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AUTHORIZATION TO MARK

This authorizes the application of the Certification Mark(s) shown below to the models described in the Product(s) Covered section when made in accordance with the conditions set forth in the Certification Agreement and Listing Report(s). This authorization also applies to the Multiple Listee model(s) identified on the correlation page of the Listing Report.

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This document supersedes all previous Authorizations to Mark for the noted Report Number.

Testing Standard(s):	ANSI / SPRI ES-1 (2003), ANSI / SPRI RE-2 (2003), ANSI / SPRI RE-3 (2003), ANSI/SPRI/FM 4435/ES-1 (2011)
Product:	NRCA Edge Systems for Use with Low Slope Roofing Systems

ATM for Report: G3097686, G99030617, 3094049, G103389995 **ATM Issue Date:** 10/2/2018

Listing Section(s): METAL ROOF EDGE FLASHING, FASCIAS & COPING SYSTEMS

CSI Code(s): 07 70 00 Roof and Wall Specialties and Accessories

Description:

PRODUCT DESCRIPTION:

This specification recognizes metal roof edge systems for use with low slope roofing, including metal coping systems and metal roof edge systems that are independently terminated and that have been tested for wind resistance.

The tables below provide general system configurations and tested wind resistance values per the referenced test standards. Table footnotes provide additional system material and fastening requirements.

The tables reference drawing numbers (Example: "C-1") that can be found in the Construction Details of the 2018 NRCA Roofing Manual: Architectural Metal Flashing and Condensation and Air Leakage Control; Chapter 4 - Construction Details, Section 4.3 Index of Construction Details.

The Intertek Certification Mark applied to each metal edge flashing or coping shows the product has been fabricated by a qualified manufacturer who is authorized to apply the Intertek Certification Mark and who is subject to Intertek periodic follow-up inspections of the manufacturing facility.

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COPINGS *(parapet wall copings)*								
Test Standard ANSI/SPRI/ FM 4435 ES-1		Test Method RE-3 *Pull-off Test for Copings*			Assembly Details Materials		Tested Resistance (PSF)	
Item Number / Drawing Number		Max Dimension (in.)						
		Width	Front	Back	Coping	Cleat	Out	Up
1*	C-1/ ITS-1	8	5	3	24 ga¤♦	22 ga¤♦	190	310
2*	C-1/ ITS-2	8	5	3	0.04"AL	0.04"AL	150	250
3*	C-1/ ITS-3	8	5	3	20 oz Cu	24 ga♦	135	220
4*	C-1/ ITS-4	12	5	3	24 ga¤♦	22 ga¤♦	265	440
5*	C-3/ ITS-4B	12	5.6	3.5	24 ga¤♦	22 ga¤♦	214	350
6*	C-1/ ITS-5	12	5	3	22 ga¤♦	20 ga¤♦	175	290
7*	C-1/ ITS-6	12	5	3	0.04"AL	0.04"AL	95	160
8*	C-3/ITS-6B	12	5.6	3.5	0.04"AL	0.05"AL	202	330
9*	C-1/ ITS-7	12	5	3	0.05"AL	0.05"AL	180	300
10*	C-1/ ITS-8	12	5	3	16 oz Cu	24 ga♦	75	125
11**	C-1/ ITS-9	12	5	3	20 oz Cu	24 ga♦	150	250
12**	C-1/ ITS-10	18	5	3	24 ga¤♦	22 ga¤♦	145	240
13**	C-1/ ITS-11	18	5	3	0.04"AL	0.05"AL	145	240
14**	C-1/ ITS-12	24	5	3	24 ga¤♦	22 ga¤♦	90	150

15**	C-1/ ITS-13	24	5	3	0.05"AL	0.063"AL	120	220

¤ G90 Galvanized, ♦ Stainless steel, AL = Aluminum, Cu = Copper

* Front face coping cleat fastened to substrate dimensional wood nailer with 1 ¼" long galvanized steel roofing nails 6" on center located 1-3/4" up from bottom flat portion of cleat. Back side of coping fastened directly to dimensional wood substrate with 1-1/2" long galvanized Steel Hex Head Screw with washer 18" on center located 1 inch below top of coping (see NRCA/ITS system drawings). Note: Item 5. and Item 8. Have additional fastener for top cleat attachment with 1 ¼" galvanized steel nail 12 inches on center (drawings ITS-4B and ITS6B)

** Both front and back coping cleats are fastened with 1-1/4" long galvanized steel roofing nails 6" on center. Front cleat fastened 1-3/4" up from bottom flat portion of cleat. Back side cleat fastened ½" up from bottom flat portion of cleat (see NRCA/ITS System drawings)

COPINGS - Flat Front Face *(parapet wall copings)*								
Test Standard ANSI/SPRI/ FM 4435 ES-1		Test Method RE-3 *Pull-off Test for Copings*			Assembly Details Materials		Tested Resistance (PSF)	
Item Number / Drawing Number		Max Dimension (in.)						
		Width	Front	Back	Coping	Cleat	Out	Up
16	C-6/ ITS-14	12	5	3	24 ga¤♦	22 ga¤♦	235	390
17	C-6 / ITS-15	12	5	3	0.04"AL	0.04"AL	225	400
18	C-6 / ITS-16	18	5	3	24 ga¤♦	22 ga♦	150	250
19	C-6 / ITS-17	18	5	3	0.04"AL	0.05"AL	170	280
20	C-6 / ITS-18	24	5	3	24 ga¤♦	22 ga¤♦	95	160
21	C-6 / ITS-19	24	5	3	0.05"AL	0.063"AL	90	150

¤ G90 Galvanized, ♦ Stainless steel, AL= Aluminum

Front face coping cleat fastened to substrate dimensional wood nailer with 1 ¼" long galvanized steel roofing nails 6" on center located 1-3/4" up from bottom of cleat. Back side of coping fastened directly to dimensional wood substrate with 1-1/2" long galvanized Steel Hex Head Screw with washer 18" on center located 1 inch below top of coping (see NRCA/ITS system drawings).

Raised Perimeter Edge Fascia *(fascia cap flashings)*				
Test Standard ANSI/SPRI/ FM 4435 ES-1	Test Method RE-2	Assembly Details Materials		Tested Resistance (PSF)
Item Number / Drawing Number	Max Face Dimension (in.)	Flashing	Cleat	

22	FC-1 / ITS-20	8	24 ga¤♦	22 ga¤♦	170
23	FC-1 / ITS-21	8	0.04" AL	0.04" AL	140
24	FC-1 / ITS-22	8	0.04" AL	0.05" AL	230
25	FC-3 / ITS-23	8	24 ga¤♦	22 ga¤♦	250
26	C-6 / ITS- 24	8	0.04" AL	0.04" AL	330

¤ G90 Galvanized, ♦ Stainless steel, AL = Aluminum

Fascia face cleat fastened to substrate dimensional wood nailer with 1 ¼" long galvanized steel roofing nails 6" on center located 1-3/4" up from bottom of cleat. Top side fastened directly to dimensional wood substrate with 1-1/2" long galvanized Steel Hex Head Screw with washer 18" on center located 1- ¾" below top. (see NRCA/ITS system drawings).

Embedded Edge (A-Type) *(fascia flashings)*					
Test Standard ANSI/SPRI/ FM 4435 ES-1		Test Method RE-2	Assembly Details Materials		Tested Resistance (PSF)
Item Number / Drawing Number		Max Face Dimension (in.)	Flashing	Cleat	
27	EE-1 / ITS-25	8	24 ga¤♦	22 ga¤♦	210
28	EE-1 / ITS-26	8	0.04" AL	0.04" AL	230
29	EE-1 / ITS-27	8	0.04" AL	0.05" AL	200

¤ G90 Galvanized, ♦ Stainless steel, AL =Aluminum

Fascia face cleat fastened to substrate dimensional wood nailer with 1-¼" long galvanized steel roofing nails 6" on center located 1-3/4" up from bottom of cleat. Top side fastened directly to dimensional wood substrate with 1-1/4" long galvanized steel roofing nails 3"on center in two rows ½ " apart and 1" from edge. (see NRCA/ITS system drawings).

Embedded Edge (A-Type) With Flat Drip Face *(fascia flashings)*					
Test Standard ANSI/SPRI/ FM 4435 ES-1		Test Method RE-2	Assembly Details Materials		Tested Resistance (PSF)
Item Number / Drawing Number		Max Face Dimension (in.)	Flashing	Cleat	
30	EE-3 / ITS-28	8	24 ga¤♦	22 ga¤♦	390
31	EE-3 / ITS-29	8	0.04" AL	0.04" AL	390

¤ G90 Galvanized, ♦ Stainless steel, AL = Aluminum

Fascia face cleat fastened to substrate dimensional wood nailer with 1-¼" long galvanized steel roofing nails 6" on center located 1-3/4" up from bottom of cleat. Top side fastened directly to dimensional wood substrate with

1-1/4" long galvanized steel roofing nails 3" on center in two rows ½ " apart and 1" from edge. (see NRCA/ITS system drawings).

Embedded Edge (L-Type) *(fascia flashings)*					
Test Standard ANSI/SPRI/ FM 4435 ES-1		Test Method RE-2	Assembly Details Materials		Tested Resistance (PSF)
Item Number / Drawing Number		Max Face Dimension (in.)	Flashing	Cleat	
32	EE-5 / ITS-30	8	24 ga¤♦	22 ga¤♦	210
33	EE-5 / ITS-31	8	0.04" AL	0.04" AL	230
34	EE-5 / ITS-32	12	24 ga¤♦	**20 ga¤♦**	125
35	EE-5 / ITS-33	12	0.05" AL	0.063" AL	190

¤ G90 Galvanized, ♦ Stainless steel, AL = Aluminum

Fascia face cleat fastened to substrate dimensional wood nailer with 1 ¼" long galvanized steel roofing nails 6" on center located 1-3/4" up from bottom of cleat. Top side fastened directly to dimensional wood substrate with 1-1/4" long galvanized steel roofing nails 3" on center in two rows ½ " apart and 1" from edge. (see NRCA/ITS system drawings).

Raised Perimeter Edge Fascia *(fascia flashings)*					
Test Standard ANSI/SPRI/ FM 4435 ES-1		Test Method RE-2	Assembly Details Materials		Tested Resistance (PSF)
Item Number / Drawing Number		Max Face Dimension (in.)	Flashing	Cleat	
36	FC-1 / ITS-36	8	24 ga¤♦	22 ga¤♦	190
37	FC-1 / ITS-37	8	0.04" AL	0.05" AL	200

¤ G90 Galvanized, ♦ Stainless steel, AL = Aluminum

Both front and top of one piece cleat is fastened with 1-1/4" long galvanized steel roofing nails 6” on center. Front cleat is fastened 1-3/4” up from bottom flat portion of cleat. Back side cleat is fastened in center of 1-3/4” top flange (see NRCA/ITS System drawings)

Face Extender					
Test Standard ANSI/SPRI/ FM 4435 ES-1		Test Method RE-2	Assembly Details Materials		Tested Resistance (PSF)
Item Number / Drawing Number		Max Face Dimension (in.)	Flashing	Cleat	

38	ITS-34	8	24 ga¤♦	22 ga¤♦	210
39	ITS-35	8	0.04" AL	0.05" AL	220

¤ G90 Galvanized, ♦ Stainless steel, AL = Aluminum

Bottom Face Extender cleat is fastened with 1-1/4" long galvanized steel roofing nails 6” on center. Cleat is fastened 1-3/4” up from bottom flat portion of cleat. Top of Face Extender is directly fastened to substrate with 1-1/4" long galvanized steel roofing nails 12” on center. Fasteners are located 3/4" down from top of extender. (see NRCA/ITS System drawings). NOTE: Top fastener requirement is in addition to any system cleat fastener required by roof edge metal system above.

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