

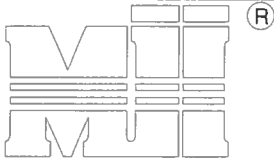
AUGUST 1, 2016

LATERAL BRACING RECOMMENDATIONS

MII-STRGBCK

MiTek USA, Inc.

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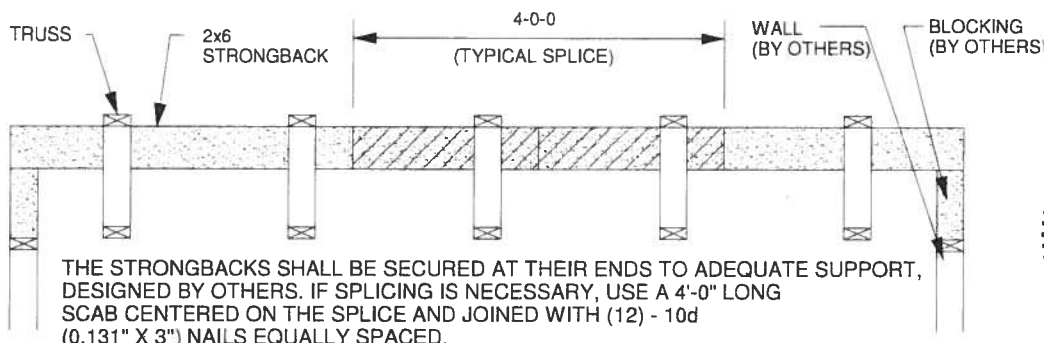
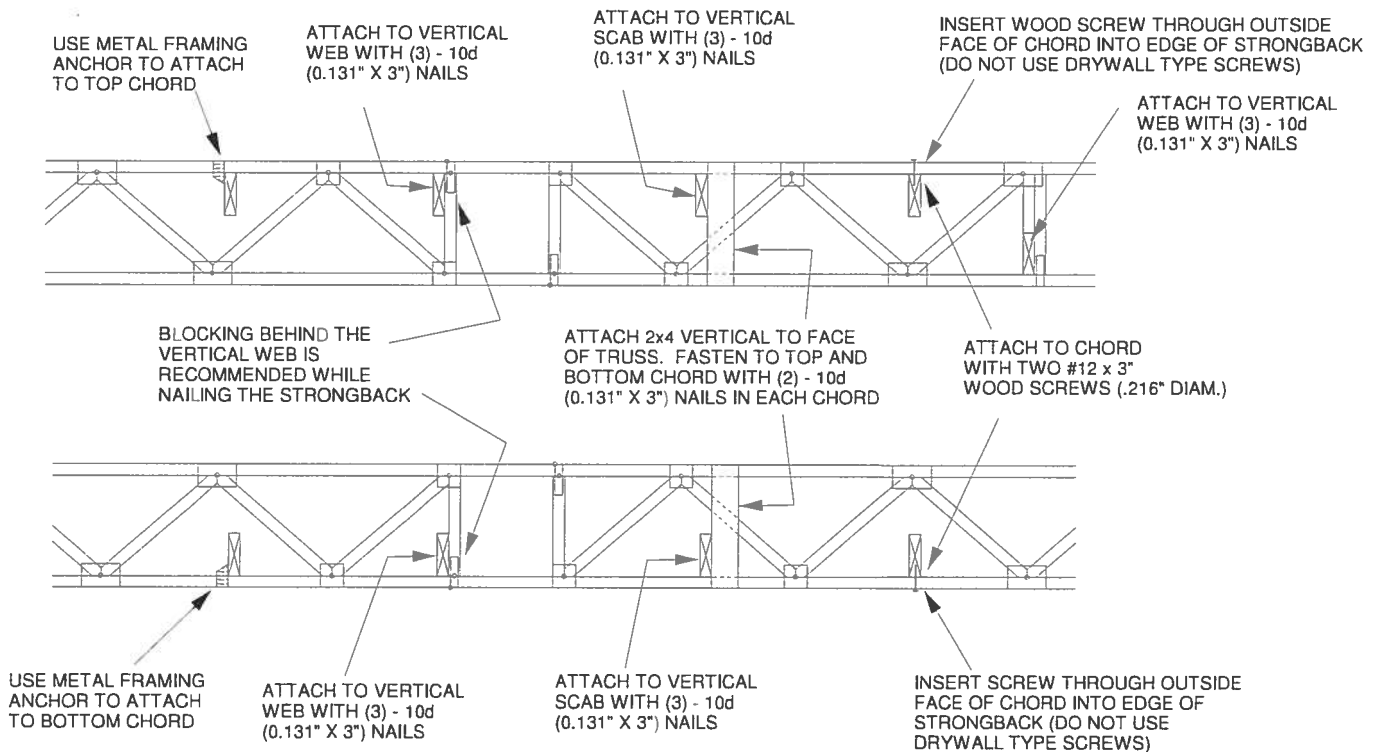
MiTek USA, Inc.

ENGINEERED BY
TERENCO
A MiTek Affiliate

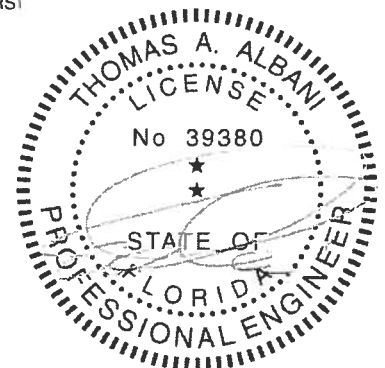
TO MINIMIZE VIBRATION COMMON TO ALL SHALLOW FRAMING SYSTEMS, 2x6 "STRONGBACK" IS RECOMMENDED, LOCATED EVERY 8 TO 10 FEET ALONG A FLOOR TRUSS.

NOTE 1: 2X6 STRONGBACK ORIENTED VERTICALLY MAY BE POSITIONED DIRECTLY UNDER THE TOP CHORD OR DIRECTLY ABOVE THE BOTTOM CHORD. SECURELY FASTENED TO THE TRUSS USING ANY OF THE METHODS ILLUSTRATED BELOW.

NOTE 2: STRONGBACK BRACING ALSO SATISFIES THE LATERAL BRACING REQUIREMENTS FOR THE BOTTOM CHORD OF THE TRUSS WHEN IT IS PLACED ON TOP OF THE BOTTOM CHORD, IS CONTINUOUS FROM END TO END, CONNECTED WITH A METHOD OTHER THAN METAL FRAMING ANCHOR, AND PROPERLY CONNECTED, BY OTHERS, AT THE ENDS.



ALTERNATE METHOD OF SPLICING:
OVERLAP STRONGBACK MEMBERS A MINIMUM OF 4'-0" AND FASTEN WITH (12) - 10d (0.131" X 3") NAILS STAGGERED AND EQUALLY SPACED.
(TO BE USED ONLY WHEN STRONGBACK IS NOT ALIGNED WITH A VERTICAL)



Thomas A. Albani PE No.39380
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

February 12, 2018

Residential System Sizing Calculation

Summary

Project Title:
Tim & Janet Westberry

Lake City, FL 32024

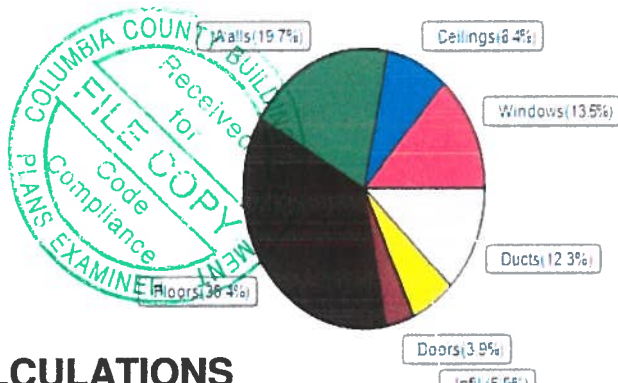
5/3/2019

Location for weather data: Gainesville, FL - Defaults: Latitude(29.7) Altitude(152 ft.) Temp Range(M)					
Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(51gr.)					
Winter design temperature(TMY3 99%) 30 F			Summer design temperature(TMY3 99%) 94 F		
Winter setpoint 70 F			Summer setpoint 75 F		
Winter temperature difference 40 F			Summer temperature difference 19 F		
Total heating load calculation 19074 Btuh			Total cooling load calculation 13527 Btuh		
Submitted heating capacity % of calc Btuh			Submitted cooling capacity % of calc Btuh		
Total (Electric Heat Pump) 125.8 24000			Sensible (SHR = 0.85) 167.9 20400		
Heat Pump + Auxiliary(0.0kW) 125.8 24000			Latent 260.9 3600		
			Total (Electric Heat Pump) 177.4 24000		

WINTER CALCULATIONS

Winter Heating Load (for 1253 sqft)

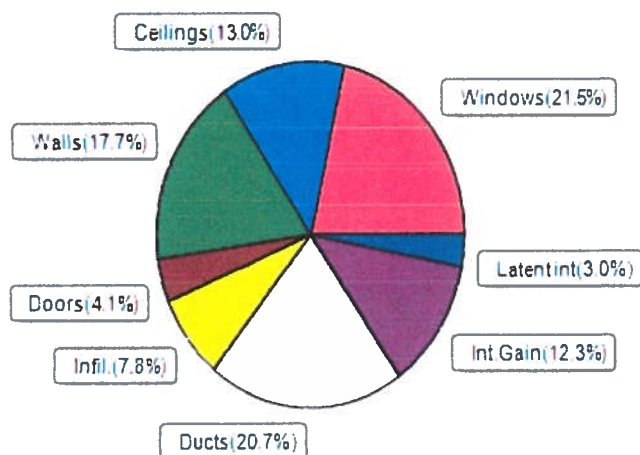
Load component		Load	
Window total	196 sqft	2583	Btuh
Wall total	1090 sqft	3760	Btuh
Door total	40 sqft	736	Btuh
Ceiling total	1253 sqft	1596	Btuh
Floor total	1253 sqft	6938	Btuh
Infiltration	26 cfm	1119	Btuh
Duct loss		2341	Btuh
Subtotal		19074	Btuh
Ventilation	0 cfm	0	Btuh
TOTAL HEAT LOSS		19074	Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 1253 sqft)

Load component		Load	
Window total	196 sqft	2908	Btuh
Wall total	1090 sqft	2397	Btuh
Door total	40 sqft	552	Btuh
Ceiling total	1253 sqft	1756	Btuh
Floor total		0	Btuh
Infiltration	19 cfm	399	Btuh
Internal gain		1660	Btuh
Duct gain		2476	Btuh
Sens. Ventilation	0 cfm	0	Btuh
Blower Load		0	Btuh
Total sensible gain		12148	Btuh
Latent gain(ducts)		318	Btuh
Latent gain(infiltration)		662	Btuh
Latent gain(ventilation)		0	Btuh
Latent gain(internal/occupants/other)		400	Btuh
Total latent gain		1380	Btuh
TOTAL HEAT GAIN		13527	Btuh



8th Edition

EnergyGauge® System Sizing

PREPARED BY: _____

DATE: _____

5-3-19