

**MAINE DESIGN CRITERIA**

2009 INTERNATIONAL RESIDENTIAL CODE W/EXCEPTIONS  
 2011 NFPA 31 STD FOR THE INSTALLATION OF OIL BURNING EQUIP.  
 2009 NFPA 54 NATIONAL FUEL GAS CODE  
 2008 NFPA 58 LIQUIFIED PETROLEUM GAS CODE  
 2011 NFPA 70 NATIONAL ELECTRICAL CODE W/EXCEPTIONS  
 2010 NFPA 211 STANDARDS FOR CHIMNEYS, FIREPLACES, VENTS AND SOLID FUEL BURNING APPLIANCES  
 2009 UNIFORM PLUMBING CODE W/EXCEPTIONS  
 2011 STATE OF MAINE OIL AND SOLID FUEL BOARD LAW & RULES

**CONSTRUCTION TYPE**

IRC: Wood Frame Unprotected VB

**USE GROUP CLASSIFICATION**

IRC: SINGLE FAMILY

**OCCUPANCY**

ONE FAMILY DWELLING

**DESIGN BASIS**

NON SLEEPING AREA  
 LIVE LOAD=40 PSF  
 DEAD LOAD=10 PSF OR ACTUAL WEIGHT  
 WIND LOAD  
 WINDWARD SIDE=25 PSF (8)=20 PSF  
 UPLIFT: ROOF=20(1.25)=25 PSF  
 OVERHANGS=25(2)=50 PSF  
 WIND SPEED (3-sec) LESS THAN 100 MPH

**GROUND SNOW LOAD=50 PSF**

TRUSSES TOP CHORD LIVE LOAD=34.7 PSF  
 TRUSSES TOP CHORD LIVE LOAD(VALLEY SET)=34.7 PSF  
 TOP CHORD DEAD LOAD=10 PSF  
 BOTTOM CHORD DEAD LOAD=10 PSF

**HEATING**

SUPPLY AND INSTALLATION OF FUEL-FIRED HEATING EQUIPMENT BY BUILDER/OWNER  
 HOT WATER BASEBOARD HEATING, ELEMENTS ONLY INSTALLED IN FACTORY FOR FIELD-CONNECTION BY OTHERS TO HOT WATER FURNACE  
 HEAT LOSS CALCULATIONS AND INSTALLED HEATING QUANTITIES AS PER HEATING PLAN  
 SUPPLY AND INSTALLATION OF FLUE/VENTING ON SITE BY BUILDER/OWNER

**GENERAL NOTES**

ALL DOCUMENTS, DRAWINGS, CONCEPTS, SPECIFICATIONS, AND DESIGNS CREATED BY PRESTIGE HOMES INC. ARE THE SOLE PROPERTY OF PRESTIGE HOMES INC. AND ARE SUBJECT TO COPYRIGHT PROTECTION UNDER THE CANADIAN INTELLECTUAL PROPERTY ACT. ALL METHODS OF CONSTRUCTION AND DETAILS SHALL BE KEPT CONFIDENTIAL. ANY ATTEMPT AT UTILIZING THESE DOCUMENTS, DRAWINGS, CONCEPTS, SPECIFICATIONS, AND/OR DESIGNS IN WHOLE OR IN PART WITHOUT EXPRESS WRITTEN PERMISSION IS STRICTLY PROHIBITED.  
 PRESTIGE HOMES INC. WILL BE CONSIDERED AS A "SUB-CONTRACTOR" IN ALL BUILDING PROJECTS, SUPPLYING A BUILDING COMPONENT TO A "GENERAL CONTRACTOR" OR "BUILDER". THE DOCUMENTS, DRAWINGS, AND SPECIFICATIONS ENCLOSED ARE FOR DESCRIBING AND DETAILING THE PROPER USE OF OUR MANUFACTURED BUILDING MODULE AND ITS CONSTRUCTION. COMPLETE BUILDING PROJECT DESIGN (EG. SITE, FOUNDATION, DECK, PORCHES, ETC.) SHALL BE BY THE BUILDER/OWNER CONTRACT. ALL NOTES PERTAINING TO "IN FIELD", "ON SITE", "BY BUILDER", AND "BY OTHERS" SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.  
 THESE PLANS MUST NOT BE SCALED FOR DIMENSIONAL REFERENCE. ALL DIMENSION LINES AND NOTES SUPERCEDE ANY SUCH REFERENCES.  
 THE THIRD PARTY AGENCY SHALL BE PFS CORP.. LABELS SHALL BE LOCATED AS FOLLOWS: STATE INSIGNIA, DATA, WARRANTY AND THIRD PARTY LABELS SHALL BE LOCATED ON WALL BELOW KITCHEN SINK. ADDITIONAL THIRD PARTY LABELS SHALL BE ONE LABEL PER MODULE. (UNDER SINK AND IN BEDROOMS)

**HOUSE SPECIFICATIONS**

1. DIMENSIONS 55x32
2. ELEVATIONS TWO STOREY
3. ROOF PITCH 6/12
4. CEILING 8 FT
5. GARAGE IN FACTORY
6. BEDROOM(S) FOUR
7. BATH(S) FOUR
8. SQ. FOOTAGE 3256
9. INT. FINISH GYPSUM BD

**SHIPPING TO**

STREET: 69 FALL BROOK STREET  
 CITY: PORTLAND  
 STATE: MAINE

**PFS CORPORATION**  
**Approval Limited to Factory Built Portion Only**

State: **Maine**  
 Signature: *Harold Raup*  
 Title: **Staff Plan Reviewer**  
 Date: **3/3/17**



Date Received at PFS \_\_\_\_\_  
 IBC Transmittal No. (by PFS) \_\_\_\_\_  
 Project No. (by PFS) \_\_\_\_\_

**ADDITIONAL OR MODIFIED ACCEPTANCE (MODULARS/PANELIZED)**

This form is to be used only when the manufacturer is seeking acceptance of an additional model, modified model or model name change which uses a previously accepted building system.

Current PFS Building System Acceptance # 533  
 Model Name/No. 12827A TWO STOREY DUPLEX  
 Manufacturer's Name Prestige Homes  
 Plant(s) at which model will be produced Sussex, New Brunswick Canada

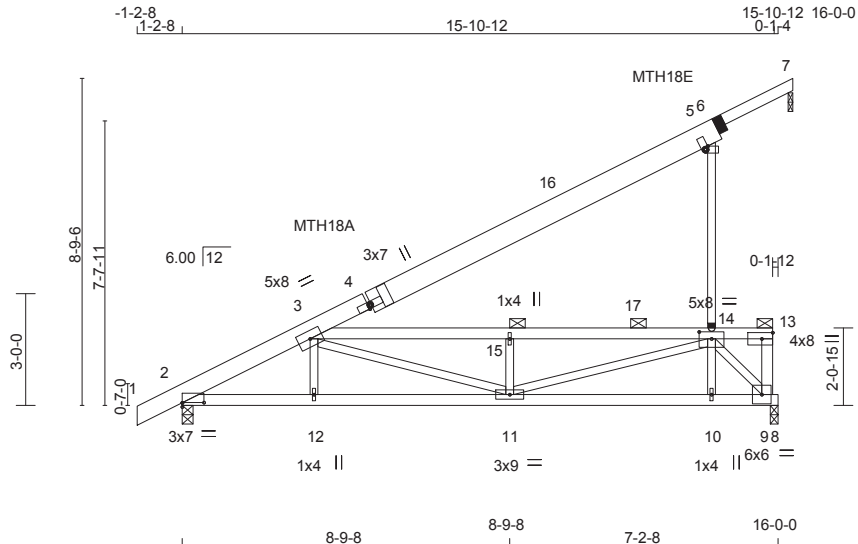
Check One:  New Model  Revised Model\*

TECHNICAL DATA			
	Conforms		
	Yes	No	N/A
Floor Plan Showing:			
Braced Wall Method or Shearwalls	✓		
Building Size (L X W Dimensions)	✓		
Room Sizes, Light & Ventilation Schedule	✓		
Exit Requirements	✓		
Electrical Outlet Spacing & Smoke Detector	✓		
Location of Labels & Data Plates	✓		
Use Group, Type Const., Total Sq.Ft., Area	✓		
Plumbing System Design or Reference No. ( See attached )	✓		
Heat Loss Calculations or Reference No. ( See attached )	✓		
HVAC/Furnace Size/Model No. ( On site by others )			✓
Thermal Performance Calculations or Reference No. ( See attached )	✓		
Electrical Load Calculations or Reference No. ( Typical )			✓
Service Size and Location ( 200 amp/basement )	✓		
Applicable Building Codes See Cover Sheet	✓		
Submit model to the following states: <u>Maine</u>			
* Description of Modification _____			
Requested by: <u>Rae King</u> Date: <u>Jan 1/2017</u>			
(designer)			
<b>For PFS Use</b>			
Staff Plan Reviewer _____ IBC Certification# _____ Date: _____			
Structural Calculation(s) Reviewed by: _____ P.E.#: _____ Date: _____			
Remarks _____			
** (1) copy sent to IBC within 15 days of approval.			
VERBAL APPROVAL GIVEN <input type="checkbox"/> By Whom: _____ To Whom _____ Date _____			
MODEL WAS DEVIATED <input type="checkbox"/> Revision Number _____			

THIS FORM SHALL BE FILLED OUT COMPLETELY WITH EACH MODEL ACCEPTANCE OR MODIFICATION PRIOR TO SUBMITTAL TO PFS.

Job 12827A2	Truss 61216	Truss Type HINGED MONO	Qty 1	Ply 1	U1277446
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MMH Prestige Homes, Sussex NB 8.010 s May 28 2016 MiTek Industries, Inc. Fri Jan 20 10:40:37 2017 Page 1  
 ID:TWfZ\_MBom37FDEWEhP8zuZtXdY-je0jDqq6SmGrO2WFk0B7gXMXQkD5HrKoiqidS8ztVQ8



Scale = 1:61.9

Plate Offsets (X,Y)-- [2:0-1-3,0-0-9], [2:0-7-0,0-0-1], [4:0-0-11,0-1-2], [5:0-0-11,0-1-2], [13:0-3-8,0-2-0], [14:0-4-0,0-2-4]

<b>LOADING</b> (psf) TCLL 34.7 (Ground Snow=50.0) TCDL 10.0 BCLL 0.0 * BCDL 10.0	<b>SPACING-</b> 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IBC2009/TPI2007	<b>CSI.</b> TC 0.76 BC 0.52 WB 0.66 Matrix-R	<b>DEFL.</b> in (loc) l/defl L/d Vert(LL) -0.07 11-12 >999 240 Vert(TL) -0.14 11-12 >999 180 Horz(TL) 0.04 9 n/a n/a	<b>PLATES</b> MT20 MT18HS Weight: 92 lb	<b>GRIP</b> 197/144 197/144 FT = 0%
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<b>LUMBER-</b> TOP CHORD 2x6 SPF No.2 *Except* 4-6: 2x8 SPF No.2, 6-7: 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x3 SPF No.2 *Except* 9-13: 2x4 SPF No.2 OTHERS 2x4 SPF No.2	<b>BRACING-</b> TOP CHORD Structural wood sheathing directly applied or 4-3-8 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 9-0-13 oc bracing. WEBS 1 Row at midpt 13-15 JOINTS 1 Brace at Jt(s): 13, 15
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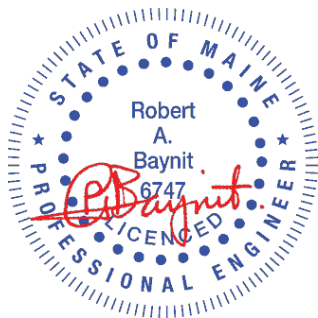
**REACTIONS.** (size) 2=0-3-8, 9=0-2-8, 7=0-1-8  
 Max Horz 2=379(LC 7)  
 Max Uplift 2=181(LC 10), 9=-206(LC 10), 7=-47(LC 10)  
 Max Grav 2=1025(LC 17), 9=1014(LC 17), 7=128(LC 17)

**FORCES.** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=0/64, 2-3=-1768/239, 3-5=-292/180, 5-7=-73/51, 5-14=-719/235, 9-13=-1/4  
 BOT CHORD 2-12=-415/1556, 11-12=-418/1554, 10-11=-127/759, 9-10=-127/759, 8-9=0/0  
 WEBS 3-15=-1455/325, 14-15=-1455/325, 13-14=-24/23, 3-12=0/177, 10-14=0/184, 9-14=-1245/244, 11-15=-104/24, 3-11=-139/274, 11-14=-103/749

**REQUIRED FIELD JOINT CONNECTIONS** - Maximum Compression (lb)/ Maximum Tension (lb)/ Maximum Shear (lb)/ Maximum Moment (lb-in)  
 6=65/0/115/0, 14=719/235/83/0

- NOTES-**
- 1) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
  - 2) TCLL: ASCE 7-05; Pg= 50.0 psf (ground snow); Pf=34.7 psf (flat roof snow); Category II; Exp B; Fully Exp.; Ct=1.1
  - 3) Unbalanced snow loads have been considered for this design.
  - 4) This truss has been designed for greater of min roof live load of 18.0 psf or 2.00 times flat roof load of 34.6 psf on overhangs non-concurrent with other live loads.
  - 5) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
  - 6) All plates are MT20 plates unless otherwise indicated.
  - 7) See HINGE PLATE DETAILS for plate placement.
  - 8) Provisions must be made to prevent lateral movement of hinged member(s) during transportation.
  - 9) All additional member connections shall be provided by others for forces as indicated.
  - 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 11) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 12) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9, 7.
  - 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 181 lb uplift at joint 2, 206 lb uplift at joint 9 and 47 lb uplift at joint 7.
  - 14) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 7.
  - 15) This truss is designed in accordance with the 2009 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
  - 16) Load case(s) 2, 3, 4, 5, 19, 20, 21, 22, 23 has/have been modified. Building designer must review loads to verify that are correct for the intended use of this truss.
  - 17) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B)

**PFS Corporation**  
**Northeast Region**  
**APPROVED**  
**H Raup - 3**  
**3/3/17**  
**Approval limited to**  
**Factory Built Portion**



January 20, 2017

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
12827A2	61216	HINGED MONO	1	1	U1277446

MMH Prestige Homes, Sussex NB

8.010 s May 28 2016 MiTek Industries, Inc. Fri Jan 20 10:40:37 2017 Page 2

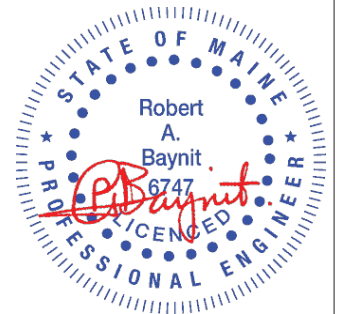
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**LOAD CASE(S)** Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-5=-89, 5-7=-89, 2-8=-20
- 2) Dead + 0.75 Snow (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-5=-72, 5-7=-72, 2-8=-20, 13-17=-30(F)
- 3) Dead + 0.75 Snow (Unbal. Left) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-16=-72, 5-16=-107, 5-7=-107, 2-8=-20, 13-17=-30(F)
- 4) Dead + 0.75 Snow (Unbal. Right) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-5=-36, 5-7=-36, 2-8=-20, 13-17=-30(F)
- 5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-5=-20, 5-7=-20, 2-8=-40, 13-17=-40(F)
- 19) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-5=-20, 5-7=-20, 2-8=-20, 13-17=-40(F)
- 20) Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33  
Uniform Loads (plf)  
Vert: 1-2=-67, 2-5=-72, 5-7=-72, 2-8=-20, 13-17=-30(F)  
Horz: 1-2=-5, 2-5=-0, 5-7=-0, 5-14=8, 9-13=8  
Drag: 5-14=0
- 21) Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33  
Uniform Loads (plf)  
Vert: 1-2=-56, 2-5=-61, 5-7=-61, 2-8=-20, 13-17=-30(F)  
Horz: 1-2=-16, 2-5=-11, 5-7=-11, 5-14=-24, 9-13=-24  
Drag: 5-14=0
- 22) Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33  
Uniform Loads (plf)  
Vert: 1-2=-42, 2-5=-47, 5-7=-47, 2-8=-20, 13-17=-30(F)  
Horz: 1-2=-30, 2-5=-25, 5-7=-25, 5-14=7, 9-13=7  
Drag: 5-14=0
- 23) Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33  
Uniform Loads (plf)  
Vert: 1-2=-53, 2-5=-58, 5-7=-58, 2-8=-20, 13-17=-30(F)  
Horz: 1-2=-19, 2-5=-14, 5-7=-14, 5-14=7, 9-13=7  
Drag: 5-14=0



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**3/3/17**  
**Approval limited to**  
**Factory Built Portion**



January 20, 2017

**WARNING** - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.  
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job 12827A2	Truss 612113	Truss Type HINGED MONO	Qty 1	Ply 1	Job Reference (optional)	U1277447
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MMH Prestige Homes, Sussex NB

8.010 s May 28 2016 MiTek Industries, Inc. Fri Jan 20 08:53:58 2017 Page 1

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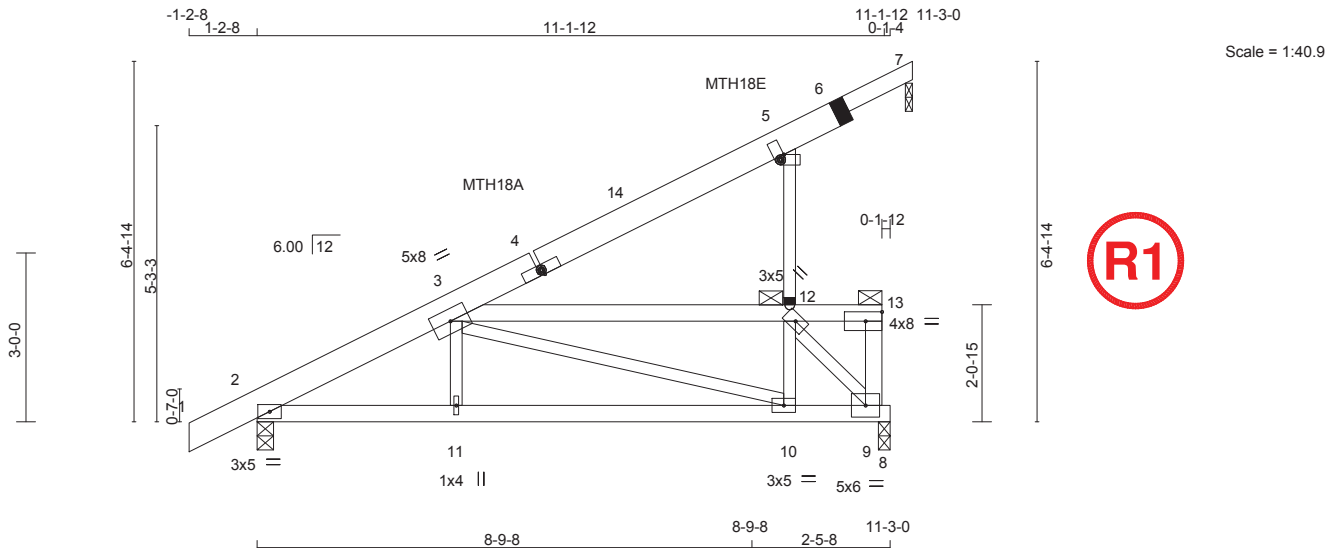


Plate Offsets (X,Y)-- [4:0-0-5,0-1-2], [5:0-0-11,0-1-2], [13:0-3-8,0-2-0]

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 34.7 (Ground Snow=50.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IBC2009/TPI2007	TC 0.30 BC 0.32 WB 0.39 Matrix-R	in (loc) l/defl L/d Vert(LL) -0.03 10-11 >999 240 Vert(TL) -0.08 10-11 >999 180 Horz(TL) 0.02 9 n/a n/a	MT20 197/144 MT18HS 197/144	Weight: 60 lb FT = 0%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x6 SPF No.2 *Except* 6-7: 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2 *Except* 9-13: 2x4 SPF No.2	JOINTS 1 Brace at Jt(s): 12, 13
OTHERS 2x4 SPF No.2	

**REACTIONS.** (size) 2=0-3-8, 9=0-2-8, 7=0-1-8  
 Max Horz 2=269(LC 6)  
 Max Uplift 2=-144(LC 7), 9=-155(LC 7), 7=-30(LC 7)  
 Max Grav 2=753(LC 2), 9=719(LC 2), 7=76(LC 2)

**FORCES.** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=0/64, 2-3=-1096/102, 3-5=-146/134, 5-7=-86/25, 5-12=-493/165, 9-13=-6/4  
 BOT CHORD 2-11=-220/924, 10-11=-223/920, 9-10=-87/544, 8-9=0/0  
 WEBS 3-12=-544/163, 12-13=-11/23, 3-11=0/204, 9-12=-896/177, 10-12=0/286, 3-10=-420/143

**REQUIRED FIELD JOINT CONNECTIONS** - Maximum Compression (lb)/ Maximum Tension (lb)/ Maximum Shear (lb)/ Maximum Moment (lb-in)  
 6=38/0/68/0, 12=493/165/36/0

- NOTES-**
- 1) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
  - 2) TCLL: ASCE 7-05; Pg= 50.0 psf (ground snow); Pf=34.7 psf (flat roof snow); Category II; Exp B; Fully Exp.; Ct=1.1
  - 3) Unbalanced snow loads have been considered for this design.
  - 4) This truss has been designed for greater of min roof live load of 18.0 psf or 2.00 times flat roof load of 34.6 psf on overhangs non-concurrent with other live loads.
  - 5) All plates are MT20 plates unless otherwise indicated.
  - 6) See HINGE PLATE DETAILS for plate placement.
  - 7) Provisions must be made to prevent lateral movement of hinged member(s) during transportation.
  - 8) All additional member connections shall be provided by others for forces as indicated.
  - 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 10) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 11) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9, 7.
  - 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 144 lb uplift at joint 2, 155 lb uplift at joint 9 and 30 lb uplift at joint 7.
  - 13) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 7.
  - 14) This truss is designed in accordance with the 2009 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

PFS Corporation  
 Northeast Region  
 APPROVED  
 H Raup - 3  
 3/3/17  
 Approval limited to  
 Factory Built Portion



January 20, 2017

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.**  
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.





**COMPANY**  
Prestige Homes  
Sussex, NB  
June 9, 2016 11:42

**PROJECT**  
Exterior 2-2x6 Maximum Span  
Uniform Roof Loads Only  
14' Module  
US IBC 2012 NDS 2012  
Ext Double 2x6 14 US (Updated June 9, 2016).wwb

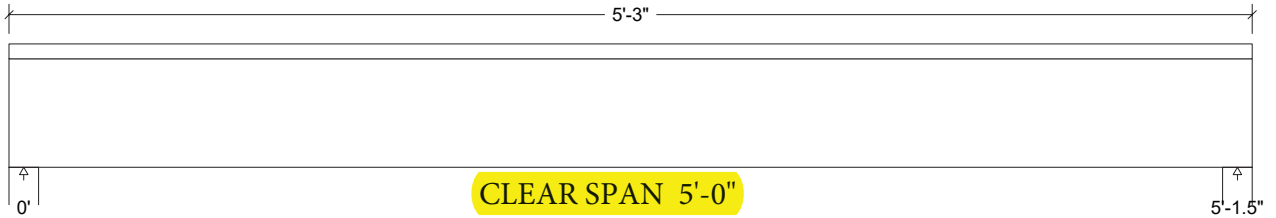
**Design Check Calculation Sheet**  
WoodWorks Sizer 10.4

**Loads:**

Load	Type	Distribution	Pat-tern	Location [ft]		Magnitude		Unit
				Start	End	Start	End	
DL1	Dead	Full UDL				165.0		plf
SL1	Snow	Full UDL				332.0		plf
Self-weight	Dead	Full UDL				3.3		plf

Load magnitude does not include Normal Importance factor from Table 4.2.3.2, which is applied during analysis.

**Maximum Reactions (lbs), Bearing Capacities (lbs) and Bearing Lengths (in) :**



Unfactored:			
Dead	431		431
Snow	851		851
Factored:			
Total	1282		1282
<b>Bearing:</b>			
Capacity			
Beam	1912		1912
Support	3939		3939
Anal/Des			
Beam	0.67		0.67
Support	0.33		0.33
Load comb	#2		#2
Length	1.50*		1.50*
Min req'd	1.50*		1.50*
Cb	1.00		1.00
Cb min	1.00		1.00
Cb support	1.00		1.00
Fc sup	725		725

\*Minimum bearing length setting used: 1-1/2" for end supports

**Exterior Double 2"x6" Header Maximum Span  
Lumber n-ply, S-P-F, No.1/No.2, 2x6, 2-ply (3"x5-1/2")**

Supports: All - Lumber n-ply Column, S-P-F Stud  
Total length: 5'-3.0"; volume = 0.6 cu.ft.;  
Lateral support: top= full, bottom= at supports;

**Analysis vs. Allowable Stress and Deflection using NDS 2012 :**

Criterion	Analysis Value	Design Value	Unit	Analysis/Design
Shear	fv = 93	Fv' = 155	psi	fv/Fv' = 0.60
Bending(+)	fb = 1303	Fb' = 1308	psi	fb/Fb' = 1.00
Live Defl'n	0.09 = L/694	0.17 = L/360	in	0.52
Total Defl'n	0.13 = L/461	0.26 = L/240	in	0.52

**Additional Data:**

FACTORS:	F/E(psi)	CD	CM	Ct	CL	CF	Cfu	Cr	Cf <sub>rt</sub>	Ci	Cn	LC#
Fv'	135	1.15	1.00	1.00	-	-	-	-	1.00	1.00	1.00	2
Fb'+	875	1.15	1.00	1.00	1.000	1.300	1.00	1.00	1.00	1.00	-	2
F <sub>cp</sub> '	425	-	1.00	1.00	-	-	-	-	1.00	1.00	-	-
E'	1.4 million	1.00	1.00	1.00	-	-	-	-	1.00	1.00	-	2

**CRITICAL LOAD COMBINATIONS:**

Shear : LC #2 = D+S, V = 1282, V design = 1022 lbs  
Bending(+): LC #2 = D+S, M = 1643 lbs-ft  
Deflection: LC #2 = D+S (live)  
LC #2 = D+S (total)

D=dead L=live S=snow W=wind I=impact Lr=roof live Lc=concentrated E=earthquake  
All LC's are listed in the Analysis output

Load combinations: ICC-IBC

**CALCULATIONS:**

Deflection: EI = 29.1e06 lb-in<sup>2</sup>/ply  
"Live" deflection = Deflection from all non-dead loads (live, wind, snow...)  
Total Deflection = 1.00(Dead Load Deflection) + Live Load Deflection.



**Design Notes:**

- WoodWorks analysis and design are in accordance with the ICC International Building Code (IBC 2012), the National Design Specification (NDS 2012), and NDS Design Supplement.
- Please verify that the default deflection limits are appropriate for your application.
- Sawn lumber bending members shall be laterally supported according to the provisions of NDS Clause 4.4.1.
- BUILT-UP BEAMS:** it is assumed that each ply is a single continuous member (that is, no butt joints are present) fastened together securely at intervals not exceeding 4 times the depth and that each ply is equally top-loaded. Where beams are side-loaded, special fastening details may be required.
- Ground Snow Load: Ps = 50psf
- Flat Snow Load: Pf = 35psf (Fully Exposed)
- Unbalanced Snow Load: P<sub>unbal</sub> = 58psf
- Uniform Loading only
- No concentrated Loads Considered
- To be applied to Single Storey Homes or the Top Floor of Multi-Storey Homes
- For Bearing Refer to Jack Stud Calc Sheet "1-2x6 US"



**COMPANY**  
Prestige Homes  
Sussex, NB  
July 18, 2016 16:48

**PROJECT**  
Exterior 1-1 3/4"x 9 1/4" LVL  
Uniform Roof and Floor Loads Only  
16' Module  
US IBC 2012 NDS 2012  
Ext Single 9 25 LVL RF 16 US (Updated July 18, 2016).wwb

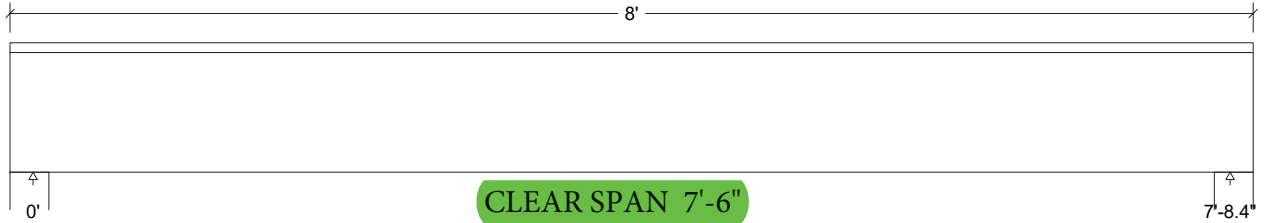
**Design Check Calculation Sheet**  
WoodWorks Sizer 10.4

**Loads:**

Load	Type	Distribution	Pat-tern	Location [ft]		Magnitude		Unit
				Start	End	Start	End	
DL1	Dead	Full UDL				185.0		plf
SL1	Snow	Full UDL				375.0		plf
3	Dead	Full Area				15.00(8.00')		psf
4	Live	Full Area				40.00(8.00')		psf
Self-weight	Dead	Full UDL				4.7		plf

Load magnitude does not include Normal Importance factor from Table 4.2.3.2, which is applied during analysis.

**Maximum Reactions (lbs), Bearing Capacities (lbs) and Bearing Lengths (in) :**



Unfactored:			
Dead	1193		1193
Live	1233		1233
Snow	1444		1444
Factored:			
Total	3200		3200
<b>Bearing:</b>			
Capacity			
Beam	3938		3938
Support	4596		4596
Anal/Des			
Beam	0.81		0.81
Support	0.70		0.70
Load comb	#3		#3
Length	3.00		3.00
Min req'd	2.44		2.44
Cb	1.00		1.00
Cb min	1.00		1.00
Cb support	1.00		1.00
Fc sup	725		725

**Exterior Single 9 1/4" LVL 1.9E Header Maximum Span**

LVL n-ply, 1.9E, 2600Fb, 1-3/4"x9-1/4", 1-ply

Supports: All - Lumber n-ply Column, S-P-F Stud

Total length: 8'; volume = 0.9 cu.ft.;

Lateral support: top= full, bottom= at supports;

**Analysis vs. Allowable Stress and Deflection using NDS 2012 :**

Criterion	Analysis Value	Design Value	Unit	Analysis/Design
Shear	fv = 229	Fv' = 328	psi	fv/Fv' = 0.70
Bending(+)	fb = 2964	Fb' = 2990	psi	fb/Fb' = 0.99
Live Defl'n	0.19 = L/490	0.26 = L/360	in	0.73
Total Defl'n	0.30 = L/307	0.39 = L/240	in	0.78

**Additional Data:**

FACTORS:	F/E(psi)CD	CM	Ct	CL	CV	Cfu	Cr	Cfrr	Ci	Cn	LC#
Fv'	285	1.15	-	1.00	-	-	-	1.00	-	1.00	3
Fb'+	2600	1.15	-	1.00	1.000	1.00	1.00	1.00	-	-	3
Fcp'	750	-	-	1.00	-	-	-	1.00	-	-	-
E'	1.9 million	-	-	1.00	-	-	-	1.00	-	-	3
Eminy'	0.98 million	-	-	1.00	-	-	-	1.00	-	-	3

**CRITICAL LOAD COMBINATIONS:**

Shear : LC #3 = D+.75(L+S), V = 3200, V design = 2475 lbs

Bending(+): LC #3 = D+.75(L+S), M = 6163 lbs-ft

Deflection: LC #3 = D+.75(L+S) (live)

LC #3 = D+.75(L+S) (total)

D=dead L=live S=snow W=wind I=impact Lr=roof live Lc=concentrated E=earthquake

All LC's are listed in the Analysis output

Load combinations: ICC-IBC

**CALCULATIONS:**

Deflection: EI = 219e06 lb-in<sup>2</sup>

"Live" deflection = Deflection from all non-dead loads (live, wind, snow...)

Total Deflection = 1.00(Dead Load Deflection) + Live Load Deflection.



**Design Notes:**

- WoodWorks analysis and design are in accordance with the ICC International Building Code (IBC 2012), the National Design Specification (NDS 2012), and NDS Design Supplement.
- Please verify that the default deflection limits are appropriate for your application.
- SCL-BEAMS (Structural Composite Lumber): the attached SCL selection is for preliminary design only. For final member design contact your local SCL manufacturer.
- Size factors vary from one manufacturer to another for SCL materials. They can be changed in the database editor.
- BUILT-UP SCL-BEAMS: contact manufacturer for connection details when loads are not applied equally to all plies.
- Ground Snow Load: Ps = 50psf
- Flat Snow Load: Pf = 35psf (Fully Exposed)
- Unbalanced Snow Load: Punbal = 58psf
- Uniform Loading only
- No concentrated Loads Considered
- To be applied to the First Floor of Two Storey Residential Homes
- Bearing to be Determined by Beam Bearing Capacity



**WoodWorks**  
SOFTWARE FOR WOOD DESIGN

**COMPANY**  
Prestige Homes  
Sussex, NB  
May 23, 2016 23:45

**PROJECT**  
Exterior 2-2x6  
Uniform Roof and Floor Loads Only  
14' Module  
US IBC 2012 NDS 2012  
Ext Double 2x6 14 RF US (Updated May 23, 2016).wwb

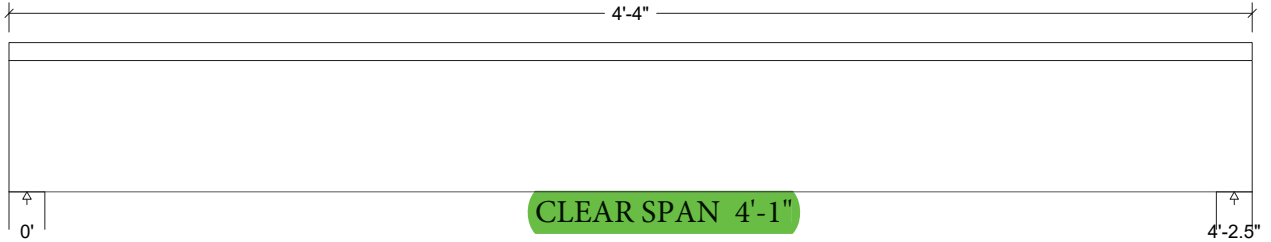
**Design Check Calculation Sheet**  
WoodWorks Sizer 10.4

**Loads:**

Load	Type	Distribution	Pat-tern	Location [ft]		Magnitude		Unit
				Start	End	Start	End	
DL1	Dead	Full UDL				165.0		plf
SL1	Snow	Full UDL				332.0		plf
3	Dead	Full Area				15.00(7.00')		psf
4	Live	Full Area				40.00(7.00')		psf
Self-weight	Dead	Full UDL				3.3		plf

Load magnitude does not include Normal Importance factor from Table 4.2.3.2, which is applied during analysis.

**Maximum Reactions (lbs), Bearing Capacities (lbs) and Bearing Lengths (in) :**



Unfactored:			
Dead	575		575
Live	589		589
Snow	699		699
Factored:			
Total	1541		1541
<b>Bearing:</b>			
Capacity			
Beam	1912		1912
Support	6844		6844
Anal/Des			
Beam	0.81		0.81
Support	0.23		0.23
Load comb	#3		#3
Length	1.50*		1.50*
Min req'd	1.50*		1.50*
Cb	1.00		1.00
Cb min	1.00		1.00
Cb support	1.00		1.00
Fc sup	1150		1150

\*Minimum bearing length setting used: 1-1/2" for end supports

**Exterior Double 2"x6" Header Maximum Span**  
Lumber n-ply, S-P-F, No.1/No.2, 2x6, 2-ply (3"x5-1/2")  
Supports: All - Lumber n-ply Column, S-P-F No.1/No.2  
Total length: 4'-4.0"; volume = 0.5 cu.ft.;  
Lateral support: top= full, bottom= at supports;

**Analysis vs. Allowable Stress and Deflection using NDS 2012 :**

Criterion	Analysis Value	Design Value	Unit	Analysis/Design
Shear	fv = 105	Fv' = 155	psi	fv/Fv' = 0.68
Bending(+)	fb = 1286	Fb' = 1308	psi	fb/Fb' = 0.98
Live Defl'n	0.06 = L/907	0.14 = L/360	in	0.40
Total Defl'n	0.09 = L/568	0.21 = L/240	in	0.42

**Additional Data:**

FACTORS:	F/E(psi)	CD	CM	Ct	CL	CF	Cfu	Cr	Cfrr	Ci	Cn	LC#
Fv'	135	1.15	1.00	1.00	-	-	-	-	1.00	1.00	1.00	3
Fb'+	875	1.15	1.00	1.00	1.000	1.300	1.00	1.00	1.00	1.00	-	3
Fcp'	425	-	1.00	1.00	-	-	-	-	1.00	1.00	-	-
E'	1.4 million	1.00	1.00	-	-	-	-	-	1.00	1.00	-	3

**CRITICAL LOAD COMBINATIONS:**

Shear : LC #3 = D+.75(L+S), V = 1541, V design = 1160 lbs  
Bending(+): LC #3 = D+.75(L+S), M = 1621 lbs-ft  
Deflection: LC #3 = D+.75(L+S) (live)  
LC #3 = D+.75(L+S) (total)  
D=dead L=live S=snow W=wind I=impact Lr=roof live Lc=concentrated E=earthquake  
All LC's are listed in the Analysis output  
Load combinations: ICC-IBC

**CALCULATIONS:**

Deflection: EI = 29.1e06 lb-in<sup>2</sup>/ply  
"Live" deflection = Deflection from all non-dead loads (live, wind, snow...)  
Total Deflection = 1.00(Dead Load Deflection) + Live Load Deflection.



**Design Notes:**

- WoodWorks analysis and design are in accordance with the ICC International Building Code (IBC 2012), the National Design Specification (NDS 2012), and NDS Design Supplement.
- Please verify that the default deflection limits are appropriate for your application.
- Sawn lumber bending members shall be laterally supported according to the provisions of NDS Clause 4.4.1.
- BUILT-UP BEAMS: it is assumed that each ply is a single continuous member (that is, no butt joints are present) fastened together securely at intervals not exceeding 4 times the depth and that each ply is equally top-loaded. Where beams are side-loaded, special fastening details may be required.
- Ground Snow Load: Ps = 50psf
- Flat Snow Load: Pf = 35psf (Fully Exposed)
- Unbalanced Snow Load: Punbal = 58psf
- Uniform Roof and Single Floor Loading only
- No concentrated Loads Considered
- To be applied to First Floor of Two Storey Residential Structures
- For Bearing Refer to Jack Stud Calc Sheet "1-2x6 US"

### Application

Designed for installation on water lines to protect against both backsiphonage and backpressure of polluted water into the potable water supply. Assembly shall provide protection where a potential health hazard does not exist.

### Standards Compliance

(All sizes approved horizontal. Vertical approvals as listed below.)

- ASSE® Listed 1015 ( vertical 3/4", 1 1/4", 1 1/2" & 2")
- IAPMO® Listed (vertical 1 1/4"-2")
- CSA® Listed ( vertical 3/4", 1 1/4", 1 1/2" & 2")
- AWWA Compliant C510 (vertical 3/4")
- UL® Classified (less shut-off valves only)
- C-UL® Classified (less shut-off valves only)
- Approved by the Foundation for Cross Connection Control and Hydraulic Research at the University of Southern California (vertical 3/4")
- City of Los Angeles Approved (vertical 1-1/4"-2")
- NYC MEA 426-89-M VOL 3

### Materials

Main valve body	Cast Bronze ASTM B 584
Access covers	Cast Bronze ASTM B 584
Internals	Stainless Steel, 300 Series
Elastomers	Silicone (FDA approved) Buna Nitrile (FDA approved)
Polymers	Noryl™, NSF Listed
Springs	Stainless steel, 300 series

### Features

Sizes: 3/4", 1", 1 1/4", 1 1/2", 2"

Maximum working water pressure	175 PSI
Maximum working water temperature	180°F
Hydrostatic test pressure	350 PSI
End connections Threaded	ANSI B1.20.1



### Options

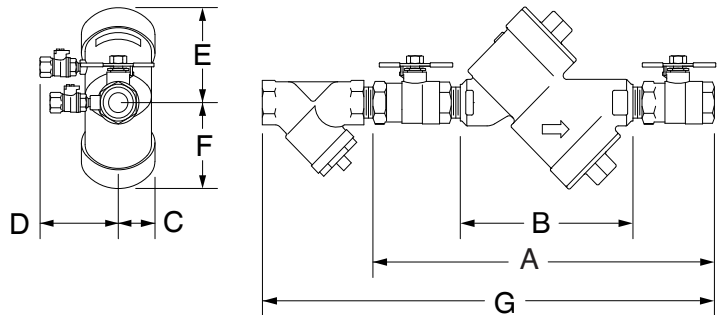
(Suffixes can be combined)

- with full port QT ball valves (standard)
- L - less ball valves
- U - with union ball valves
- S - with bronze "Y" type strainer
- TCU - with test cocks "vertical" up
- V - with union swivel elbows (3/4" & 1")
- OSY - with OS & Y gate valves
- FDC - with fire hydrant connection (2" only)
- FT - with integral male 45° flare SAE test fitting
- PF - with Z-Bite™ push fit connections\* (1/2"-1" only)
- PR - with Z-Press™ press fit connections\*

\*Fittings ship in box with valve and must be threaded into valve by hand on site.

### Accessories

- Repair kit (rubber only)
- Thermal expansion tank (Model XT)
- QT-SET Quick Test Fitting Set



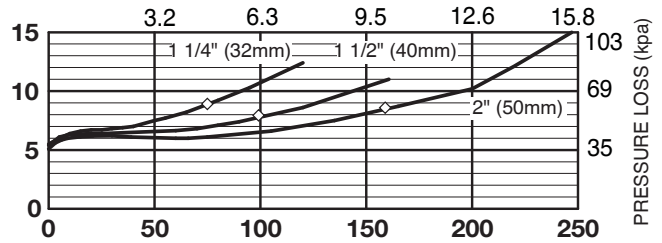
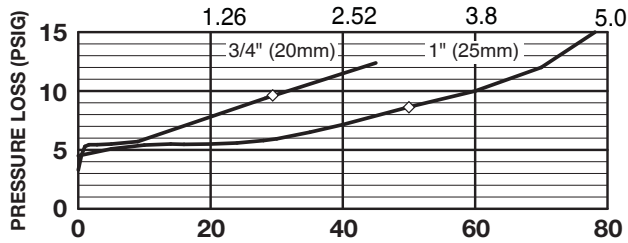
### Dimensions & Weights (do not include pkg.)

MODEL SIZE	DIMENSIONS (approximate)																WEIGHT				
	A		A UNION BALL VALVES		B LESS BALL VALVES		C		D		E		F		G		LESS BALL VALVES		WITH BALL VALVES		
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs	kg	lbs.	kg	
3/4	20	11 1/4	286	12 1/2	318	7	178	1 1/2	38	3	76	3 1/2	89	3	76	15	381	5	2.3	7	3.2
1	25	12 1/4	311	13 7/8	353	7	178	1 1/2	38	3	76	3 1/2	89	3	76	17 3/4	451	8	3.6	12	5.4
1 1/4	32	15 1/2	419	18 1/2	470	10 9/16	268	2	51	3 1/2	89	4 1/2	114	4 1/2	114	21 1/2	546	16	7.3	22	10
1 1/2	40	17 1/8	435	19 1/8	486	10 9/16	268	2	51	3 1/2	89	4 1/2	114	4 1/2	114	22 3/4	578	16	7.3	22	10
2	50	18 1/4	460	20	508	10 9/16	268	2	51	3 1/2	89	4 1/2	114	4 1/2	114	25 1/8	638	16	7.3	28	12.7



**MODEL 950XL 3/4", 1", 1 1/4", 1 1/2" & 2" (STANDARD & METRIC)**

FLOW RATES (l/s)

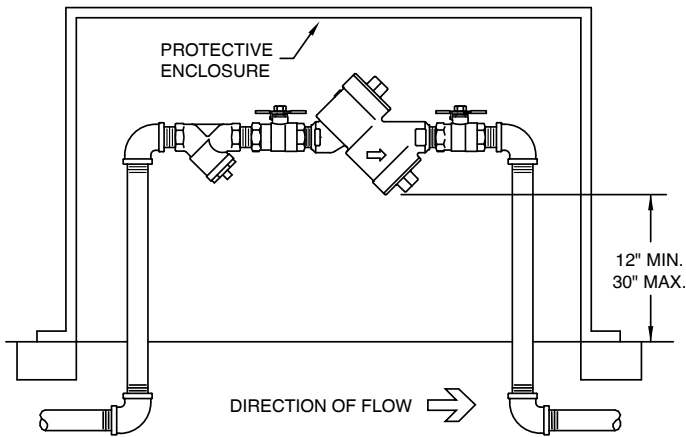


FLOW RATES (GPM)

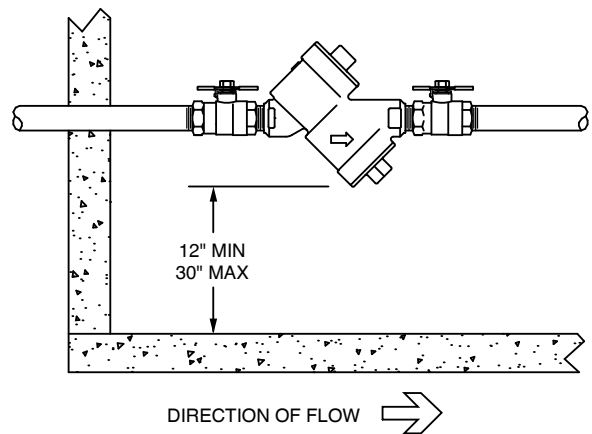
**Typical Installation**

Local codes shall govern installation requirements. To be installed in accordance with the manufacturer's instructions and the latest edition of the Uniform Plumbing Code. Unless otherwise specified, the assembly shall be mounted at a minimum of 12" (305mm) and a maximum of 30" (762mm) above adequate drains with sufficient side clearance for testing and maintenance. The installation shall be made so that no part of the unit can be submerged.

Capacity thru Schedule 40 Pipe				
Pipe size	5 ft/sec	7.5 ft/sec	10 ft/sec	15 ft/sec
1/8"	1	1	2	3
1/4"	2	2	3	5
3/8"	3	4	6	9
1/2"	5	7	9	14
3/4"	8	12	17	25
1"	13	20	27	40
1 1/4"	23	35	47	70
1 1/2"	32	48	63	95
2"	52	78	105	167



**OUTDOOR INSTALLATION**



**INDOOR INSTALLATION**

**Specifications**

The Double Check Valve Backflow Preventer shall be ASSE® Listed 1015 approved, and supplied with full port ball valves. The main body and access covers shall be bronze (ASTM B 584), the seat rings and all internal polymers shall be NSF® Listed Noryl™ and the seat disc elastomers shall be silicone. The first and second checks shall be accessible for maintenance without removing the device from the line. The Double Check Valve Backflow Preventer shall be a ZURN WILKINS Model 950XL.



## HYDRAULIC CALCULATIONS



THIS DRWG. HAS BEEN REVIEWED BY A  
NICET CERTIFIED AUTOMATIC SPRINKLER  
LAYOUT TECHNICIAN

JEAN-MARC LEBLANC

SIGNATURE

NICET NO. 103123



LEVEL IV

FEB 9 / 2017

DATE

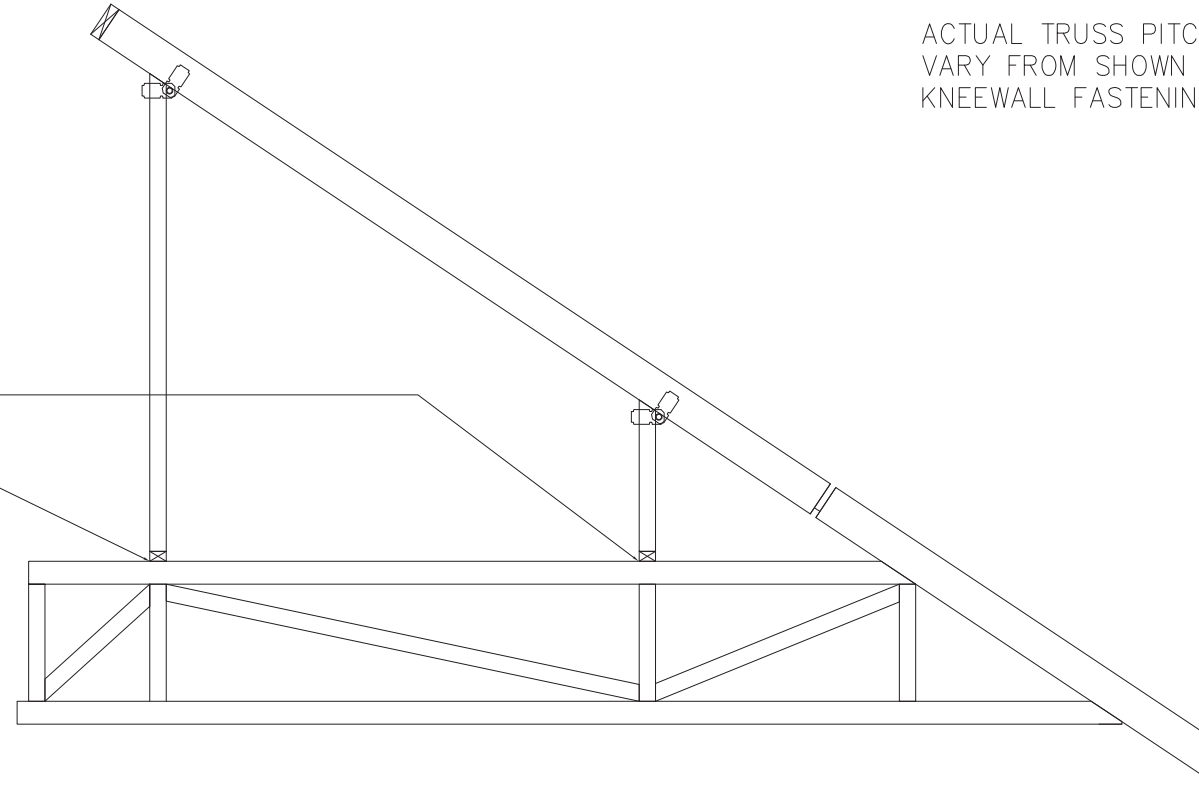
RMS NO. 572

Vipond Fire Protection  
309 English Drive  
Moncton, N.B.  
E1E 3Y8  
(506)857-8505

Project Name : DERASPE RESIDENCE BDRM2 SECOND FLR  
Address : 69 FALL BROOK STREET, PORTLAND, MAINE, USA  
Calculation Area Location : E-2318  
System : 110726.WXB  
Contract : 110726  
Calculation Data File Name : 110726.WXB

**KNEEWALL PLATE TO TRUSS**

Fasten kneewall plate to top chord of boxed truss with 3 - 3 1/2" 16d-8ga. ardox nails @ 24" o.c. (at each truss) toenailed.



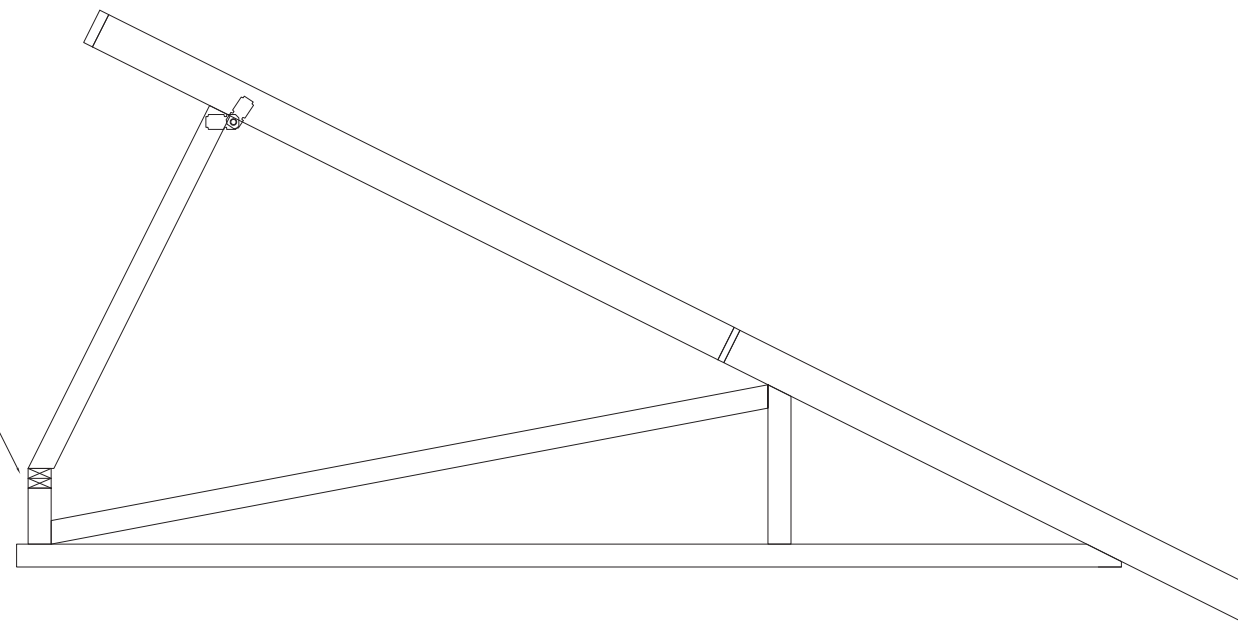
**NOTE:**

ACTUAL TRUSS PITCH AND DESIGN MAY VARY FROM SHOWN DESIGN. DETAIL IS FOR KNEEWALL FASTENING ONLY.

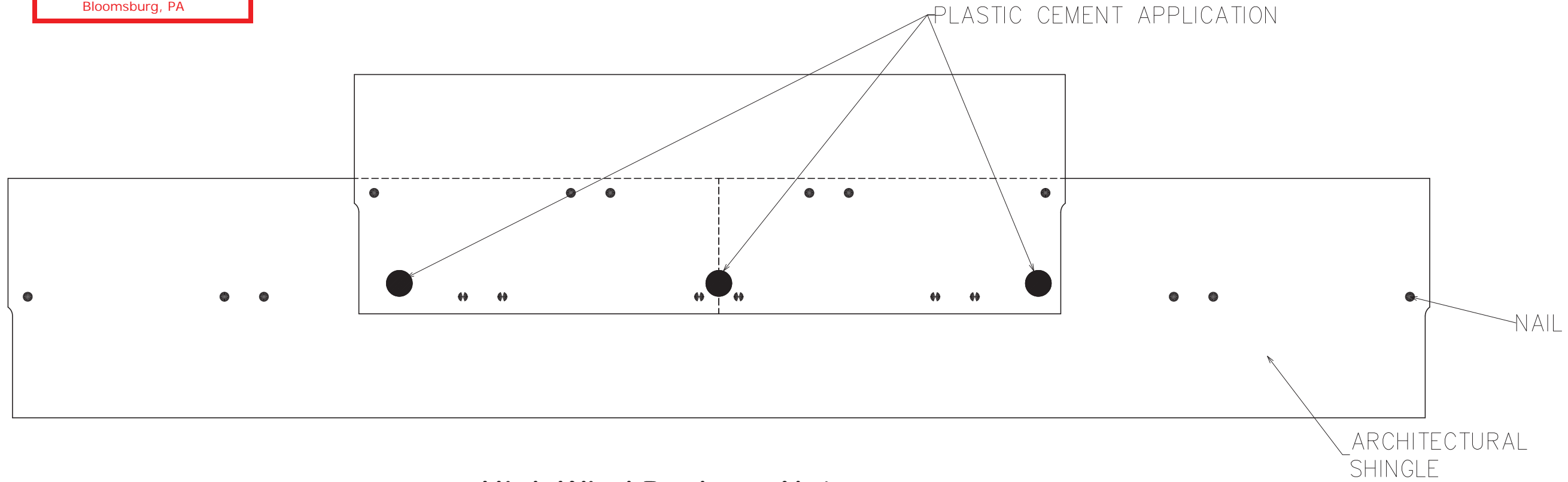


**KNEEWALL PLATE TO TRUSS PIN PLATE**

Fasten kneewall plates to top plate of truss pin with 2 - 3 1/2" 16d-8ga. ardox nails @ 16" o.c.



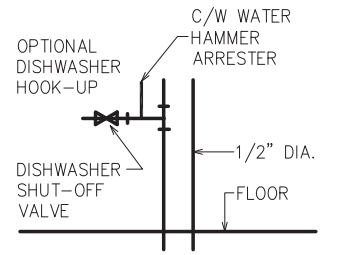
Sheet No.	—	Drawn By	R.KING	Original Date	JUNE 3/2016	Scale	3/16" = 1'-0"
<b>prestige HOMES</b> <i>We're built differently.</i>							
Prestige Homes Inc. 14 Industrial Drive Sussex, New Brunswick E4E-2R8 Phone: (506)433-9130 Fax: (506)433-9141							
<b>Kneewall Fastening Pattern</b>							
Revision	Date	Revised by					
—	—	—					



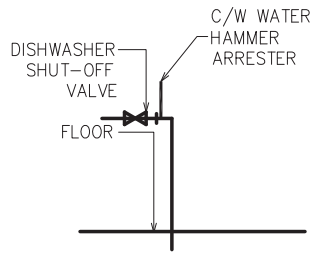
**High Wind Package Notes:**

6 NAILS PER SHINGLE & 3-1" SPOTS OF ASPHALT PLASTIC CEMENT UNDER EACH SHINGLE

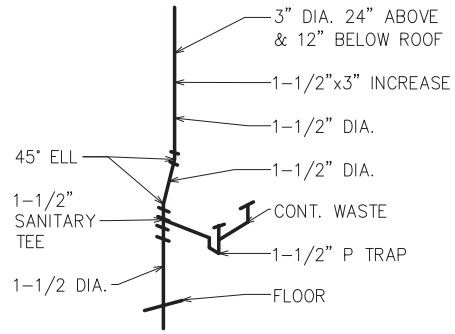
Sheet No.	—	Revision Date	—
Drawn By	ALK	Shingle Fastening Detail	MAINE HIGH WIND
Original Date	July 7/15		
Scale	NOT TO SCALE		
		Prestige Homes Inc. 14 Industrial Drive Sussex, New Brunswick E4E-2R8 Phone: (506)433-9130 Fax: (506)433-9141	



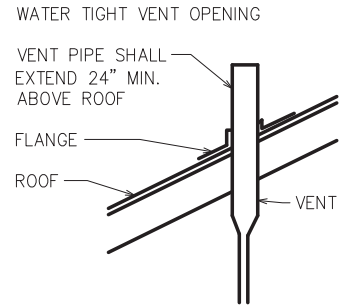
**KITCHEN SINK & LAVATORY SUPPLY**



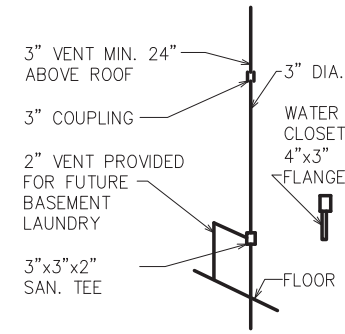
**DISHWASHER HOOK-UP IF SEPARATE**



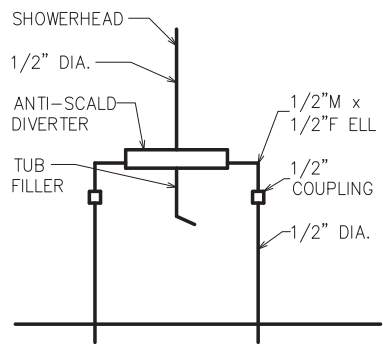
**KITCHEN SINK & LAVATORY DRAIN & VENT**



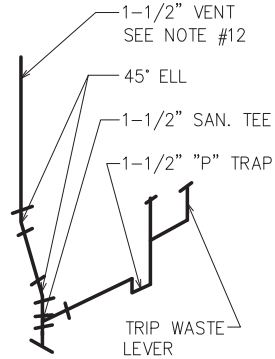
**VENT PENETRATION DETAIL**



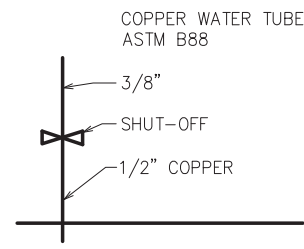
**MAIN VENT & WASTE STACK**



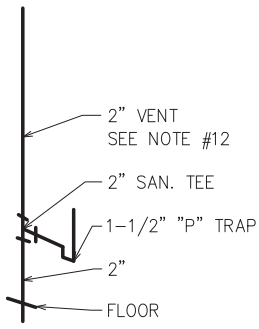
**TUB & SHOWER SUPPLY**



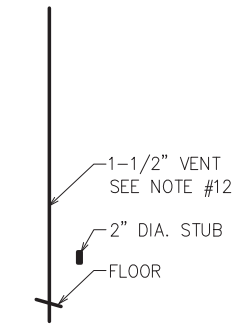
**TUB & SHOWER DRAIN & VENT**



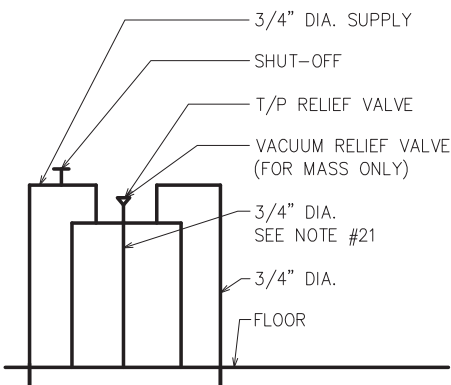
**WATER CLOSET SUPPLY**



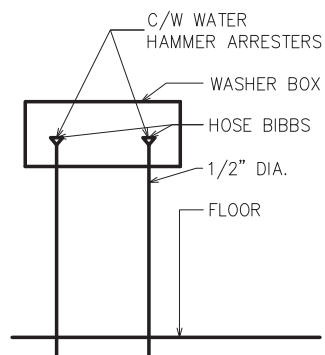
**DISHWASHER DRAIN HOOK-UP**



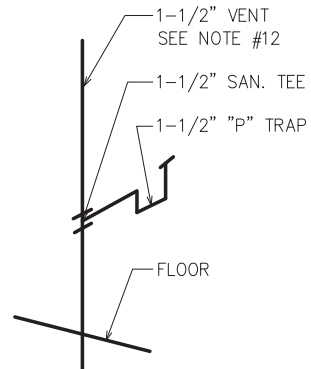
**SHOWER DRAIN & VENT**



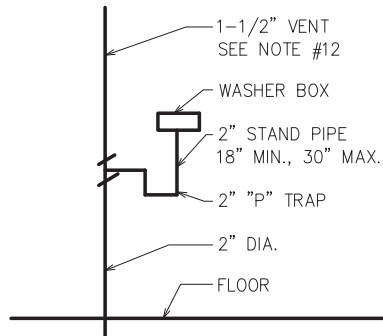
**WATER HEATER SUPPLY**  
WATER HEATERS ARE SITE INSTALLED BY CONTRACTOR



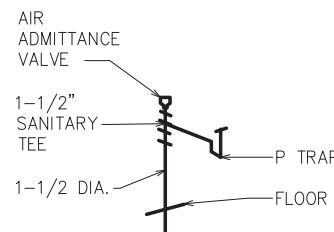
**CLOTHES WASHER SUPPLY**



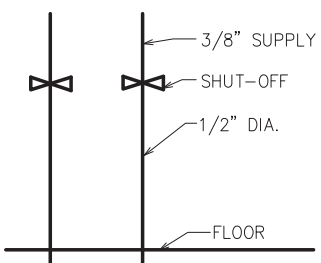
**LAVATORY DRAIN & VENT**



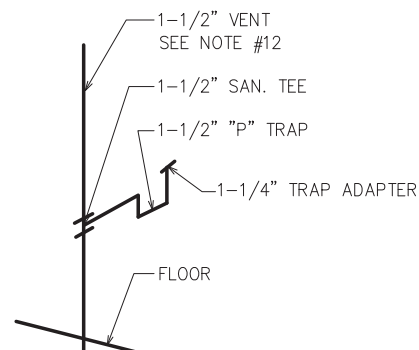
**CLOTHES WASHER DRAIN & VENT**



**AIR ADMITTANCE VALVE**



**BIDET SUPPLY**  
C/W MIXING VALVE IF REQUIRED



**BIDET DRAIN & VENT**

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**3/3/17**  
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**GENERAL NOTES 2009 UPC**

- SHUT OFF VALVES ON ALL FIXTURES.
- NO HORIZONTAL SOFT COPPER.
- MAX. FLOW RATE FOR BATH FAUCETS: 2.2 GPM & SHOWERHEADS: 2.5 GPM. MAX. TOILET FLUSH RATE: 1.6 GPF
- DRAIN, WASTE, & VENT LINES ABS SCHEDULE 40 PIPE OR EQUAL.
- SUPPLY LINES ARE TYPE L COPPER.
- ALL WASTE LINES TO SLOPE 1/4" PER FT. TO MAIN WASTE LINE.
- ALL PLUMBING NOT SHOWN IS TO BE SUPPLIED & INSTALLED ON SITE AS PER BUILDER/OWNER CONTRACT.
- AUTO VENTS NOT PERMITTED.
- FROST FREE SILL COCK OPTIONAL OR AS CODE REQUIRES.
- INTERCONNECTION OF VENTS TO BE FACTORY COMPLETE WHERE PRACTICAL ABOVE CEILING.
- HEIGHT OF WATERPROOFING IN TUB & SHOWER SPACE IS 6'-0" MIN.
- THIS VENT EITHER INCREASED TO 3" DIA. 12" BELOW ROOF LINE OR ELBOWS OVER & CONNECTS TO MAIN VENT WITH 3"x3"x1-1/2" TEE.
- COPPER PIPE SHALL BE SUPPORTED EVERY 6'-0" HORIZONTALLY AND AT EACH STOREY HEIGHT NOT TO EXCEED 10'-0" VERTICALLY.
- PLASTIC PIPE SHALL BE SUPPORTED EVERY 4'-0" HORIZONTALLY AND VERTICALLY.
- BATHTUBS & SHOWERS ARE LISTED BY AN APPROVED AGENCY.
- WALL CONSTRUCTION FOR SHOWER COMPARTMENTS AND ABOVE BUILT-IN BATHTUBS TO BE IN COMPLIANCE WITH w/901.6g 901.6h.
- MODELS WITH BASEMENTS MAY LOCATE WASHER IN BASEMENT WITH ON SITE CONNECTION AS PER BUILDER/OWNER CONTRACT.
- ALL FACTORY-INSTALLED PLUMBING IS STUBBED THROUGH SUB-FLOORING WITH SUPPLY OF MATERIALS AND COMPLETION OF PLUMBING BY SITE CONTRACTORS IN ACCORDANCE WITH GOVERNING CODES.
- HORIZONTAL TO VERTICAL CONNECTIONS TO BE WITH SANITARY TEES.
- HORIZONTAL TO HORIZONTAL AND VERTICAL TO HORIZONTAL CONNECTIONS TO BE MADE WITH LONG TURN OR TEE WYE FITTINGS.
- MAXIMUM LENGTH FROM WASTE OUTLET TO TRAP WIER IS 24".
- MAXIMUM DISTANCE OF FIXTURE TRAP TO VENT: 1-1/2"=3'-6"; 2"=5'-0"; 3"=6'-0".
- ANTI-SCALD DEVICES WILL BE USED IN ALL SHOWERS.
- MINIMUM 24" VENT EXTENSION THROUGH ROOF.
- ALL SOLDER TO BE 95/5 LEAD FREE & MEET ASTM.
- ALL WATER HEATERS ARE SITE INSTALLED & SUPPLIED BY CONTRACTOR.
- ALL PIPE INSULATION TO BE INSTALLED BY SITE CONTRACTOR.
- ALL HORIZONTAL VENT BRANCH PIPING SHALL BE LOCATED A MINIMUM OF 6" ABOVE FLOOD LEVEL RIM OF HIGHEST FIXTURE SERVED.

**SINGLE FAMILY TWO STOREY**

- SECOND FLOOR FIXTURES OR FIXTURE GROUPS WILL HAVE DRAIN STACKS SEPARATE FROM FIRST FLOOR FIXTURES OR FIXTURE GROUPS.
- FIRST FLOOR FIXTURES WILL DRAIN HORIZONTALLY INTO HOUSE DRAIN.
- ACCESS FOR FIELD CONNECTION OF BOTH SUPPLY AND DWV SYSTEM WILL BE PROVIDED THROUGH OPEN PLUMBING CHASES AND OPEN PANELS IN SUB-FLOORING OF SECOND FLOOR.

**PLUMBING MATERIAL SPECIFICATIONS**

ALL FIXTURES AND MATERIALS SHALL CONFORM TO NATIONALLY RECOGNIZED STANDARDS

Revision Date: \_\_\_\_\_  
 Drawn By: ALK  
 Original Date: Apr 17/15  
 Scale: 3/16"=1'-0"  
**Plumbing Schematics**  
**MAINE**  
**US**  
 Prestige Homes Inc.  
 14 Industrial Drive  
 Sussex, New Brunswick  
 E4E-2R8  
 Phone: (506)433-9130  
 Fax: (506)433-9141  
**prestige HOMES**  
*We're built differently.*

Maine Energy Requirements for 2013(using 2009 IRC)

Prestige Homes agrees to comply with the following as of production start date of May 8,2013 as noted below:

- Homes must comply to the minimum stds as outlined in the Energy Specifications Table below:

Energy Specifications Table

Minimum Insulation R-Value				Maximum Fenestration for Exterior Doors U-Factor		Maximum Fenestration for Windows U-Factor	Maximum Fenestration for Skylights U-Factor
Ceilings	Roof/Ceilings	Walls	Floors By Builder	Entrance	Specialty		
R-38	R-38	R-19	R-19	0.35	0.45	0.35	0.6

- For 2-story homes, the perimeter of the space between the top of the 2<sup>nd</sup> floor rim joists and finished ceiling below shall be insulated to a value of R-19
- re: 2 pc capes with unfinished 2<sup>nd</sup> floors:
  - Stair enclosures. The ceilings of the stair enclosures shall be insulated to R-30. The walls of the stair enclosures shall be insulated to R-11. (see floor plan)
  - Doors. Doors within stair enclosures shall be insulated by any means, including temporary means, to be a value of R-19 to prevent heat loss into unfinished space.
  - Ceilings. The floor/ceiling assembly between the first and second stories shall be insulated to a value of R-30, except that the ceiling area beginning at the outside walls and extending to the knee walls shall be insulated to a value of R-38. (see cross section)
- re: Homes with unconditioned basement shall be insulated as described below:
  - Basement stair enclosures. The ceilings of the basement stair enclosures shall be insulated to R-19. The walls of the basement stair enclosures shall be insulated to R-11. (see floor plan)
  - Basement door to c/w weather stripping and door sweep by retailer or manufacturer. (see floor plan or foundation plan)
  - All floor insulation as specified in Cross Section shall be installed by Builder on site
- re: Kitchen exhaust:
  - A cooking appliance shall be equipped with a separate ventilating fan/hood, independent of other ventilating systems, with a minimum rating of 100 CFM. This equipment shall exhaust at the outside of the home. This paragraph does not apply to microwave ovens, provided that:
    - The microwave oven is not sold with a separate ventilating system; and
    - The manufacturer's instructions do not require that the microwave oven be operated with a separate ventilating system.
- re: Bathroom exhaust:
  - Each bathroom with or without a tub shower unit shall be equipped with a separate ventilating fan, independent of other ventilating systems, with a minimum rating of 50 CFM. The fan shall exhaust at the outside of the home and shall be rated for sound at a maximum of 3 sone.
- re: Homes with Conditioned Basement walls shall be insulated by builder on site as per Res Check

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