 10-8, Section 9.2.1 - General Requirements for Firestopping states that, "the space between the ceiling and the floor or roof above shall be divided by providing firestopping where ceilings are suspended below solid joists or suspended from or attached directly to the bottom of open wood floor trusses in buildings of combustible construction."

The Department now interprets the requirement to comply with the firestopping provisions of Section 9.2.1 et seq. to include laminated wood "I" beam assemblies. Therefore, the space between the ceiling and the floor or roof above shall be divided into approximately equal areas not greater than 500 square feet.
Firestopping is subject to controlled inspection pursuant to Section 27-345.

2. Inspection of Methods of Construction

Table 10-2 - Operations on Structural Elements that shall be Subject to Controlled Inspection, lists the "Fabrication of glue-laminated assemblies and of plywood components."

The Department now interprets the requirement to comply with the controlled inspection provision of Table 10-2 to include laminated wood "I" beams. Therefore, the cutting of openings for ducts, pipes, conduit, etc. in laminated wood "I" beams shall be considered fabrication and, therefore, subject to controlled inspection.

3. Notification

The applicant shall be required to notify the Fire Department of the proposed installation of laminated wood "I" beams prior to the Department issuing a construction permit. Evidence of such notification shall be a certifying statement submitted on Form TR-1, Technical Report, reading as follows:

I hereby state that I have mailed a copy of this statement to the Fire Department, Bureau of Fire Prevention, Technology Management Unit, as notification of the proposed installation of laminated wood "I" beams at this location.

This statement shall be placed on the reverse side of the form in the lower right-hand box.

The copy of the completed Form TR-1 shall be mailed to:

Chief-in-Charge of the Bureau of Fire Prevention
Fire Department
Bureau of Fire Prevention
Technology Management Unit
250 Livingston Street
Brooklyn, NY 11201-5884

cc: Chief John Hodgens
TECHNICAL
POLICY AND PROCEDURE NOTICE #2/00

TO: Distribution
FROM: Satish K. Babbar, R.A.
DATE: July 24, 2000
SUBJECT: Semi-Controlled Inspection for Structural Light Gage Cold-Formed Steel, Plate Connected Wood Floor Trusses and Laminated Wood "I" Beams

EFFECTIVE: Immediately

SUPERCEDES: Brooklyn Borough Memorandum by Borough Superintendent George E. Berger dated August 11, 1983.

BACKGROUND: There have been several structural failures involving lightweight floor construction. Professional inspection is needed during construction of buildings and other structures utilizing it in order to insure that the delivered members are not damaged or defective, the installation is proper and safeguards are taken to prevent failure.

PURPOSE: To set forth the requirements for the semi-controlled inspection of the construction, including size, quality, framing, erection and both temporary and permanent bracing of light gage cold-formed steel structural members, plate connected wood floor trusses and laminated wood "I" beams.

REFERENCE: Section 27-132(b) of the Administrative Code.
SPECIFICS:

REQUIREMENTS: The plans submitted for approval/acceptance/professional certification showing these members shall be complete including member sizes, positions, locations, permanent and temporary bracing, fasteners (location, type and spacing), stiffeners, connections, etc., as needed for the proper erection of the structure.

The construction of all light gage cold-formed steel structural members, plate connected wood floor trusses and laminated wood "I" beams shall be subject to semi-controlled inspection for size, quality, framing, erection and both temporary and permanent bracing, as set forth below.

Size Profiles used structurally shall conform to the specified dimension. Care shall be taken not to stretch, bend, or otherwise distort parts of the sections unless such forming is in the integral part of the design.

Quality All materials shall be clean, straight, and undamaged. Damaged members shall be discarded. Only BSA/MEA approved laminated wood "I" beams shall be used. Glue shall completely bond all laminated wood "I" beam surfaces being joined. Quality Control for the erection of all members shall be under the supervision of the professional designated to perform the semi-controlled inspection.

Framing Components may be cut by slitting, shearing, sawing, or flame cutting, as appropriate, in accordance with manufacturers' instructions and the design drawings. All punched holes and sheared or flame cut edges of material in members subject to calculated stress shall be clean and free from notches and burr edges. The approved/accepted/professionally certified drawings shall be adhered to regarding member dimensions, locations, positions, beam separators, bearing surfaces and fasteners, including shear connectors, plate connectors, screws, bolts and welds, as applicable.
Erection  Care shall be taken to avoid damage to members when erecting, loading, unloading and otherwise handling them.

Bracing  Temporary bracing, shoring, jacks, etc. shall not be removed until the registered architect or professional engineer determines that they are no longer needed. Permanent bracing, web stiffeners, bridging, wind bracing, etc. shall be installed according to the approved/accepted/professionally certified drawings.

INSPECTIONS AND REPORT TO BE SUBMITTED: These inspections are to be performed by, or under the direct supervision of, licensed professional engineers or registered architects, who shall submit form(s) TR-1 indicating the following: "Semi-controlled inspection of light gauge cold-formed steel structural members, plate connected wood floor trusses or laminated wood "I" beams (as applicable) per TPPN #2/00".

SKB:NJG:ng