

CENTRAL BUILDER SUPPLIES
 BETTER-BILT INSTALLATION INSTRUCTIONS
 FRAME CONSTRUCTION

CONTRACTOR: _____

JOB: _____

DATE: _____

2002 FLA BUILDING CODE SH WINDOW, FIXED & PATIO DOOR INSTALLATION INSTRUCTIONS FOR 1 MPH ZONE

WINDOWS				AT ACHMEN'S			ATTACHMENTS
TYPE	MANUFACTURE	SERIES	SIZES	JAMB	HEADER	SILL	VERT. & HORZ. MULLS
SH	BETTER-BILT	SER 740 FIN	ALL	USE #8 X 1 3/4" WD OR SM SCREWS 3" IN FROM EACH CORNER THEN MAX 24" INT. SPACING			USE 2 #10 X 1 1/2" WD SCREW IN HEAD-SILL &/OR JAMB CLIP TO SUBSTRATE
HR	BETTER-BILT	SER 168 FIN	ALL	USE #8 X 1 3/4" WD OR SM SCREWS 3" IN FROM EACH CORNER THEN MAX 24" INT. SPACING			
FIXED	BETTER-BILT	SER 740 FIN	ALL	USE #8 X 1 3/4" WD OR SM SCREWS 3" IN FROM EACH CORNER THEN MAX 24" INT. SPACING			
GSD	BETTER-BILT	SER 420 & 470 FR	ALL	USE #8 X 1 3/4" WD OR SM SCREWS 6" IN FROM EACH CORNER THEN MAX 24" INT. SPACING AT 90° ANGLE TO FRONT AND BACK			
SSD	BETTER-BILT	SER 420-470 FRAME	ALL	USE #10 1/2" DD OR SM MIN 1/2" DIA. EMB IN SUBSTRATE 6" FROM ALL CORNERS THEN MIN 24" INT. SPACING FRONT TO BACK SIDE TO SIDE AND REMAINING HOLES WITH #8 WD SCREWS			

01/12/2005 14:22

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CENTRAL BUILDER SUPPLY

PAGE 03

MILLENNIUM METALS, INC.

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Calculations for attachments for RIB Panels 29ga and 26ga

Greatest mean height 30' Exposure B
Pitches 3:12 to 12:12

All raw material used by Millennium Metals, Inc. will meet or exceed
ASTM that is required by Florida building code established by table
1507.5.3 and 1508.4.3 as per the following chart:

<u>Roofing Covering Type</u>	<u>Minimum Application Rate</u>
Galvanized Steel	ASTM A653 G90 zinc coated
Prepainted Steel	ASTM A755
Aluminum Zinc Alloy Coated Steel	ASTM A792
Painted Aluminum Zinc Alloy	ASTM A792
Copper	16 oz per square foot
Aluminum	ASTM B209

1507.4 Class B roof assemblies exception: Metal sheets and shingles
meeting the criteria specified in Table 1507.3.9.2 are considered to meet
Class B roof covering provisions

By Dole J Kelley, Jr
Florida Professional Engineer - Registration #6519
2/14/03

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RJB Panels

Greatest mean height 30' exposure B - pitches 3/12 to 12/12

Zone	Type of Fastener	Attachment Material	Fastener Size	Wind Speed			
				100 mph	110 mph	120 mph	140 mph
Zone 1 thru Zone 3	Wood Screws	Existing 1/2" plywood/osb deck with battens (optional) **	#9 x 1-1/2"	On Center Spacing 16" OC	On Center Spacing 16" OC	On Center Spacing 16" OC	On Center Spacing 16" OC
		5/8" plywood / osb battens optional **	#9 x 1-1/2"	16" OC	16" OC	16" OC	16" OC
		2x4 Rafters @2' OC with Battens (see note)	#9 x 3"	24" OC	24" OC	24" OC	24" OC
	Metal Screw	12ga through 18ga	#12 x 1"	16" OC	16" OC	16" OC	16" OC
		20ga through 26ga	#14 x 7/8"	16" OC	16" OC	16" OC	See note

Typical attachment is 9" on center except as noted

Zone 3 attachment as indicated in section 1606.2.3 will vary in width but in no case be less than 3 foot see page 9

*** Note: Double screws @ 9" on center with rows of 16" per detail C

** Batten 1x4 attached over 1/2" plywood/OSB 16" on center with a #8 x 3" screw 8" on center

Note: 2x2 open rafter attachment of battens are the responsibility of the engineer of the truss section / builder. Millennium Metals makes no recommendation other than panel attachment through 1 x 4 batten.

Re-roofing over shingles with or without battens is acceptable providing there is no more than one layer of shingles present. Separation sheer is required of 15# felt if batten system is not used.

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RIB Panels

Uplift attachments -

Zone 1

Wood screws into 1/2" lumber

Uplift = 152# per inch x 1/2" = 76# x 1.6 = 121#

Table 1606.28

100 mph = 18.0# per square foot

Zone 2

100 mph = 34.8# per square foot

Zone 3

100 mph = 45.4# per square foot

121# ÷ 45.4 per square foot = 2.66 square foot

Screws @ 9" on center 2.66 square foot ÷ .75' = 3.55 foot > 1.33 foot

Note - Use 9" on center with rows at 16" on center maximum

5/8" Plywood

Pull out = 152# ÷ 11 x .625" = 95# x 1.6 = 152# screw

Zone 3 = 152# ÷ 45.4# per square foot = 3.34 square foot ÷ .75 = 4.46 foot > 1.33 foot maximum

1 x 4 Battens: @ 24" on center

Pull out = 152# per inch x 1.5" = 228# x 1.6 = 364

Maximum pullout = .75' x 2' x 45.4# per square foot = 68.1# < 36.4# capacity

Screws into metal

#12 thru 18 gauge - ult = 487 ÷ 3 = 162# x 1.3 = 210#

#14 thru 20 gauge - ult = 346 ÷ 3 = 115# x 1.3 = 149#

Maximum pullout = .75' x 1.33' x 45.4#/sq.' = 45.4# < 149#

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RIB PANEL

110 MPH

Zone 1 = -21.8# per square foot

Zone 2 = -42.1# per square foot

Zone 3 = -55.0# per square foot

Wood screws into 3/2" timber deck – pullout capacity = 121#

9" x 16" = 1 square foot = -55# < 121

**Battens optional

Wood screws into 5/8" timber deck = pullout capacity = 152#

9" x 16" = 1 square foot x -55 = 55# < 152

**Battens optional

1x4 Batten @ 24" on center = pullout capacity = 364#

9" x 24" = 1.5 square foot x -55# per square foot = -82.5# < 364

Above indicates pull out values from 1 x 4 battens not engineering of battens to truss.

Screws into Metal Deck

#12 – 18 gauge = capacity = 210#

#14 – 20 gauge = capacity = 149#

Maximum pullout = .75 x 1.33 x -55# per square foot = -55# < 149#

Above indicates pull out values from steel gauge indicated above not engineering of batten to truss.

FLORIDA BUILDING CODE - BUILDING

1606.2.5 Components and cladding. Pressure for wind loading actions on components and cladding shall be determined from Table 1606.2B for enclosed portions of the building and Table 1606.2C for over hangs based on the effective area for the element under consideration. The pressure shall be applied in accordance with the loading diagrams in figure 1606.2C.

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RIB PANEL

120 MPH

Zone 1 = -25.9# per square foot

Zone 2 = -50.1# per square foot

Zone 3 = -65.4# per square foot

Wood Screws into 1/2" timber – pullout capacity = 121#

9" x 16" = 1 square foot x 65.4# per square foot = 65.4# < 121

Attachment C / 16" on center

** Batten optional

Wood Screws into 5/8" Plywood – pullout capacity = 152#

9" x 16" = 1 square foot x 65.4# per square foot = 65.4# < 152#

Attachment C / 16" on center

** Batten optional

1x4 Batten at 24" on center

Pullout capacity = 364#

Maximum uplift - 75' x 2' x 65.4 = 981#

Attachment C / 24" on center

Above indicates pull out values from 1 x 4 battens not engineering of battens to truss

Screws into Metal Deck

#12 thru 18 gauge = 210#

#14 thru 20 gauge = 614# < 149#

In Zone 3 – Use 9"x1'0" = .75 square foot x 65.4# per square foot = 49# < 149#

Above indicates pull out values from steel gauge indicated above not engineering of
 batten to truss

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RIB PANEL

140 MPH

Zone 1 = 35.33# per square foot

Zone 2 = 68.1# per square foot

Zone 3 = 89.0# per square foot

Wood Screws into 1/2" timber – pullout capacity = 121#

9" x 16" = 1 square foot x 89# per square foot = 89# < 121#

Attachment C / 16" on center

*Batten optional

Wood Screws into 3/8" Plywood – pullout capacity = 152#

9" x 16" = 1 square foot x 89# per square foot = 89# < 152#

Attachment C / 16" on center

**Batten optional

1x4 Batten at 24" on center - pull out capacity = 364#

Uplift = 9" x 24" = 1.5 square foot x 89# per square foot = 133# < 364#

Attachment C / 24" on center

Above indicates pull out values from 1 x 4 battens, not engineering of battens to truss.

Screws into Metal Deck

#12 thru 18 gauge = 210# / 89#

#14 thru 20 gauge = 149# / screw

In zone 3 double up on screws on each side of ribs



375 x 1.33' = .5 square feet x 89.0# per square foot = 44.5# screw < 149.0#

Above indicates pull out values from 1 x 4 battens, not engineering of battens to truss.

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Table 1608.20 - Component and cladding wind loads for a building with a mean roof height of 10 feet located in Exposure B (psf)

Roof Angle = 0-10 degree

		85		90		100		110		120		130		140		50	
1	10.0	10.0	-13.0	10.0	-14.0	10.0	-16.0	10.0	-21.0	10.5	-25.5	12.4	-31.4	14.3	-38.5	18.5	-45.0
1	20.0	10.0	-12.7	10.0	-14.2	10.0	-17.5	10.0	-21.2	10.0	-25.2	11.8	-34.8	17.4	-41.1	19.4	-48.0
1	50.0	10.0	-12.2	10.0	-13.7	10.0	-18.6	10.0	-20.5	10.0	-24.4	10.5	-38.4	17.3	-43.0	19.4	-48.0
1	100.0	10.0	-11.9	10.0	-13.3	10.0	-16.5	10.0	-19.9	10.0	-29.7	10.0	-27.8	11.4	-32.3	10.0	-37.0
2	10.0	10.0	-21.8	10.0	-24.4	10.0	-30.2	10.0	-36.5	10.5	-43.5	12.4	-51.0	14.9	-59.0	16.5	-67.0
2	20.0	10.0	-19.5	10.0	-21.9	10.0	-27.0	10.0	-32.8	10.0	-39.5	11.8	-45.1	14.4	-52.0	15.4	-60.0
2	50.0	10.0	-16.4	10.0	-18.4	10.0	-22.7	10.0	-27.5	10.0	-32.7	10.6	-38.4	12.3	-44.5	14.1	-50.1
2	100.0	10.0	-14.1	10.0	-15.8	10.0	-18.5	10.0	-20.1	10.0	-23.1	11.4	-26.2	11.4	-29.2	13.0	-35.0
3	10.0	10.0	-32.8	10.0	-36.8	10.0	-45.4	10.0	-55.0	10.5	-65.4	12.4	-75.4	14.3	-85.0	16.5	-102.0
3	20.0	10.0	-27.2	10.0	-30.25	10.0	-37.0	10.0	-46.5	10.0	-54.2	11.8	-63.5	13.4	-73.5	15.4	-84.0
3	50.0	10.0	-19.7	10.0	-22.1	10.0	-27.3	10.0	-33.1	10.0	-39.3	10.8	-48.2	12.3	-58.4	14.1	-68.5
3	100.0	10.0	-14.1	10.0	-15.8	10.0	-19.5	10.0	-23.8	10.0	-28.1	10.0	-33.0	11.4	-38.2	13.0	-43.5

Roof Angle = 10-30 degree

1	10.7	10.0	-11.9	10.0	-13.3	10.4	-16.5	12.5	-19.9	14.9	-23.7	17.5	-27.5	20.5	-32.3	25.1	-37.0
1	20.0	10.0	-11.6	10.0	-13.0	10.0	-16.0	11.4	-19.4	13.6	-23.0	16.0	-27.0	18.5	-31.4	21.3	-35.0
1	50.0	10.0	-11.1	10.0	-12.5	10.0	-15.4	10.0	-18.4	11.9	-22.2	13.9	-25.0	15.1	-30.2	18.5	-34.0
1	100.0	10.0	-10.8	10.0	-12.1	10.0	-14.9	10.0	-18.1	10.5	-21.5	12.4	-25.2	14.0	-29.0	16.4	-33.0
2	10.0	10.0	-25.1	10.0	-28.2	10.4	-34.6	12.5	-42.1	14.9	-50.1	17.6	-59.0	20.3	-68.1	23.3	-78.0
2	20.0	10.0	-22.8	10.0	-25.8	10.0	-31.5	11.4	-39.2	13.6	-45.4	16.0	-53.3	18.5	-61.4	21.3	-71.0
2	50.0	10.0	-19.7	10.0	-22.1	10.0	-27.3	10.0	-33.1	11.9	-39.3	13.9	-46.1	16.1	-53.5	18.5	-64.4
2	100.0	10.0	-17.4	10.0	-19.5	10.0	-23.1	10.0	-28.1	10.5	-34.1	12.4	-40.1	14.3	-47.2	16.5	-54.0
3	10.0	10.0	-25.1	10.0	-28.2	10.4	-34.6	12.5	-42.1	14.9	-50.1	17.6	-59.0	20.3	-68.1	23.3	-78.0
3	20.0	10.0	-22.8	10.0	-25.8	10.0	-31.5	11.4	-39.2	13.6	-45.4	16.0	-53.3	18.5	-61.4	21.3	-71.0
3	50.0	10.0	-19.7	10.0	-22.1	10.0	-27.3	10.0	-33.1	11.9	-39.3	13.9	-46.1	16.1	-53.5	18.5	-64.4
3	100.0	10.0	-17.4	10.0	-19.5	10.0	-23.1	10.0	-28.1	10.5	-34.1	12.4	-40.1	14.3	-47.2	16.5	-54.0

Roof Angle = 30-45 degree

	10.0	11.8	-13.0	13.3	-14.6	16.5	-18.0	19.9	-21.8	23.7	-25.9	27.8	-30.0	32.3	-35.3	37.0	-40.0
1	20.0	11.8	-13.2	13.0	-13.8	16.0	-17.1	19.4	-20.7	23.0	-24.6	27.0	-28.5	31.4	-33.5	36.0	-38.4
1	50.0	11.1	-11.5	12.5	-12.8	15.4	-15.9	18.8	-19.2	22.7	-23.8	25.0	-25.5	30.2	-31.1	34.4	-35.9
1	100.0	10.8	-10.8	12.1	-12.1	14.9	-14.9	18.1	-18.1	21.5	-21.5	25.2	-25.2	29.3	-29.3	33.8	-33.8
2	10.0	11.8	-18.2	13.3	-17.0	16.5	-21.0	19.9	-25.5	23.7	-30.3	27.8	-34.4	32.3	-41.0	37.0	-47.0
2	20.0	11.8	-14.5	13.0	-16.2	16.0	-20.1	19.4	-24.3	23.0	-29.0	27.0	-33.4	31.4	-39.4	36.0	-45.0
2	50.0	11.1	-13.7	12.5	-15.3	15.4	-18.0	18.6	-22.8	22.2	-27.2	26.0	-32.1	30.2	-37.1	34.4	-42.0
2	100.0	10.8	-13.0	12.1	-14.6	14.9	-18.0	18.1	-21.8	21.5	-25.9	26.2	-30.4	29.3	-35.4	34.5	-40.5
3	10.0	11.9	-15.2	13.3	-17.0	16.5	-21.0	19.9	-25.5	23.7	-30.3	27.8	-34.4	32.3	-41.0	37.0	-47.0
3	20.0	11.8	-14.5	13.0	-16.3	16.0	-20.1	19.4	-24.3	23.0	-29.0	27.0	-33.4	31.4	-39.4	36.0	-45.0
3	50.0	11.1	-13.7	12.5	-15.3	15.4	-18.0	18.6	-22.8	22.2	-27.2	26.0	-32.1	30.2	-37.1	34.4	-42.0
3	100.0	10.8	-13.0	12.1	-14.6	14.9	-18.0	18.1	-21.8	21.5	-25.9	26.2	-30.4	29.3	-35.4	34.5	-40.5

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FIGURE 1606.2a

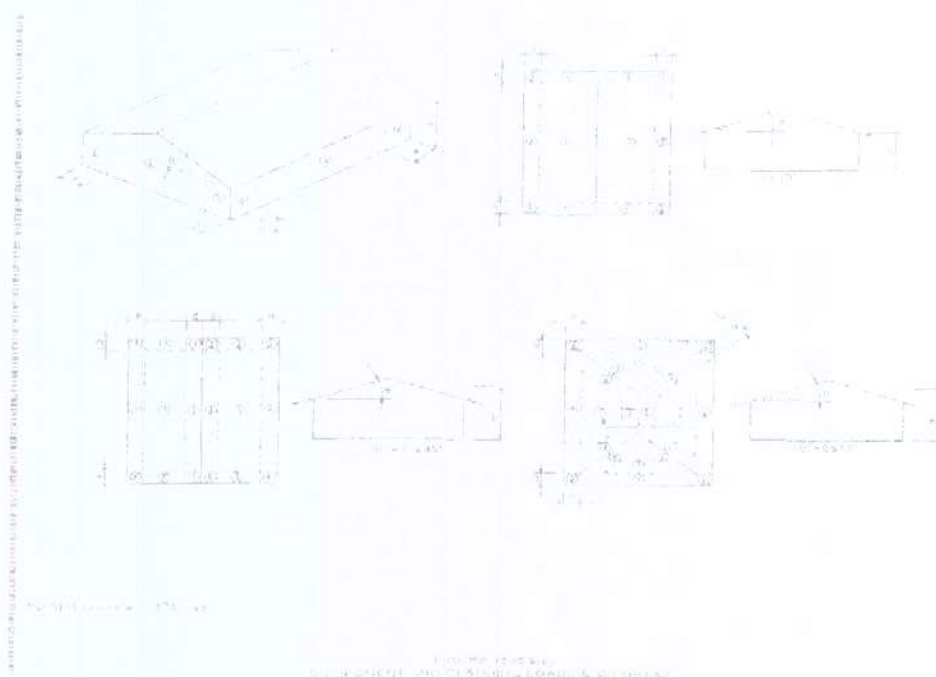


FIGURE 1606.2b

FIGURE 1606.2c

FIGURE 1606.2d

FIGURE 1606.2e

1606.2.3 Edge strips and end zones. The width of the edge strips (a), as shown in figure 1606.2 (a) shall be 10% of the least horizontal dimension of 40% of the eave height, whichever is less but not less than either 4% of the least horizontal dimension of 3 feet (914 mm). End zones as shown in figure 1606.2b shall be twice the width of the edge strip (a).

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Rib Panel

Ultimate Pullout Values (Pound)
ULTIMATE PULLOUT VALUES
(POUNDS)

1/4"	3/8"	1/2"	5/8"	3/4"	7/8"	1"	1 1/8"	1 1/4"	1 3/8"	1 1/2"	1 5/8"	1 3/4"	1 7/8"	2"
1100	1500	2000	2500	3000	3500	4000	4500	5000	5500	6000	6500	7000	7500	8000

Source: Engineering Research, Inc.

Ultimate Shear Values (Pounds)
ULTIMATE SHEAR VALUES
(POUNDS)

1/4"	3/8"	1/2"	5/8"	3/4"	7/8"	1"	1 1/8"	1 1/4"	1 3/8"	1 1/2"	1 5/8"	1 3/4"	1 7/8"	2"
1100	1500	2000	2500	3000	3500	4000	4500	5000	5500	6000	6500	7000	7500	8000

Source: Engineering Research, Inc.

CHARACTERISTICS

Material	Thickness	Width	Length	Weight
1/4"	1/4"	1/4"	1/4"	1/4"
3/8"	3/8"	3/8"	3/8"	3/8"
1/2"	1/2"	1/2"	1/2"	1/2"
5/8"	5/8"	5/8"	5/8"	5/8"
3/4"	3/4"	3/4"	3/4"	3/4"
7/8"	7/8"	7/8"	7/8"	7/8"
1"	1"	1"	1"	1"
1 1/8"	1 1/8"	1 1/8"	1 1/8"	1 1/8"
1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"
1 3/8"	1 3/8"	1 3/8"	1 3/8"	1 3/8"
1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"
1 5/8"	1 5/8"	1 5/8"	1 5/8"	1 5/8"
1 3/4"	1 3/4"	1 3/4"	1 3/4"	1 3/4"
1 7/8"	1 7/8"	1 7/8"	1 7/8"	1 7/8"
2"	2"	2"	2"	2"

NOMINAL SCREW SIZES		SHEET STEEL GAUGES		THICKNESS RECOMMENDATIONS FOR TRAXX/TEKS*											
Thread Diameter	Decimal Equivalent	Common Sheet Steel Gauge	Decimal Equivalent												
#6	.140	26	.010												
#7	.170	24	.004												
#8	.180	22	.004												
#10	.200	20	.006												
#11	.210	18	.006												
#12	.210	16	.006												
#13	.230	14	.006												
#14	.240	12	.006												
#16	.250	10	.010												

DRILLING TECHNIQUE

Table 2.3.2 Frequently Used Load Duration Factors			
Load Duration	C _d	Typical Design Loads	
Permanent	0.9	Dead Load	
Ten Years	1.0	Occupancy Live Load	
Two months	1.15	Snow Load	
Seven days	1.25	Construction Load	
Ten minutes	1.6	Wind/Earthquake Load	
Impact	2.0	Impact Load	

Table 11.2A Cut thread or Rolled Thread Wood Screw Withdrawal Design Values (W)															
Design Values (W)															
Tabular Withdrawal Design Values (W) are in pounds per inch of thread penetration into side of main member. Thread length is approximately 2/3 the total wood screw length. (See reference 7)															
Screw Size	Wood Species Grade														
	6d	7d	8d	9d	10d	12d	14d	16d	18d	20d	22d	24d	26d	28d	30d
0.75	205	225	245	265	285	307	327	347	367	387	407	427	447	467	487
0.71	195	215	235	255	275	295	315	335	355	375	395	415	435	455	475
0.68	181	199	216	233	250	264	278	292	306	320	334	348	362	376	390
0.67	178	195	212	229	243	257	271	285	299	313	327	341	355	369	383
0.64	162	178	194	210	226	242	258	274	290	306	322	338	354	370	386
0.62	150	165	180	195	210	225	240	255	270	285	300	315	330	345	360
0.57	132	145	158	171	184	197	210	223	236	249	262	275	288	301	314
0.55	119	130	141	152	163	174	185	196	207	218	229	240	251	262	273
0.51	102	112	121	131	141	151	161	171	181	191	201	211	221	231	241
0.50	95	104	113	122	131	140	149	158	167	176	185	194	203	212	221

Application #	FL3576						
Date Submitted	10/28/2004						
Code Version	2001						
Product Manufacturer	MILLENNIUM METALS INC						
Address/Phone/email	1333 HAINES STREET EXP JACKSONVILLE, FL 32202 (877) 664-7663						
Category	Roofing						
Subcategory	Non-structural Metal Roofing						
Evaluation Method	Evaluation Report from a Florida Registered Architect or Florida Professional Engineer						
Referenced Standards from the Florida Building Code	<table border="0"> <thead> <tr> <th><u>Section</u></th> <th><u>Standard</u></th> <th><u>Year</u></th> </tr> </thead> <tbody> <tr> <td>1507.5</td> <td>UL 580</td> <td>1994</td> </tr> </tbody> </table>	<u>Section</u>	<u>Standard</u>	<u>Year</u>	1507.5	UL 580	1994
<u>Section</u>	<u>Standard</u>	<u>Year</u>					
1507.5	UL 580	1994					
Florida Engineer or Architect Name	James L. Buckner						
Florida License	PE-31242						
Quality Assurance Entity	Underwriters Laboratories Inc.						
Validation Entity	Warren W. Schaefer, P.E.						
Authorized Signature	James Buckner jmbuck@cbuckinc.net						
Evaluation Test Reports Uploaded	PTID_3576_T_1-3VandMillenniumV_24in_26GaSteelOnWood_EVALREPORT.pdf PTID_3576_T_1-MillenniumRib_36in_29GaSteelOnWood_EVALREPORT.pdf PTID_3576_T_CertOfIndep&QA.pdf						
Installation Documents Uploaded							
Product Approval Method	Method 1 Option D						
Application Status	Approved						

Date Submitted: 01/09/2004
Date Specified: 12/08/2004
User Submitted by: [redacted]

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App/Seq #	Product Model # or Name	Model Description	Limits of Use
3576.1	1- "S-V Crimp" and "Millennium-Rib"	Minimum 26 GA Steel, Maximum 24" Wide Panel over Wood Deck	Design Pressure = 112.5 psf Increased design pressures at perimeter and corner areas in compliance with Florida Building Code, Chapter 16, may be met through rational analysis. The required design wind loads shall be determined for each project. The maximum fastener spacing listed herein shall not be exceeded. All rational analysis computations shall be prepared by a qualified design professional as required by Florida Building Code, Section 104. This product is not approved for use in the High Velocity Hurricane Zone. Refer to Evaluation Report.
3576.2	2- "Millennium Rib"	Minimum 29 GA Steel, Maximum 36" Wide Panel over Wood Deck	Design Pressure = 71 psf Increased design pressures at perimeter and corner areas in compliance with Florida Building Code, Chapter 16, may be met through rational analysis. The required design wind loads shall be determined for each project. The maximum fastener spacing listed herein shall not be exceeded. All rational analysis computations shall be prepared by a qualified design professional as required by Florida Building Code, Section 104. This product is not approved for use in the High Velocity Hurricane Zone. Refer to Evaluation Report.