

7300 SW OLESON RD. DFS-01 CO03-102648

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Tecna Industries

Roof and Floor Truss Manufacturing

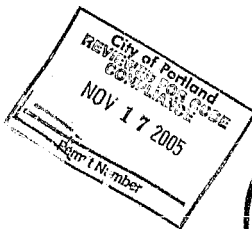


Tecna Industries, Inc.
2003 Colvin Court
McMinnville, OR 97128
Email: Tecna@online.tecna.com
Telephone: 503 472-8880
Fax: 503 472-2790

Fax

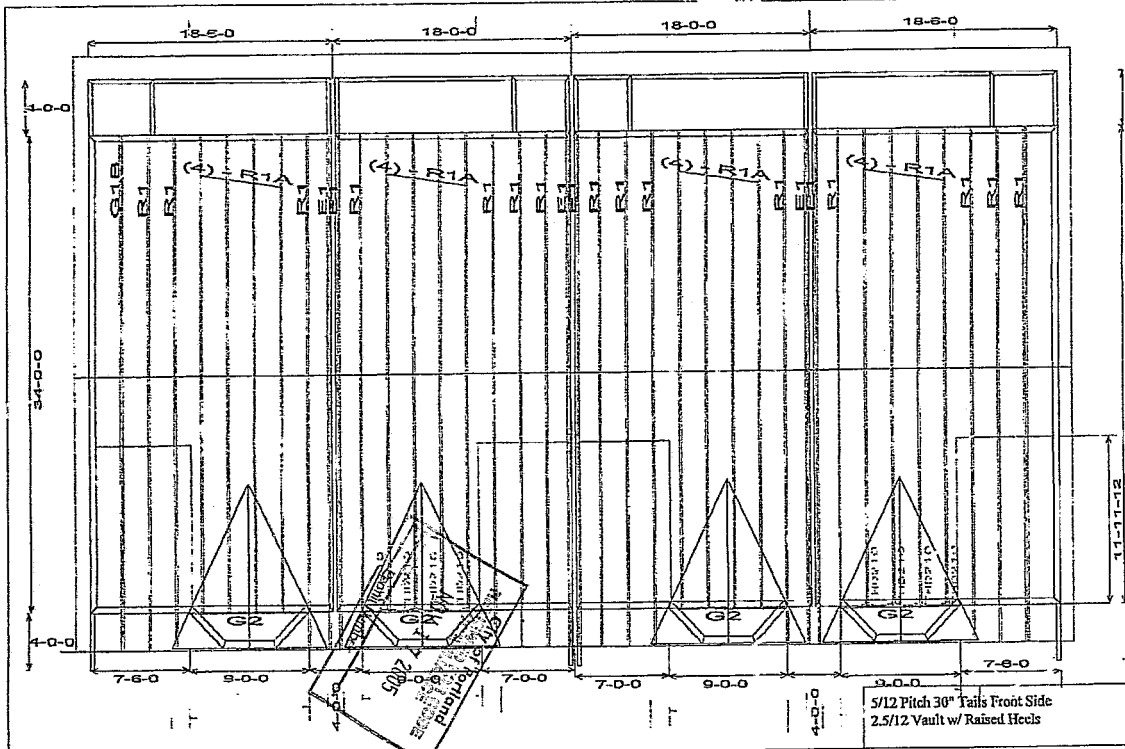
To: JHC Commercial LLC From: Dwane Carver
Fax: 503-684-8285 5295 Pages: 12
Phone: 503-624-7100 Date: 7/22/2005
Re: Engineering & Layout for Olesen Apts. CC:
☐ Urgent ☐ For Review ☐ Please Comment ☐ Please Reply ☐ Please Recycle

• Comments:



03-102648-DFS-01-00

MICRO 2



Tecna Industries, Inc.

2083 Colvin Court
McMinnville
OR 97128
tecna@onlineinc.com
Telephone: 503-472-8880
Fax: 503-472-2790

Name: JHC Commercial, LLC
Address: Garden Home-Summit Apt.
7410 SW Olsson Rd
Portland
OR 97223
Telephone:

Concepcion P. Dutra Architect-8-ant

Job:

6880

Revised: 1/2/96

Date: 1/2/2005

Drawn By: dw

**MITek Industries, Inc.**

7777 Greenback Lane
Suite 109
Citrus Heights, CA, 95610
Telephone 916/678-1900
Fax 916/678-1909

Re: 6880

Cameron F Dutz Arch.- 8 unit Apt.

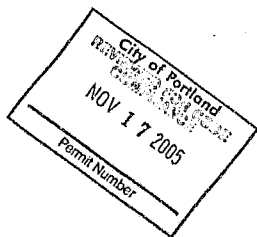
The truss drawing(s) referenced below have been prepared by MITek Industries, Inc. under my direct supervision based on the parameters provided by Tacna Industries.

Pages or sheets covered by this seal: R14792457 thru R14792462

My license-renewal date for the state of Oregon is December 31, 2005.



EXPIRATION DATE: 12-31-05



January 6, 2005

Anderson, Bob

The seal on these drawings indicate acceptance of professional engineering responsibility solely for the truss components shown. The suitability and use of this component for any particular building is the responsibility of the building designer, per ANSI/TPI-1995 Sec. 2.

TECNA INDUSTRIES, McMINNVILLE, OR 97128, Dean Wagner.



LUMBER		BRACING	
TOP CHORD	2 X 6 DF SS G	TOP CHORD	Structural wood sheathing directly applied or 6-0 D oc purlins, except end verticals.
BOT CHORD	2 X 6 OF SS G	BOT CHORD	Right cutting directly applied or 8-0 D oc bracing.
WEBS	2 X 4 DF SS G		
OTHERS	2 X 4 OF SS G		

Max Hops 37-41 (load case 7), 20=107 (load case 8), 30=28 (load case 7), 31=34 (load case 7), 52=40 (load case 7), 33=40 (load case 7), 34=32 (load case 7), 35=27 (load case 7), 38=110 (load case 7), 28=30 (load case 8), 26=65 (load case 8), 26=37 (load case 8), 21=49 (load case 8), 31=60 (load case 8), 22=47 (load case 8), 21=107 (load case 8)

Max Uplift 37-185 (load case 2), 20=623 (load case 3), 29=177 (load case 1), 30=234 (load case 1), 31=239 (load case 1), 32=239 (load case 1), 33=234 (load case 1), 34=234 (load case 1), 35=209 (load case 2), 38=326 (load case 2), 26=236 (load case 3), 28=231 (load case 3), 26=238 (load case 3), 24=234 (load case 3), 23=132 (load case 3), 22=231 (load case 3), 21=161 (load case 3)

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NOTES

- 1) Wind: ASCE 7-98; $w_{0.01} = 20$ ft; $TCDL = 4$ ft; $BCL = 2$ ft; Category I; Exp B; enclosed; HWRFB double end zone; cantilever left and right exposed; and vertical lift exposed; porch left and right exposed; Lumber DCL = 1,15 psia gird GCL = 16.
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), use a Mittek "standard Gable End Detail".
3) $TCDL = ASCE 7-98$; $PM = 25.0$ psf (roof area); Exp B; Fully Exp.
4) Unbraced open webs have been checked for local buckling.
5) Windings have been designed for 3.00 Hertz but could be of 25.0 rad on overtones non-concurrent with other live loads.

Continued on page 2



EXPIRATION DATE: 12-31-05

January 8, 2005

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7777 Greenback Lane
Suite 100
Fountain Valley, CA 92708

MITOK

Job	Truss	Truss Type	Qty	Qty	Common P. Note Arch. - 6 unit Apt.	
9060	E1	COMMON	6	1	Job Reference (optional)	R14762457

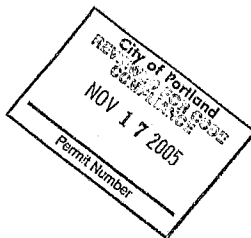
TEGNA INDUSTRIES, McMINNVILLE, OK 67126, Dean Wegner

6.000 * Jun 17 2004 Mittek Industries, Inc. Wed Jan 05 16:37:23 2005 Page 2

NOTES

- 6) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 7) All plates are 1.5x4 MIT20 unless otherwise indicated.
- 8) The truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
- 9) Gable requires continuous bottom chord boarding.
- 10) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 11) Gable studs spaced at 2'-0" o.c.
- 12) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 13) A plate girding reduction of 20% has been applied for the green lumber members.
- 14) This truss is designed in accordance with the 2003 International Building Code section 2305.1 and referenced standard ANSI/TPI 1.

LOAD CASE(8) Standard



WARNING - Verify design parameters and READ NOTES on THIS AND INCLUDED MITTEK REFERENCE PAGE MS-1415 BEFORE USE.
 Design valid for use only with Mittek connectors. The design is based only upon parameter items, and is for on individual building component.
 Applicability of design parameters and proper interpretation of component is responsibility of building designer - not Mittek. Designing shown
 is for general report of individual with moment only. Additional temporary bracing to insure stability during construction is the responsibility of the
 engineer. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general reference regarding
 construction, quality control, storage, delivery, erection and loading, consult ANSI/TPI Quality Criteria, D16-01 and SC11 Building Component
 Safety Information available from TNA Truss Institute, 6635 Onslow Drive, Madison, VA 22119.

7777 Greenwood Lane
 Suite 110
 Chico Heights, CA, 95015

MITTEK
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Job	Truss	Truss Type	Qty	File	Customer P. Build Arch. - 8 Inc. AEL	R14702400
5580	G15	ROOF TRUSS	2	2	Job Reference (optional)	

TECHNA INDUSTRIES, McMinnville, OR 97128, Dean Wegner

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NOTES

12) This truss is designed in accordance with the 2003 International Building Code section 2305.1 and referenced standard ANSUTP1 1.

LOAD CASE(S) Standard



WARNING - Verify design parameters and READ NOTE ON THIS AND RELEVANT NOTES BEFORE USE.
Design valid for use only with MITek connections. No design is based on any personnel shown, and it is on the listed building component.
Actual capacity of design parameters and proper incorporation of component is responsibility of building designer, not truss designer. Trussing shown is for general support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For standard guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSUTP1 Quality Criteria, D11-41 and NC111 Building Component Safety Information available with this Truss Package, 441 D'Onofrio Drive, Madison, WI 53718.

2777 Greenbush Lane
Suite 101
Corte Madera, CA 94529

MITek

Job	Truss	Truss Type	City	Qty	Customer / Project Name	Reference
6680	02	COMMON	4	1	Cameron P Dutz Arch., 6 unit Apt.	R14782450

TECNA INDUSTRIES, MCLENNANVILLE, OH 43128, Dean Wegner

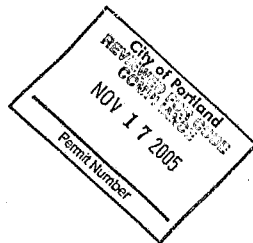
Buck's Jun 17 2004 McLen Industries, Inc. Wed Jan 05 16:37:26 2005 Page 2

LOAD CASE(S) Standard

1) Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (pl)

Vert: 8-8=882 (F=602), 1-3=64, 3-5=84



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK PERFORMER PAGES PRIOR TO USE.
 Design valid for use only with Mitak connections. This design is based only upon parameters shown, and is for on individual building component.
 Application of design assumptions and proper incorporation of component in possibility of building design - real time design, bearing down
 is limited to support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the
 erector. Additional permanent bracing of the overall structure is the responsibility of the building designer in general guidance regarding
 bracing, stability control, storage, delivery, erection and bracing, consult AMT (MIT) Quality Control, 514-470-0000 and MCN Building Component
 Safety Information available from your field engineer, 883 D Oneida Drive, Madison, WI 53717.

7777 CHURCH LANE
 Suite 101
 Chula Vista, CA 92010

MIT
Mitek

TECNA INDUSTRIES, NORTONVILLE, OR 97120, Dean Wagner 0.000 a Jun 17 2004 MITek Industries, Inc. Wed Jan 03 10:37:28 2005 Page 1



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SEP 13 1955

LOAD CASE(S) Standard

17 C. AND.

ESTABLISHED BY ACT OF CONGRESS
MARCH 3, 1877

EXPIRATION DATE: 12-31-9

100

January 2, 1994

7777 Broadway Lane

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is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the

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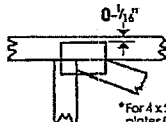
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Symbols

PLATE LOCATION AND ORIENTATION



* Center plate on joint unless x, y offsets are indicated. Dimensions are in 1/16-inch increments. Apply plates to both sides of truss and securely seal.



* For 4 x 2 orientation, locate plates 0 1/4" from outside edge of truss.



* This symbol indicates the required direction of slots in connector plates.

* Plate location details available in Mitek 20/20 software or upon request.

PLATE SIZE

4 x 4

The first dimension is the width perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING



Indicated by symbol shown and/or by text in the bracing section of the output. Use T, I, or Eliminator bracing if indicated.

BEARING

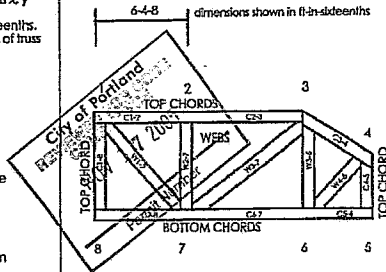


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

Industry Standards:

ANSI/TPI-1: National Design Specification for Metal Plate Connected Wood Truss Construction.
 DSB-89: Design Standard for Bracing.
 BCSH: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

CONNECTOR PLATE CODE APPROVALS

BL	96-31, 95-43, 96-20-1, 96-67, 84-32
ICBO	4922, 5243, 5363, 3907
SRCCI	9667, 9730, 9804B, 9511, 9432A



Mitek Engineering Reference Sheet: MII-7473



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSH.
2. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
3. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
4. Cut members to bear tightly against each other.
5. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI-1.
6. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI-1.
7. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
8. Unless expressly noted, this design is not applicable for use with fire retardant or preservative treated lumber.
9. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
10. Plate type, size, orientation and location dimensions shown indicate minimum plating requirements.
11. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
12. Top chords must be sheathed or purlins provided at spacing shown on design.
13. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
14. Connections not shown are the responsibility of others.
15. Do not cut or alter truss member or plate without prior approval of a professional engineer.
16. Install and load vertically unless indicated otherwise.

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