

Compliant with CURRENT Florida Building Code  
Compliant with Florida Product Approval Rule # 61G20-3  
Compliant Quality Assurance Program: Keystone Certifications

**Underlayment: See Table 1507**

**FL 18525 1.5 Mechanical Lock .032 min. AL over 19/32" Sealed APA Plywood Non-Structural Application Non-HVHZ**

**20" wide Rib Height: 1-1/2" mechanically seamed forming 180° double lock seam**

Corrosion Resistant Fasteners: (2) #14-13 Truss head steel fasteners to penetrate 1/4" min through plywood.

Clip: 1500SC 1-1/2" sliding clip Top: .030" Stainless Steel Base: 16GA galvanized steel

Substrate: 19/32" sealed APA plywood grade C-D over supports @ max. 24" O.C. spacing. The plywood must be sealed at every plywood joint with one part Urethane Sealant.

**Design Pressure:	Clip Spacing:	Fasteners per Clip:
-72 PSF	36" O.C.	2

**FL 18525 1.5 Mechanical Lock 24GA over 15/32" APA Plywood Non-Structural Application HVHZ**

**16" wide 50ksi Rib Height: 1-1/2" mechanically seamed forming 180° double lock seam**

Material: 24GA Steel, ASTM A792 coated w/ Valspar Fluoropon or ASTM A653 G90. [See table 1507 in CURRENT FBC ]

Corrosion Resistant Fasteners: (2) #12-11 x 1 Pancake Head Type A to penetrate 1/4" min. through plywood.

Clip: 1500SC 1-1/2" sliding clip Top: 22GA galvanized steel Base: 16GA galvanized steel

Substrate: Existing Construction: 15/32" APA plywood. New Construction: 19/32" APA plywood. For HVHZ ADDITIONAL 15/32" APA plywood is required. All plywood over supports at max. 24" o.c. spacing. Install per manufacturer's details and RAS 133.

**Design Pressure:	Clip Spacing:	Fasteners per Clip:
-59.75 PSF	24" O.C.	2
-123 PSF	6" O.C.	2

**FL 18525 1.5 Nail Strip 24 GA over 15/32" APA Plywood Non-Structural Application HVHZ**

**15 1/2" wide 50ksi Rib Height: 1-1/2" slotted strip snap lock seam**

Material: 24GA Steel, ASTM A792 coated w/ Valspar Fluoropon or ASTM A653 G90. [See table 1507 in FBC ]

Corrosion Resistant Fasteners: To penetrate 1/4" min. through plywood.

Fastened thru slot: #12-11 x 1" Pancake Head Type A In Pan of Panel: (2) #10-11 x 1" Eclipse Head Type A

Substrate: Existing Construction: 15/32" APA plywood. New Construction: 19/32" APA plywood. For HVHZ ADDITIONAL 15/32" APA plywood is required. All plywood over supports at max. 24" o.c. spacing. Install per manufacturer's details and RAS 133.

**Design Pressure:	Panel Slot Fastening:	Panel Pan Fastening:
-78.5 PSF	11" O.C.	6 1/2"
-116 PSF	N/A	12" O.C.

**FL 18525 1.5 Snap Lock over 15/32" APA Plywood Grade C-D Non-Structural Application HVHZ**

**36" wide 50ksi Rib Height: 3/4" tall @ 9" o.c. thru fastened**

Material: 24GA Steel, ASTM A792 coated w/ Valspar Fluoropon or ASTM A653 G90. [See table 1507 .4.3(2) in FBC Clip:

Corrosion Resistant Fasteners: (2) #12-11 x 1" Pancake Head Type A 1500SNS, fixed 18GA steel, 3 1/2" long

Substrate: Existing Construction: 15/32" APA plywood, Grade C-D. New Construction: 19/32" APA plywood. For HVHZ ADDITIONAL 15/32" APA plywood is required. All plywood over supports at max. 24" o.c. spacing. Install per manufacturer's details and RAS 133.

**Design Pressure:	Clip Spacing:	Fasteners per Clip:
-86 PSF	24" O.C.	2
-108.5 PSF	12" O.C.	2
-116 PSF	6" O.C.	2

**\*\*DESIGN PRESSURE INCLUDES A SAFETY MARGIN OF 2:1**

Reference Data:

Underwriter's Laboratory  
File #: R21264

Test Assembly #7

02NK11243/03NB13142  
Construction #603

UL 580-94<sup>1</sup>/UL 1897-98<sup>2</sup>

Force Engineering & Testing (TST-5328)	72-0313T-06	TAS 125-03
Farabaugh Engineering & Testing (TST-1654)	T157-07	TAS 100-95
Force Engineering & Testing (TST-5328)	72-0190T-07	TAS 125-03
Farabaugh Engineering & Testing (TST-1654)	T349-07	TAS 100-95
Force Engineering & Testing (TST-5328)	72-01008T-07	TAS 125-03
Farabaugh Engineering & Testing (TST-1654)	T107-07	TAS 100-95
PRI Asphalt Technologies	VLS-004-02-01/VLS-005-02-01	TAS110-00 (ASTM G 26/B 117)

1. UL 580-94 test standards are equivalent to UL 580-06 test standards.

2. UL 1897-98 test standards are equivalent to UL 1897-12 test standards.

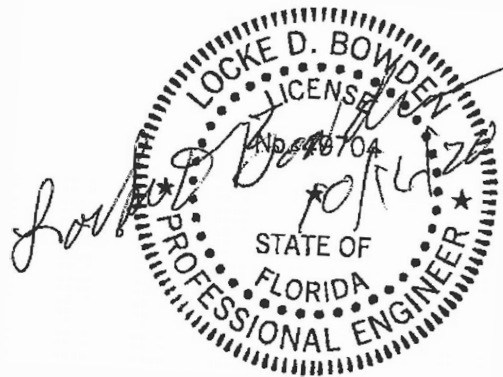
*Metalfforming, Inc. gives the above manufacturer permission to use these test reports.*

- Limitations:
- Underlayment to be compliance with current Florida Building Code (FBC). see Chart 1507
  - Minimum slope to be compliant with Florida Building Code and per with Manufacturer's installation reference.
  - Products are compliant with State of Florida product approval per Rule 61G20-3. Compliance Method: 1-D
  - Engineering analysis for "project specific approval by local authorities w/jurisdiction is allowed by other registered engineers.
  - Fire classification is not part of this acceptance. Shear diaphragm values are outside this report.
  - Support framing in compliance w/CURRENT FBC , Chapter 22 Steel, Chapter 23 Wood and Chapter 16 Structural Loading.
  - This report does not imply warranty, installation, recommended product use outside of this report.

**Certificate of Independence:**

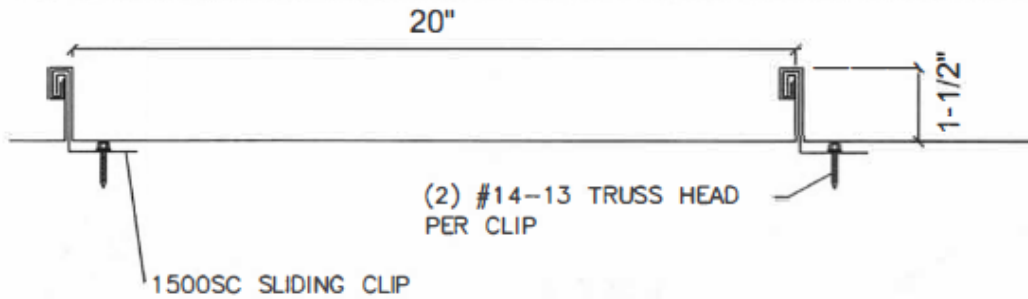
Locke Bowden, P.E. does not have, not will acquire a financial interest in any company manufacturing or distributing products under this evaluation.

Locke Bowden, P.E. is not owned, operated, or controlled by any company, manufacturer, or distributing products under this report.

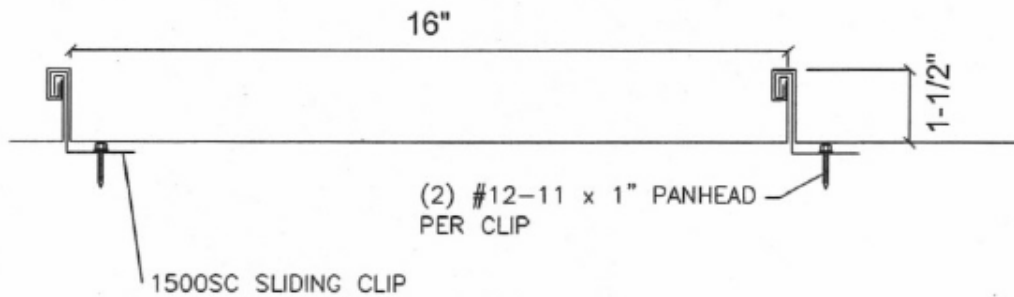


FL18525 Mullets Aluminum  
Installation Details

1.5" MECHANICAL LOCK, 0.032" ALUM., 20" WIDE, CLIP SPACING						
ZONE	FASTENER	SUBSTRATE	WIND SPEED ZONE			
			115	120	130	140
			ON CENTER SPACING	ON CENTER SPACING	ON CENTER SPACING	ON CENTER SPACING
ZONE 1	(2) #14-13	19/32" CDX SEALED	36"	36"	36"	36"
ZONE 2	(2) #14-13	19/32" CDX SEALED	36"	36"	36"	36"
ZONE 3	(2) #14-13	19/32" CDX SEALED	36"	36"	36"	36"

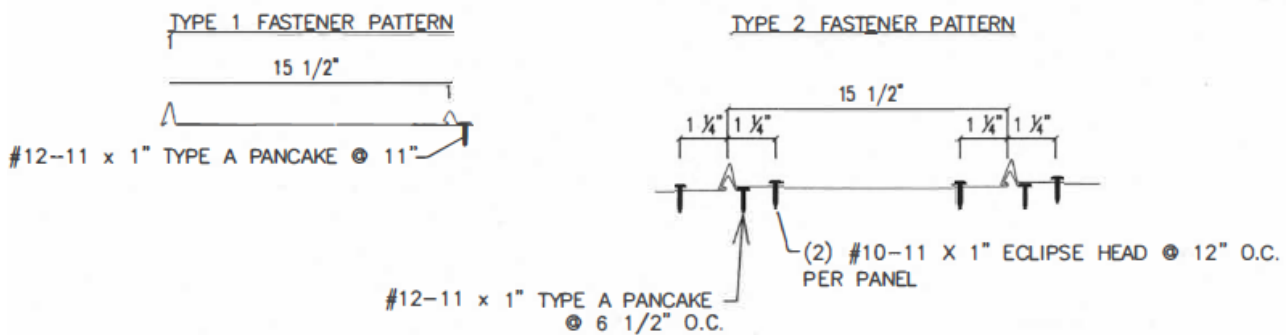


1.5" 24 GA. MECHANICAL LOCK, 16" WIDE, CLIP SPACING							
ZONE	FASTENER	SUBSTRATE	WIND SPEED ZONE				
			140	150	160	170	180
			ON CENTER SPACING	ON CENTER SPACING	ON CENTER SPACING	ON CENTER SPACING	ON CENTER SPACING
ZONE 1	(2) #12-11 x 1"	15/32" CDX PLYWOOD	24"	24"	24"	24"	24"
ZONE 2	(2) #12-11 x 1"	15/32" CDX PLYWOOD	24"	24"	24"	6"	6"
ZONE 3	(2) #12-11 x 1"	15/32" CDX PLYWOOD	6"	6"	6"	6"	6"



FL18525 Mullets Aluminum  
Installation Details

1.5" 24 GA. NAILSTRIP FASTENER SPACING							
ZONE	FASTENER	SUBSTRATE	WIND SPEED ZONE				
			140	150	160	170	180
			ON CENTER SPACING	ON CENTER SPACING	ON CENTER SPACING	ON CENTER SPACING	ON CENTER SPACING
ZONE 1	(1) #12-11 x 1"	15/32" CDX PLYWOOD	11" TYPE 1	11" TYPE 1	11" TYPE 1	11" TYPE 1	11" TYPE 1
ZONE 2	(1) #12-11 x 1"	15/32" CDX PLYWOOD	11" TYPE 1	11" TYPE 1	11" TYPE 1	6 1/2" / 12" TYPE 2	6 1/2" / 12" TYPE 2
ZONE 3	(1) #12-11 x 1"	15/32" CDX PLYWOOD	11" TYPE 1	11" TYPE 1	6 1/2" / 12" TYPE 2	6 1/2" / 12" TYPE 2	6 1/2" / 12" TYPE 2



1.5" 24 GA. SNAP LOCK, 16" WIDE, CLIP SPACING							
ZONE	FASTENER	SUBSTRATE	WIND SPEED ZONE				
			140	150	160	170	180
			ON CENTER SPACING	ON CENTER SPACING	ON CENTER SPACING	ON CENTER SPACING	ON CENTER SPACING
ZONE 1	(2) #12-11 x 1"	15/32" CDX PLYWOOD	24"	24"	24"	24"	24"
ZONE 2	(2) #12-11 x 1"	15/32" CDX PLYWOOD	24"	24"	24"	24"	24"
ZONE 3	(2) #12-11 x 1"	15/32" CDX PLYWOOD	12"	12"	12"	6"	6"

