



Product Approval
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FL #	FL31653-R4	
Application Type	Revision	
Code Version	2023	
Application Status	Approved	
Comments		
Archived	☐	
Product Manufacturer	Metal Alliance Inc.	
Address/Phone/Email	2120 SW Poma Dr. Palm City, FL 34990 (844) 638-2548 orders@metalalliance.com	
Authorized Signature	Tara Faulkner orders@metalalliance.com	
Technical Representative		
Address/Phone/Email		
Quality Assurance Representative		
Address/Phone/Email		
Category	Roofing	
Subcategory	Metal Roofing	
Compliance Method	Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer ☐ Evaluation Report - Hardcopy Received	
Florida Engineer or Architect Name who developed the Evaluation Report	David Eng	
Florida License	PE-81377	
Quality Assurance Entity	Keystone Certifications, Inc.	
Quality Assurance Contract Expiration Date	05/06/2029	
Validated By	James R Wally, PE ☒ Validation Checklist - Hardcopy Received	
Certificate of Independence	FL31653_R4_COI_32AI_150MS_plywood_20in.pdf	
Referenced Standard and Year (of Standard)	<u>Standard</u>	<u>Year</u>
	TAS 100	2023
	TAS 125	2003
	UL 580	2006
Equivalence of Product Standards Certified By		
Sections from the Code		

Product Approval Method

Method 1 Option D

Date Submitted	12/13/2023
Date Validated	12/26/2023
Date Pending FBC Approval	01/02/2024
Date Approved	02/13/2024

Summary of Products

FL #	Model, Number or Name	Description
31653.1	01: 150MS 1.5" Mechanical Seam 032 Aluminum 20" panel	150MS 1.5" mechanical seam panel from nominal 0.032" aluminum or thicker on 15/32" (min) plywood or 3/4" (min) wood plank 20" coverage
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: +N/A/-178 Other: 178psf with clips @ 13", 76psf @ 19"		Installation Instructions FL31653_R4_II_32Al_150MS_plywood_20in_13_19.pdf Verified By: David Eng, PE 81377 Created by Independent Third Party: Yes Evaluation Reports FL31653_R4_AE_32Al_150MS_plywood_20in_13_19.pdf Created by Independent Third Party: Yes
31653.2	02: 150MS 1.5" Mechanical Seam 24ga	150MS 1.5" mechanical seam panel from 24ga (min) on 15/32" (min) plywood or 3/4" (min) wood plank
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: +N/A/-198.5 Other: 198.5 with clips @ 8" oc, 166psf @ 16" oc		Installation Instructions FL31653_R4_II_24ga_150MS_plywood.pdf Verified By: David Eng, PE 81377 Created by Independent Third Party: Yes Evaluation Reports FL31653_R4_AE_24ga_150MS_plywood.pdf Created by Independent Third Party: Yes
31653.3	03: 150MS 1.5" Mechanical Seam 26ga	150MS 1.5" mechanical seam panel from 26ga (min) on 15/32" (min) plywood or 3/4" (min) wood plank
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: +N/A/-218.8 Other: 218.8psf with clips @ 12" oc		Installation Instructions FL31653_R4_II_26ga_150MS_plywood.pdf Verified By: David Eng, PE 81377 Created by Independent Third Party: Yes Evaluation Reports FL31653_R4_AE_26ga_150MS_plywood.pdf Created by Independent Third Party: Yes
31653.4	04: 150MS 1.5" Mechanical Seam 032 Aluminum 20" panel	150MS 1.5" mechanical seam panel from nominal 0.032" aluminum or thicker on 15/32" (min) plywood or 3/4" (min) wood plank 20" coverage
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: +N/A/-198.5 Other: 198.5psf with clips @ 10.5", 156psf @ 13"		Installation Instructions FL31653_R4_II_32Al_150MS_plywood_20in.pdf Verified By: David Eng, PE 81377 Created by Independent Third Party: Yes Evaluation Reports FL31653_R4_AE_32Al_150MS_plywood_20in.pdf Created by Independent Third Party: Yes
31653.5	05: 150MS 1.5" Mechanical Seam 16oz Copper	150MS 1.5" mechanical seam panel from 16oz copper or thicker on 15/32" (min) plywood or 3/4" (min) wood plank
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: +N/A/-198.5 Other: 198.5psf with 3" clip @ 12" oc, 149psf with 2" clip @ 16" oc		Installation Instructions FL31653_R4_II_16ozCu_150MS_plywood.pdf Verified By: David Eng, PE 81377 Created by Independent Third Party: Yes Evaluation Reports FL31653_R4_AE_16ozCu_150MS_plywood.pdf Created by Independent Third Party: Yes
31653.6	06: 200MS 2.0" Mechanical Seam 24ga	200MS 2.0" mechanical seam panel from 24ga (min) on 15/32" (min) plywood or 3/4" (min) wood plank
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: +N/A/-228.5 Other: 228.5psf with clips @ 9", 194.75psf with clips @ 19"		Installation Instructions FL31653_R4_II_24ga_200MS_plywood.pdf Verified By: David Eng, PE 81377 Created by Independent Third Party: Yes Evaluation Reports FL31653_R4_AE_24ga_200MS_plywood.pdf Created by Independent Third Party: Yes

31653.7	07: 200MS 2.0" Mechanical Seam 032 Aluminum	200MS 2.0" mechanical seam panel from nominal 0.032" aluminum or thicker on 15/32" (min) plywood or 3/4" (min) wood plank
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: +N/A/-200 Other: 200psf with clips @ 9" oc, 167psf with clips @ 19" oc		Installation Instructions FL31653_R4_II_32Al_200MS_plywood.pdf Verified By: David Eng, PE 81377 Created by Independent Third Party: Yes Evaluation Reports FL31653_R4_AE_32Al_200MS_plywood.pdf Created by Independent Third Party: Yes
31653.8	08: 150MS 1.5" Mechanical Seam 032 Aluminum	150MS 1.5" mechanical seam panel from nominal 0.032" aluminum or thicker on 15/32" (min) plywood or 3/4" (min) wood plank
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: +N/A/-213.5 Other: 213.5psf with clips @ 8", 138.5psf @ with clips @ 16" oc		Installation Instructions FL31653_R4_II_32Al_150MS_plywood.pdf Verified By: David Eng, PE 81377 Created by Independent Third Party: Yes Evaluation Reports FL31653_R4_AE_32Al_150MS_plywood.pdf Created by Independent Third Party: Yes
31653.9	09: 150MS 1.5" Mechanical Seam 032 Aluminum	150MS 1.5" mechanical seam panel from nominal 0.032" aluminum or thicker on 15/32" (min) plywood or 3/4" (min) wood plank
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: +N/A/-206 Other: 206psf with clips @ 8" oc, 101psf with clips @ 16" oc		Installation Instructions FL31653_R4_II_32Al_150MS_plywood-nonHVHZ.pdf Verified By: David Eng, PE 81377 Created by Independent Third Party: Yes Evaluation Reports FL31653_R4_AE_32Al_150MS_plywood-nonHVHZ.pdf Created by Independent Third Party: Yes
31653.10	10: 150MS 1.5" Mechanical Seam 24ga	150MS 1.5" mechanical seam panel from 24ga (min) on 15/32" (min) plywood or 3/4" (min) wood plank
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: +N/A/-206 Other: 206psf with clips @ 8" oc, 168.5psf with clips @ 16" oc		Installation Instructions FL31653_R4_II_24ga_150MS_plywood-nonHVHZ.pdf Verified By: David Eng, PE 81377 Created by Independent Third Party: Yes Evaluation Reports FL31653_R4_AE_24ga_150MS_plywood-nonHVHZ.pdf Created by Independent Third Party: Yes
31653.11	11: 150MS 1.5" Mechanical Seam 16oz Copper	150MS 1.5" mechanical seam panel from 16oz copper or thicker on 15/32" (min) plywood or 3/4" (min) wood plank
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: +N/A/-159.25 Other: See report for details		Installation Instructions FL31653_R4_II_16ozCu_150MS_plywood im.pdf Verified By: David Eng, PE 81377 Created by Independent Third Party: Yes Evaluation Reports FL31653_R4_AE_16ozCu_150MS_plywood im.pdf Created by Independent Third Party: Yes
31653.12	12: 150MS 1.5" Mechanical Seam 24ga	150MS 1.5" mechanical seam panel from 24ga (min) on 15/32" (min) plywood or 3/4" (min) wood plank
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: +N/A/-189.25 Other: See report for details		Installation Instructions FL31653_R4_II_24ga_150MS_plywood im.pdf Verified By: David Eng, PE 81377 Created by Independent Third Party: Yes Evaluation Reports FL31653_R4_AE_24ga_150MS_plywood im.pdf Created by Independent Third Party: Yes
31653.13	13: 150MS 1.5" Mechanical Seam 032 Aluminum	150MS 1.5" mechanical seam panel from nominal 0.032" aluminum or thicker on 15/32" (min) plywood or 3/4" (min) wood plank
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: +N/A/-159.25 Other: See report for details		Installation Instructions FL31653_R4_II_32Al_150MS_plywood im.pdf Verified By: David Eng, PE 81377 Created by Independent Third Party: Yes Evaluation Reports FL31653_R4_AE_32Al_150MS_plywood im.pdf Created by Independent Third Party: Yes

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Product Approval Accepts:

