



EVALUATION REPORT

FLORIDA BUILDING CODE, 8TH EDITION (2023)

Manufacturer: DAN'S CUSTOM SHEET METAL, INC. *Issued September 13, 2023*
5700 Washington Street
Naples, FL 34109
(239) 594-0530
<http://www.dcsm.net>

Manufacturing: Naples, FL

Quality Assurance: Architectural Testing, Inc., an Intertek Company (QUA1844)

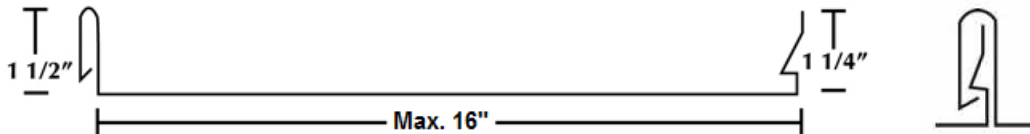
SCOPE

Category: Roofing
Subcategory: Metal Roofing
Code Sections: 1504.3.1, 1504.3.2
Properties: Wind Resistance

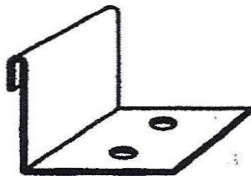
PRODUCT DESCRIPTION

VS-150 Panel (0.032 Aluminum)

Profile: 1-1/2 in. snap lock seam; 16 in. coverage
Description: Non-structural, snap lock standing seam roof panel
Material: Min. 0.032 in. ASTM B209 aluminum; Shall conform with FBC Section 1507.4.3



24 ga. VS SS Clip:



Shall conform with section 1506.7.

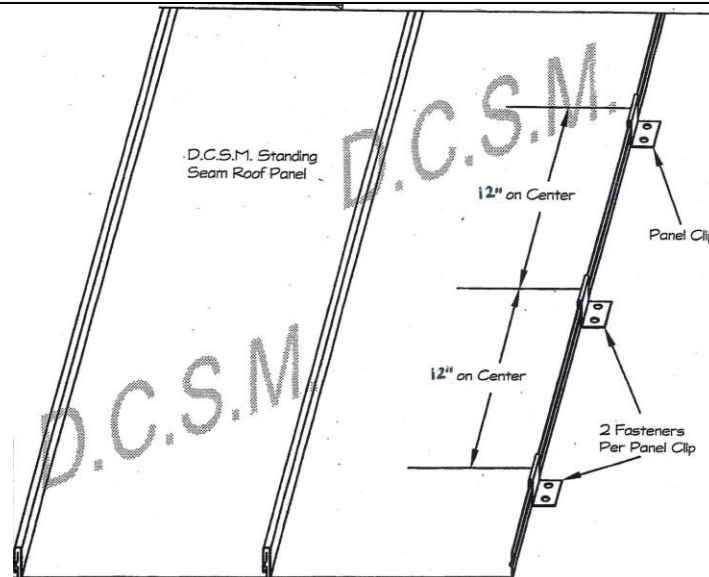
#10 x 1-inch Pancake Head Screw



Shall conform with section 1506.6 and 1507.4.4

APPROVED ASSEMBLIES
VS-150 Panel (0.032 Aluminum) – Detail A

Slope:	Shall be in accordance with FBC Section 1507.4.2
Roof Deck:	Minimum 19/32-inch 40/20 span rated, 4-ply, CDX plywood sheathing for new and existing roof deck (Deck shall be designed by others in accordance with FBC requirements).
Underlayment:	Installed in accordance with FBC requirements.
Attachment:	24 ga. VS SS Clip shall be installed with two (2) #10 pancake head wood screws at maximum 12 in. o.c. along the panel seam. Fasteners shall penetrate the deck a min. 3/8 in.
Maximum Design Pressures:	-82.5 psf <i>Pressure calculated using 2:1 margin of safety per 1504.9</i>


Maximum Mean Roof Heights
 Slopes 2:12 – 12:12

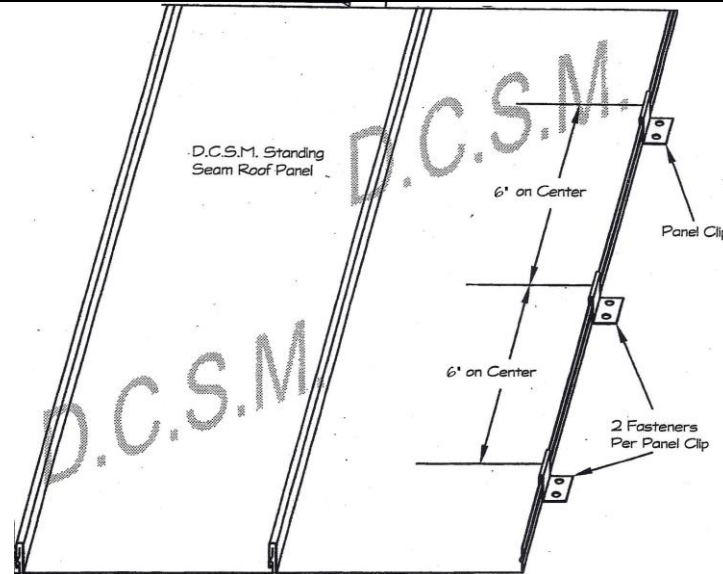
Exposure	Basic Wind Speed (mph)								
	120	130	140	150	160	170	180	190	200
Zone 1 for Gable/Hip Roofs									
B	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	53 ft	36 ft
C	60 ft	60 ft	60 ft	60 ft	60 ft	33 ft	19 ft	NA	NA
D	60 ft	60 ft	60 ft	52 ft	25 ft	NA	NA	NA	NA
Zone 2 for Gable Roofs and Zones 2 & 3 for Hip Roofs									
B	60 ft	60 ft	60 ft	60 ft	60 ft	43 ft	28 ft	18 ft	NA
C	60 ft	60 ft	57 ft	29 ft	15 ft	NA	NA	NA	NA
D	60 ft	55 ft	23 ft	NA	NA	NA	NA	NA	NA
Zone 3 for Gable Roofs									
B	60 ft	60 ft	60 ft	39 ft	24 ft	15 ft	NA	NA	NA
C	60 ft	31 ft	15 ft	NA	NA	NA	NA	NA	NA
D	29 ft	NA	NA	NA	NA	NA	NA	NA	NA

Notes: 1) Exposure category for the structure location shall be as defined in the Florida Building Code 2) Limitations are based on an effective wind area of 10ft² or less 3) Topographic factors such as escarpments or hills are not included in the above assessment 4) Applicable for Enclosed Buildings without overhangs 5) NA = "Not Allowed" 6) $K_d = 0.85$ 7) $K_e = 1.0$ 8) Projects with mean roof heights of greater than 60 ft shall be evaluated by a licensed design professional 9) See page 5 for details for dimensions and locales of Zone 1, 2, and 3 10) V_{ult} is shown in the tables above. Design wind loads are calculated using $V_{asd} = V_{ult} \sqrt{0.6}$ per 1609.3.1.



VS-150 Panel (0.032 Aluminum) – Detail B

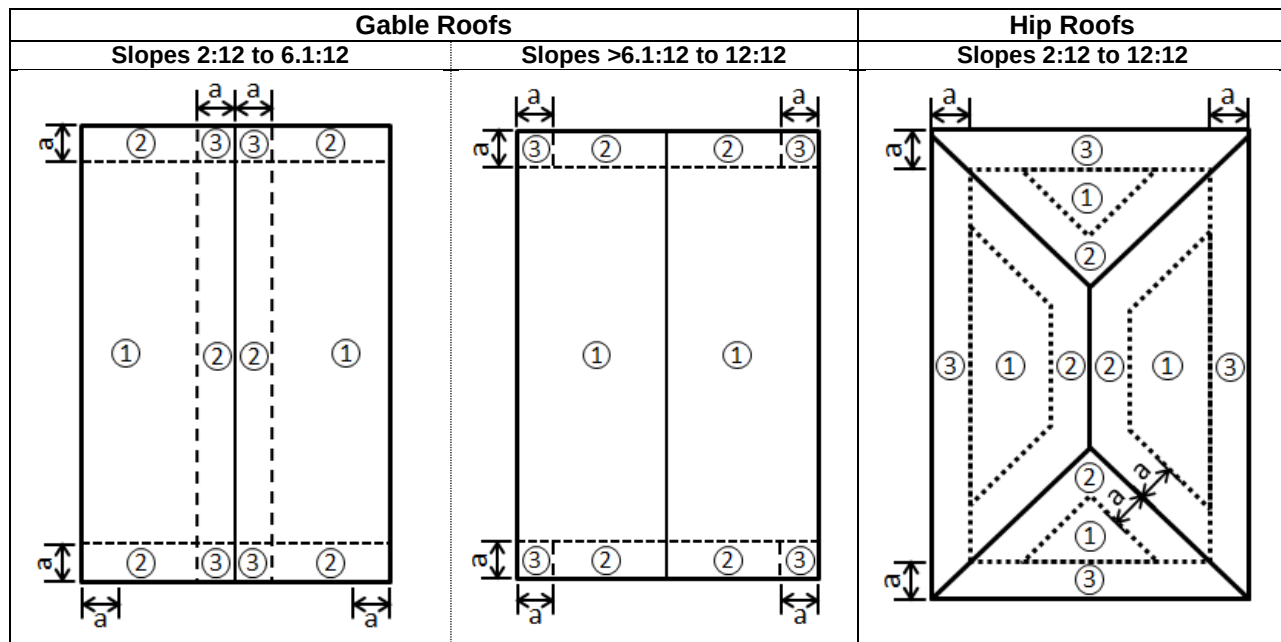
Slope:	Shall be in accordance with FBC Section 1507.4.2
Roof Deck:	Minimum 19/32-inch 40/20 span rated, 4-ply, CDX rated plywood sheathing for new and existing roof deck (Deck shall be designed by others in accordance with FBC requirements).
Underlayment:	Installed in accordance with FBC requirements.
Attachment:	24 ga. VS SS Clip shall be installed with two (2) #10 pancake head screws at max. 6 in. o.c. along the panel seam; OSI RT-600 Roof Tile Adhesive applied in a single bead along the middle of the clip at the seam. Fasteners shall penetrate the deck a min. 3/8 in.
Maximum Design Pressures:	-82.5 psf <i>Pressure calculated using 2:1 margin of safety per 1504.9</i>



Maximum Mean Roof Heights Slopes 2:12 – 12:12

Exposure	Basic Wind Speed (mph)								
	120	130	140	150	160	170	180	190	200
Zone 1 for Gable/Hip Roofs									
B	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	53 ft	36 ft
C	60 ft	60 ft	60 ft	60 ft	60 ft	33 ft	19 ft	NA	NA
D	60 ft	60 ft	60 ft	52 ft	25 ft	NA	NA	NA	NA
Zone 2 for Gable Roofs and Zones 2 & 3 for Hip Roofs									
B	60 ft	60 ft	60 ft	60 ft	60 ft	43 ft	28 ft	18 ft	NA
C	60 ft	60 ft	57 ft	29 ft	15 ft	NA	NA	NA	NA
D	60 ft	55 ft	23 ft	NA	NA	NA	NA	NA	NA
Zone 3 for Gable Roofs									
B	60 ft	60 ft	60 ft	39 ft	24 ft	15 ft	NA	NA	NA
C	60 ft	31 ft	15 ft	NA	NA	NA	NA	NA	NA
D	29 ft	NA	NA	NA	NA	NA	NA	NA	NA

Notes: 1) Exposure category for the structure location shall be as defined in the Florida Building Code 2) Limitations are based on an effective wind area of 10ft² or less 3) Topographic factors such as escarpments or hills are not included in the above assessment 4) Applicable for Enclosed Buildings without overhangs 5) NA = "Not Allowed" 6) $K_d = 0.85$ 7) $K_e = 1.0$ 8) Projects with mean roof heights of greater than 60 ft shall be evaluated by a licensed design professional 9) See page 5 for details for dimensions and locales of Zone 1, 2, and 3 10) V_{ult} is shown in the tables above. Design wind loads are calculated using $V_{asd} = V_{ult} \sqrt{0.6}$ per 1609.3.1.



Dimension "a" shall be 10% of the least horizontal dimension or (0.4 x *Mean Roof Height*), whichever is smaller, but not less than either 4% of the least horizontal dimension or 3ft.

REFERENCES

Entity	Report No.	Standard	Year
PRI Construction Materials Technologies (TST5878)	DCSM-012-02-01.03	UL 580	2006
PRI Construction Materials Technologies (TST5878)	DCSM-012-02-01.03	UL 1897	2015

LIMITATIONS

1. This report is not for use in the HVHZ.
2. Fire classification is not within the scope of this evaluation.
3. The roof deck and the roof deck attachment shall be designed by others to meet the minimum design loads established for components and cladding and in accordance with FBC requirements.
4. Reroofing shall be in accordance with FBC Section 1511.
5. Installation of the evaluated products shall comply with this report, the FBC and the manufacturer's published application instructions. Where discrepancies exist between these sources, the more restrictive and FBC compliant installation detail shall prevail.
6. All products listed in this report shall be manufactured under a quality assurance program in compliance with Rule 61G20-3.

COMPLIANCE STATEMENT

The products evaluated herein by Zachary R. Priest, P.E. have demonstrated compliance with the Florida Building Code, 8th Edition (2023) as evidenced in the referenced documents submitted by the named manufacturer.



This item has been
digitally signed and
sealed by Zachary R.
Priest, PE, on 9/13/2023.

Printed copies of this
document are not
considered signed and
sealed and the signature
must be verified on any
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Digitally signed by Zachary R. Priest
CREEK Technical Services, LLC

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Zachary R. Priest, P.E.
Florida Registration No. 74021
Organization No. ANE9641

CERTIFICATION OF INDEPENDENCE

CREEK Technical Services, LLC does not have, nor will it acquire, a financial interest in any company manufacturing or distributing products under this evaluation.

CREEK Technical Services, LLC is not owned, operated, or controlled by any company manufacturing or distributing products under this evaluation.

Zachary R. Priest, P.E. does not have, nor will acquire, a financial interest in any company manufacturing or distributing products under this evaluation.

Zachary R. Priest, P.E. does not have, nor will acquire, a financial interest in any other entity involved in the approval process of the product.

END OF REPORT