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FORTRESS BUILDING PRODUCTS
TEST REPORT

SCOPE OF WORK
STRUCTURAL PERFORMANCE TESTING ON THE *AL13*, *AL13 HOME* AND *FE26* STRUCTURAL POSTS SUPPORTED BY VARIOUS *FE26* BRACKETS

REPORT NUMBER
N9652.01-119-16 R0

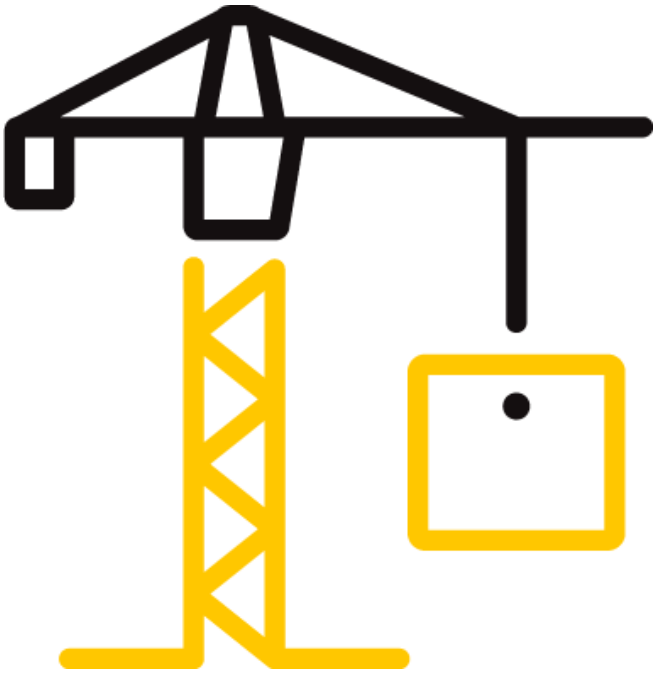
TEST DATES
07/25/22 - 07/26/22

ISSUE DATE
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TEST REPORT FOR FORTRESS BUILDING PRODUCTS
Report No.: N9652.01-119-16 R0
Date: 10/14/22

REPORT ISSUED TO
FORTRESS BUILDING PRODUCTS
1720 North First Street
Suite B
Garland, TX 75040

SECTION 1
SCOPE

Architectural Testing, Inc. (an Intertek company) dba Intertek Building & Construction (B&C) was contracted by Fortress Building Products to perform structural performance testing on their *AL13*, *AL13 Home* and *Fe26* structural posts supported by *Fe26* brackets. Results obtained are tested values and were secured by using the designated test methods. Testing was conducted at the Intertek B&C test facility in York, Pennsylvania.

Intertek B&C in York, Pennsylvania has demonstrated compliance with ISO/IEC International Standard 17025 and is consequently accredited as a Testing Laboratory (TL-144) by International Accreditation Service, Inc. (IAS).

This report does not constitute certification of this product nor an opinion or endorsement by this laboratory. Unless differently required, Intertek reports apply the "Simple Acceptance" rule, also called "Shared Risk approach," of ILAC-G8:09/2019, Guidelines on Decision Rules and Statements of Conformity. Intertek will service this report for the entire test record retention period. The test record retention period ends four years after the test date. Test records, such as detailed drawings, datasheets, representative samples of test specimens, or other pertinent project documentation, will be retained for the entire test record retention period.

For INTERTEK B&C:

COMPLETED BY:	Adam J. Schrum	**REVIEWED BY:**	V. Thomas Mickley, Jr., P.E.
TITLE:	Project Manager	**TITLE:**	Senior Staff Engineer
SIGNATURE:	Digitally Signed by: Adam J. Schrum	**SIGNATURE:**	Digitally Signed by: Virgal Thomas Mickley, Jr.
DATE:	10/14/22	**DATE:**	10/14/22

AJS:vtm/aas

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SECTION 2
TEST METHODS

The specimens were evaluated in accordance with the following:

2021, *International Building Code®*, International Code Council

2021, *International Residential Code®*, International Code Council

2020, *National Building Code of Canada*

2017, *Ontario Building Code*

2018, *British Columbia Building Code*

2019, *Alberta Building Code*

Structural tests were performed according to Chapter 17 (Structural Tests and Special Inspections) of IBC 2021.

Limitations
All tests performed were to evaluate structural performance of the post mount assembly to carry and transfer imposed loads to the supporting structure. Anchorage of support posts to the supporting structure is not included in the scope of this testing and would need to be evaluated separately. Evaluation of the substructure design is not included in this testing.

SECTION 3
MATERIAL SOURCE/INSTALLATION

Test samples were provided by the client.

Representative samples of the test specimens will be retained by Intertek B&C for a minimum of four years from the test completion date.

The bracket was directly secured onto the surface of a rigid steel fixture (to simulate anchorage into concrete). Transducers mounted to an independent reference frame were located to record movement of reference point on the post mount system (top of post) to determine component deflections. See photographs in Section 10 for individual test setups.

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SECTION 4
EQUIPMENT

The post mounts were tested in a self-contained structural frame designed to accommodate anchorage and application of the required test loads. The specimens were loaded using an electric winch mounted to a rigid steel test frame. High strength steel cables and nylon straps were used to impose test loads on the specimens. Applied load was measured using an electronic load cell located in-line with the loading system. Electronic linear motion transducers were used to measure deflections.

SECTION 5
LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Adam J. Schrum	Intertek B&C
Scott A. McMaster	Intertek B&C

SECTION 6
TEST PROCEDURE

Each test specimen was inspected prior to testing to verify size and general condition of the materials, assembly, and installation. No potentially compromising defects were observed prior to testing.

The fascia post mount assemblies were installed and tested as a single post section by directly securing the fascia mount bracket to a rigid steel test frame. The post mount assemblies were assembled by an Intertek B&C technician. Transducers mounted to an independent reference frame were located to record movement of reference points on the post mount system (point of loading) to determine component deflections. See photographs in Section 10 for test setups.

One specimen was used for each load test which were performed in the order reported. Each design load test was performed using the following procedure:

1. Zeroed transducers and load cell at zero load;
2. Increased load to specified test load in no less than ten seconds; and
3. Increased load until failure occurred.

All loads and displacement measurements were horizontal, unless noted otherwise.

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SECTION 7
TEST SPECIMEN DESCRIPTION

Fortress Building Products provided the test specimens with the following details:

FASCIA MOUNT BRACKETS	*Fe26* 2 in In-line/Straight Bracket: See drawings in Section 11
	Fe26 3 in In-line/Straight Bracket: See drawings in Section 11
	Fe26 2 in Outside Corner Bracket: See drawings in Section 11
	Fe26 3 in Outside Corner Bracket: See drawings in Section 11
	Fe26 2 in Inside Corner Bracket: See drawings in Section 11
	Fe26 3 in Inside Corner Bracket: See drawings in Section 11
POSTS	*AL13*: 3 in square by 0.160 in thick aluminum post with raceway channels in each corner
	AL13 Home: 3 in square by 0.125 in thick aluminum post
	AL13 Home: 2 in square by 0.125 in thick aluminum post
	Fe26: 2 in square by 0.100 in thick steel post
	Fe26: 3 in square by 0.075 in thick steel post
FASTENERS	M6-1.75 by 24mm self-drilling, hex-head screws (four in each inside and outside corner bracket and two in each in-line/straight bracket attaching the bracket to the post)
	3/8 in Gr. 5 bolts with nut and washers (four in each in-line bracket and inside corner bracket to substructure; eight in each outside corner bracket to substructure)

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SECTION 8
TEST RESULTS

Key to Test Results Tables:

Load Level: Target test load

Test Load: Actual applied load at the designated load level (target).

Elapsed Time (E.T.): The amount of time into the test with zero established at the beginning of the loading procedure.

Test Series No. 1
***Fe26* Outside Corner Fascia Mount Bracket**

Test No. 1 - Test Date: 07/25/22
Concentrated Load at Top of 3 in *Al13 Plus* Post Mount (42 in High) to Failure

LOAD LEVEL	TEST LOAD (lb)	E.T. (min:sec)	DISPLACEMENT (in)
200 lb (D.L.)	200	00:28	0.92
Ultimate Load	1257	01:42	**Result**: Post Buckled at base

Test No. 2 - Test Date: 07/25/22
Concentrated Load at Top of 3 in *Al13 Home* Post Mount (42 in High) to Failure

LOAD LEVEL	TEST LOAD (lb)	E.T. (min:sec)	DISPLACEMENT (in)
200 lb (D.L.)	203	00:10	0.87
Ultimate Load	931	01:00	**Result**: Post Buckled at base

Test No. 3 - Test Date: 07/25/22
Concentrated Load at Top of 3 in *Fe26* Post Mount (42 in High) to Failure

LOAD LEVEL	TEST LOAD (lb)	E.T. (min:sec)	DISPLACEMENT (in)
200 lb (D.L.)	201	00:24	1.60
Ultimate Load	1033	01:15	**Result**: Post Buckled at base

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Test No. 4 - Test Date: 07/25/22
Concentrated Load at Top of 2 in *Al13 Home* Post Mount (42 in High) to Failure

LOAD LEVEL	TEST LOAD (lb)	E.T. (min:sec)	DISPLACEMENT (in)
200 lb (D.L.)	201	00:26	1.79
Ultimate Load	419	01:43	**Result**: Post Buckled at base

Test No. 5 - Test Date: 07/25/22
Concentrated Load at Top of 2 in *Fe26* Post Mount (42 in High) to Failure

LOAD LEVEL	TEST LOAD (lb)	E.T. (min:sec)	DISPLACEMENT (in)
200 lb (D.L.)	201	00:35	2.04
Ultimate Load	690	01:40	**Result**: Post Buckled at base

Test Series No. 2
***Fe26* In-Line/Straight Fascia Mount Bracket**

Test No. 1 - Test Date: 07/26/22
Concentrated Load at Top of 3 in *Al13 Plus* Post Mount (42 in High) to Failure

LOAD LEVEL	TEST LOAD (lb)	E.T. (min:sec)	DISPLACEMENT (in)
200 lb (D.L.)	202	00:27	0.80
Ultimate Load	994	02:29	**Result**: Post Buckled at base

Test No. 2 - Test Date: 07/26/22
Concentrated Load at Top of 3 in *Al13 Home* Post Mount (42 in High) to Failure

LOAD LEVEL	TEST LOAD (lb)	E.T. (min:sec)	DISPLACEMENT (in)
200 lb (D.L.)	201	00:23	0.87
Ultimate Load	877	01:38	**Result**: Post Buckled at base

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Test No. 3 - Test Date: 07/26/22
Concentrated Load at Top of 3 in *Fe26* Post Mount (42 in High) to Failure

LOAD LEVEL	TEST LOAD (lb)	E.T. (min:sec)	DISPLACEMENT (in)
200 lb (D.L.)	201	00:19	1.10
Ultimate Load	969	01:24	**Result**: Post Buckled at base

Test No. 4 - Test Date: 07/26/22
Concentrated Load at Top of 2 in *Al13 Home* Post Mount (42 in High) to Failure

LOAD LEVEL	TEST LOAD (lb)	E.T. (min:sec)	DISPLACEMENT (in)
200 lb (D.L.)	202	00:19	1.73
Ultimate Load	398	01:15	**Result**: Post Buckled at base

Test No. 5 - Test Date: 07/26/22
Concentrated Load at Top of 2 in *Fe26* Post Mount (42 in High) to Failure

LOAD LEVEL	TEST LOAD (lb)	E.T. (min:sec)	DISPLACEMENT (in)
200 lb (D.L.)	201	00:34	1.67
Ultimate Load	681	01:34	**Result**: Post Buckled at base

Test Series No. 3
***Fe26* Inside Corner Fascia Mount Bracket**

Test No. 1 - Test Date: 07/26/22
Concentrated Load at Top of 3 in *Al13 Plus* Post Mount (42 in High) to Failure

LOAD LEVEL	TEST LOAD (lb)	E.T. (min:sec)	DISPLACEMENT (in)
200 lb (D.L.)	200	00:22	0.87
Ultimate Load	1327	01:53	**Result**: Post Buckled at base

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Test No. 2 - Test Date: 07/26/22
Concentrated Load at Top of 3 in *Al13 Home* Post Mount (42 in High) to Failure

LOAD LEVEL	TEST LOAD (lb)	E.T. (min:sec)	DISPLACEMENT (in)
200 lb (D.L.)	200	00:28	1.61
Ultimate Load	853	01:17	**Result**: Post Buckled at base

Test No. 3 - Test Date: 07/26/22
Concentrated Load at Top of 3 in *Fe26* Post Mount (42 in High) to Failure

LOAD LEVEL	TEST LOAD (lb)	E.T. (min:sec)	DISPLACEMENT (in)
200 lb (D.L.)	200	00:29	2.23
Ultimate Load	1014	01:00	**Result**: Post Buckled at base

Test No. 4 - Test Date: 07/26/22
Concentrated Load at Top of 2 in *Al13 Home* Post Mount (42 in High) to Failure

LOAD LEVEL	TEST LOAD (lb)	E.T. (min:sec)	DISPLACEMENT (in)
200 lb (D.L.)	201	00:26	2.60
Ultimate Load	328	01:07	**Result**: Post Buckled at base

Test No. 5 - Test Date: 07/26/22
Concentrated Load at Top of 2 in *Fe26* Post Mount (42 in High) to Failure

LOAD LEVEL	TEST LOAD (lb)	E.T. (min:sec)	DISPLACEMENT (in)
200 lb (D.L.)	200	00:23	1.76
Ultimate Load	801	01:27	**Result**: Post Buckled at base

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SECTION 9
CONCLUSION

The post and bracket assemblies reported herein (except for the 2 in *Al13 Home*) meet the structural performance requirements for One- and Two-Family Dwellings (IRC).

The post mount assemblies reported herein (except for the 2 in *Al13 Home*) also meet the structural performance requirements for All Use Groups (IBC) for the allowable post spacings stipulated in the following table:

BRACKET TYPE	POST MOUNT [4]	IRC ONE- and TWO-FAMILY DWELLINGS [3]	IBC ALL USE GROUPS
			ALLOWABLE CENTER-TO-CENTER POST SPACING [1, 2]
Fe26 **Outside Corner Fascia Mount Bracket**	3 in *Al13 Plus*	Meets the requirements	10 ft - 1/2 in
	3 in *Al13 Home*	Meets the requirements	7 ft - 5 in
	3 in *Fe26*	Meets the requirements	8 ft - 3 in
	2 in *Al13 Home*	**Does not meet the requirements**	
	2 in *Fe26*	Meets the requirements	5 ft - 6 in
Fe26 **In-Line/Straight Fascia Mount Bracket**	3 in *Al13 Plus*	Meets the requirements	7 ft - 11 in
	3 in *Al13 Home*	Meets the requirements	7 ft - 0 in
	3 in *Fe26*	Meets the requirements	7 ft - 9 in
	2 in *Al13 Home*	**Does not meet the requirements**	
	2 in *Fe26*	Meets the requirements	5 ft - 5 in
Fe26 **Inside Corner Fascia Mount Bracket**	3 in *Al13 Plus*	Meets the requirements	10 ft - 7 in
	3 in *Al13 Home*	Meets the requirements	6 ft - 9-1/2 in
	3 in *Fe26*	Meets the requirements	8 ft - 1 in
	2 in *Al13 Home*	**Does not meet the requirements**	
	2 in *Fe26*	Meets the requirements	6 ft - 4-1/2 in

[1] Allowable post spacing (center-to-center of post) = Ultimate load / (50 plf x 2.5 safety factor).
[2] Center-to-center spacing is based on post strength only. Allowable post spacing shall not exceed the lesser of the noted center-to-center post spacing or the allowable length of the guardrail to which it is attached.
[3] Withstand load equal to or greater than 200 lbs (Design Load) x 2.5 (safety factor) = 500 lbs.
[4] Maximum guardrail height for both IRC and IBC applications is 42 in; post mounts reported herein have not been evaluated for guardrail heights more than 42 in.

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Post and bracket assemblies reported herein (except for the 2 in *Al13 Home*) are capable of supporting the live loads specified in the NBCC, OBC, BCBC and ABC for the allowable post spacings stipulated in the following tables:

Application: Guards Serving Not More than 2 Dwelling Units [6]

BRACKET TYPE	POST MOUNT [4]	REQUIREMENTS [5]	
		CONCENTRATED LOAD [3]	UNIFORM LOAD [1, 2] ALLOWABLE CENTER-TO-CENTER POST SPACING
***Fe26* Outside Corner Fascia Mount Bracket**	3 in *Al13 Plus*	Meets the requirements	14 ft - 8 in
	3 in *Al13 Home*	Meets the requirements	10 ft - 10 in
	3 in *Fe26*	Meets the requirements	12 ft - 1/2 in
	2 in *Al13 Home*	**Does not meet the requirements**	
	2 in *Fe26*	Meets the requirements	8 ft - 1/2 in
***Fe26* In-Line/Straight Fascia Mount Bracket**	3 in *Al13 Plus*	Meets the requirements	11 ft - 7 in
	3 in *Al13 Home*	Meets the requirements	10 ft - 2-1/2 in
	3 in *Fe26*	Meets the requirements	11 ft - 3-1/2 in
	2 in *Al13 Home*	**Does not meet the requirements**	
	2 in *Fe26*	Meets the requirements	7 ft - 11 in
***Fe26* Inside Corner Fascia Mount Bracket**	3 in *Al13 Plus*	Meets the requirements	15 ft - 5-1/2 in
	3 in *Al13 Home*	Meets the requirements	9 ft - 11-1/2 in
	3 in *Fe26*	Meets the requirements	11 ft - 10 in
	2 in *Al13 Home*	**Does not meet the requirements**	
	2 in *Fe26*	Meets the requirements	9 ft - 4 in

[1] Allowable post spacing (center-to-center of post) = Ultimate load / (34.26 plf x 2.5 safety factor).
[2] Center-to-center spacing is based on post strength only. Allowable post spacing shall not exceed the lesser of the noted center-to-center post spacing or the allowable length of the guardrail to which it is attached.
[3] Withstand load equal to or greater than 225 lbs (Design Load) x 2.5 (safety factor) = 563 lbs.
[4] Maximum guardrail height is 42 in; post mounts reported herein have not been evaluated for guardrail heights more than 42 in.
[5] Requirements are based on the design load and a 2.5 safety factor. The Authority Having Jurisdiction (AHJ) shall determine if the safety factor is adequate for the product and material type.
[6] Loads were applied in the outward direction only.

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Application: All Other Guards [6]

BRACKET TYPE	POST MOUNT [4]	REQUIREMENTS [5]	
		CONCENTRATED LOAD [3]	UNIFORM LOAD [1, 2]
			ALLOWABLE CENTER-TO-CENTER POST SPACING
Fe26 **Outside Corner Fascia Mount Bracket**	3 in *Al13 Plus*	Meets the requirements	9 ft - 9 in
	3 in *Al13 Home*	Meets the requirements	7 ft - 2-1/2 in
	3 in *Fe26*	Meets the requirements	8 ft - 0 in
	2 in *Al13 Home*	**Does not meet the requirements**	
	2 in *Fe26*	Meets the requirements	5 ft - 4 in
Fe26 **In-Line/Straight Fascia Mount Bracket**	3 in *Al13 Plus*	Meets the requirements	6 ft - 9-1/2 in
	3 in *Al13 Home*	Meets the requirements	7 ft - 8-1/2 in
	3 in *Fe26*	Meets the requirements	7 ft - 6-1/2 in
	2 in *Al13 Home*	**Does not meet the requirements**	
	2 in *Fe26*	Meets the requirements	5 ft - 3-1/2 in
Fe26 **Inside Corner Fascia Mount Bracket**	3 in *Al13 Plus*	Meets the requirements	10 ft - 3-1/2 in
	3 in *Al13 Home*	Meets the requirements	6 ft - 7-1/2 in
	3 in *Fe26*	Meets the requirements	7 ft - 10-1/2 in
	2 in *Al13 Home*	**Does not meet the requirements**	
	2 in *Fe26*	Meets the requirements	6 ft - 2-1/2 in

[1] Allowable post spacing (center-to-center of post) = Ultimate load / (51.39 plf x 2.5 safety factor).
[2] Center-to-center spacing is based on post strength only. Allowable post spacing shall not exceed the lesser of the noted center-to-center post spacing or the allowable length of the guardrail to which it is attached.
[3] Withstand load equal to or greater than 225 lbs (Design Load) x 2.5 (safety factor) = 563 lbs.
[4] Maximum guardrail height is 42 in; post mounts reported herein have not been evaluated for guardrail heights more than 42 in.
[5] Requirements are based on the design load and a 2.5 safety factor. The Authority Having Jurisdiction (AHJ) shall determine if the safety factor is adequate for the product and material type.
[6] Loads were applied in the outward direction only.

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SECTION 10
PHOTOGRAPHS



Photo No. 1
Typical Concentrated Load at Top of Post Mount Test Setup

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Photo No. 2
Outside Corner Fascia Mount Bracket

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Photo No. 3
In-Line/Straight Fascia Mount Bracket



Photo No. 4
Inside Corner Fascia Mount Bracket

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Photo No. 5
Typical Buckling Failure



Photo No. 6
Typical Buckling Failure

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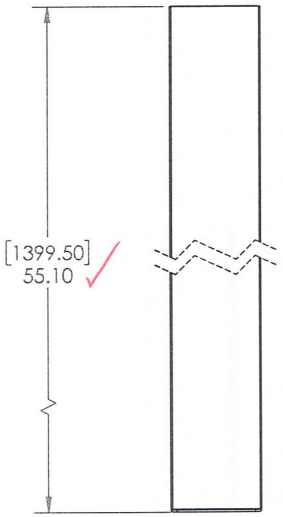
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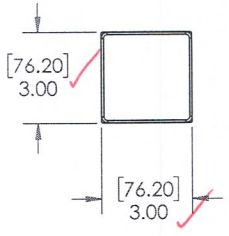
SECTION 11
DRAWINGS

The "As-Built" drawings for the support posts and brackets which follow have been reviewed by Intertek B&C and are representative of the project reported herein. Project construction was verified by Intertek B&C per the drawings included in this report. Any deviations are documented herein or on the drawings.

TITLE: AL13 HOME POST 3" X 55" ASSEMBLY

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	R3935-09060	AL13 HOME POST 3" X 55" (FASCIA)	1
2	R5038-00929	3" FE26 NYLON POST CAP	1



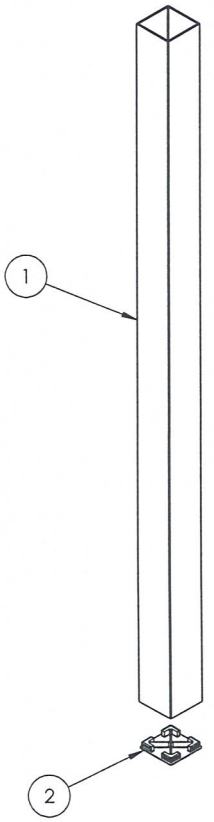


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Test sample complies with these details.
Deviations are noted.

Report # N9652-01-119-16

Date 10/14/22 Tech AJS



SCALE: 1:8

GENERAL NOTES:
1. ALL DIMENSIONS ARE SHOWN IN INCHES [mm]
2. ALL DIMENSIONS ARE BEFORE ANY FINISHING OR COATING
3. ALL DIMENSIONS ARE ± 0.5mm (UNLESS OTHERWISE NOTED)
4. SEE PRODUCT LINE NOTES PAGE
5. MATERIAL: NOTED ON INDIVIDUAL COMPONENTS
6. WEIGHT: 7.38 LBM
7. WARRANTY: LIFETIME

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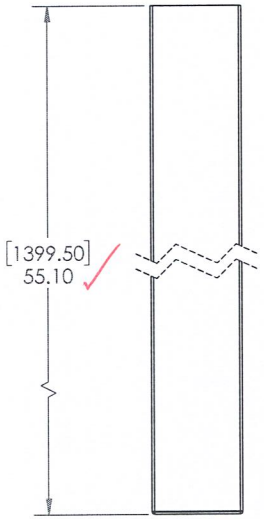
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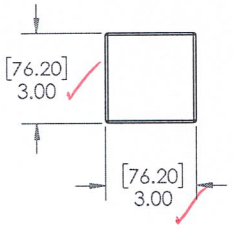
REV	DATE	BY	DESCRIPTION
1	5/27/20	KC	Initial Drawing

DESCRIPTION: AL13 HOME POST 3" X 55" ASSEMBLY
DRAWN BY: KurtC
DATE: 5/27/2020
DIVISION: Fortress Railing
SCALE: 1:4
ITEM #: 5935503X
FILE NAME/PART #: R3935-10849
REV: 1

TITLE: AL13 POST 3" X 55" ASSEMBLY

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	R3235-08123 55"	AL13 POST 3" X 55" (FASCIA)	1
2	R5038-10688	ALUMINUM NYLON POST CAP 3"	1



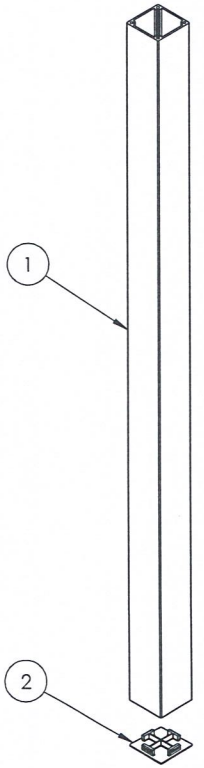


intertek

Test sample complies with these details.
Deviations are noted.

Report # N9652.01-119-16

Date 10/14/22 Tech AJS



GENERAL NOTES:
1. ALL DIMENSIONS ARE SHOWN IN INCHES [mm]
2. ALL DIMENSIONS ARE BEFORE ANY FINISHING OR COATING
3. ALL DIMENSIONS ARE± 0.5mm (UNLESS OTHERWISE NOTED)
4. SEE PRODUCT LINE NOTES PAGE
5. MATERIAL: Material <not specified>
6. WEIGHT: 10.94 LBM
7. WARRANTY: LIFETIME

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Fortress Iron, LP
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FORTRESS BUILDING PRODUCTS

REV	DATE	BY	DESCRIPTION
1	5/27/20	KC	Initial Drawing

DESCRIPTION: AL13 POST 3" X 55" ASSEMBLY
DRAWN BY: KurtC
SCALE: 1:4
DATE: 5/27/2020
DIVISION: Fortress Railing
Sheet: 1 OF 1
ITEM #: 5135502X
FILE NAME/PART #: R3935-10846
REV: 1

TITLE: AL13 HOME 2"X55" FASCIA POST

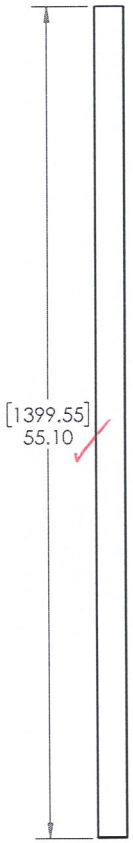
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	R3935-09054	AL13 HOME POST 2" X 55" (FASCIA)	1
2	R5038-10686	ALUMINUM NYLON POST CAP 2"	1

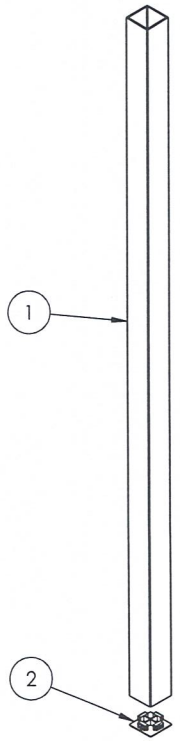
intertek

Test sample complies with these details.
Deviations are noted.

Report # N9652.01-119-16

Date 10/14/22 Tech AJS





GENERAL NOTES:
1. ALL DIMENSIONS ARE SHOWN IN INCHES [mm]
2. ALL DIMENSIONS ARE BEFORE ANY FINISHING OR COATING
3. ALL DIMENSIONS ARE ± 0.5mm (UNLESS OTHERWISE NOTED)
4. SEE PRODUCT LINE NOTES PAGE R3900-00001
5. MATERIAL: NOTED IN INDIVIDUAL DRAWINGS
6. WEIGHT: 4.80 LBM
7. WARRANTY: LIMITED LIFETIME

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FORTRESS BUILDING PRODUCTS

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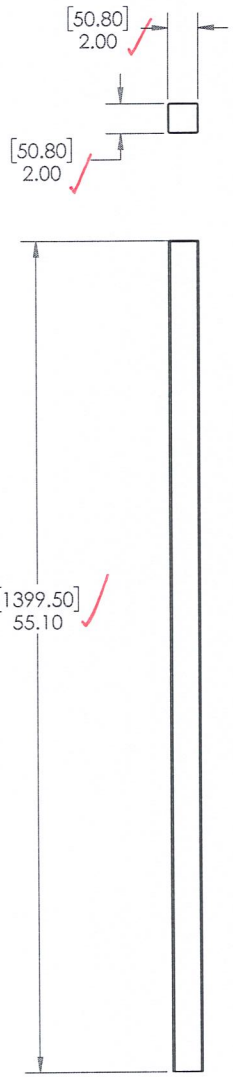
Sheet: 1 OF 1

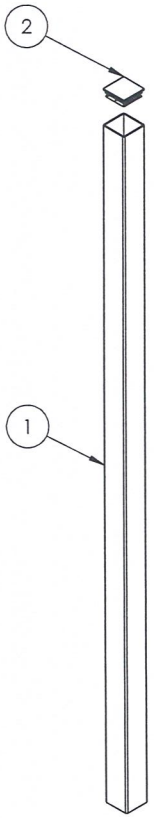
REV	DATE	BY	DESCRIPTION
	11/29/21	ECT	Initial Drawing

DESCRIPTION: AL13 HOME 2"X55" FASCIA POST
DRAWN BY: evant
DATE: 11/29/2021 DIVISION: Fortress Railing
SCALE: 1:8
ITEM #: 5935502X
FILE NAME/PART #: R3935-12434
REV:

TITLE: FE26 POST 2"X55" (13 GA)

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	R3135-00960 55"	FE26-POST 2"X55" (13GA)	1
2	R5038-00919	2" FE26 NYLON POST CAP	1





intertek

Test sample complies with these details.
Deviations are noted.

Report # N9652.01-119-16

Date 10/14/22 Tech AJS

GENERAL NOTES:
1. ALL DIMENSIONS ARE SHOWN IN INCHES [mm]
2. ALL DIMENSIONS ARE BEFORE ANY FINISHING OR COATING
3. ALL DIMENSIONS ARE ± 0.5mm (UNLESS OTHERWISE NOTED)
4. SEE PRODUCT LINE NOTES PAGE R3100-00001
5. MATERIAL: NOTED IN INDIVIDUAL DRAWINGS
6. WEIGHT: 10.75 LBM
7. WARRANTY: 15 YEARS

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FORTRESS BUILDING PRODUCTS
Fortress Iron, LP
1720 N 1st Street
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THIRD ANGLE

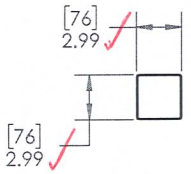
Sheet: 1 OF 1

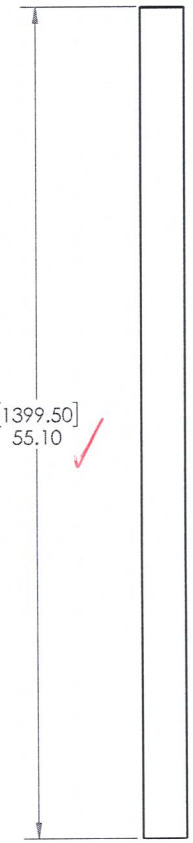
REV	DATE	BY	DESCRIPTION
A	5/19/22	JH	REMOVE POST CAP

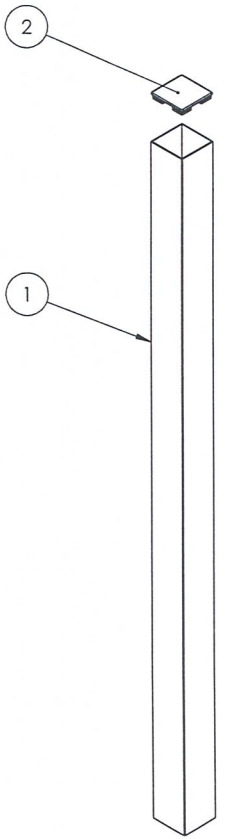
DESCRIPTION: FE26 POST 2"X55" (13 GA)
DRAWN BY: evant
DATE: 11/16/2021
DIVISION: Fortress Railing
SCALE: 1:8
ITEM #: 5335515X
FILE NAME/PART #: R3135-12425
REV: A

TITLE: FE26 POST 3"X55"

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	R3135-00963 55"	FE26 POST 3"X55"	1
2	R5038-00929	3" FE26 NYLON POST CAP	1







intertek

Test sample complies with these details.
Deviations are noted.

Report # N9652.01-119-16

Date 10/14/22 Tech AJS

GENERAL NOTES:
1. ALL DIMENSIONS ARE SHOWN IN INCHES [mm]
2. ALL DIMENSIONS ARE BEFORE ANY FINISHING OR COATING
3. ALL DIMENSIONS ARE ± 0.5mm (UNLESS OTHERWISE NOTED)
4. SEE PRODUCT LINE NOTES PAGE R3100-00001
5. MATERIAL: NOTED IN INDIVIDUAL DRAWINGS
6. WEIGHT: 12.56 LBM
7. WARRANTY: 15 YEARS

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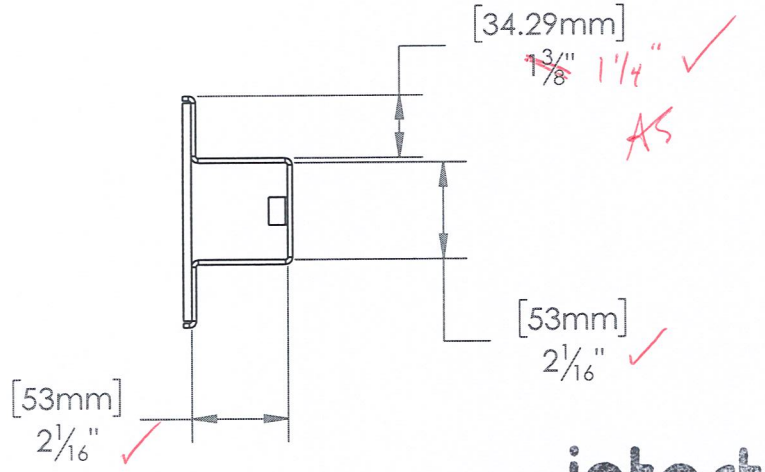
FORTRESS BUILDING PRODUCTS
Fortress Iron, LP
1720 N 1st Street
Garland, Tx 75040

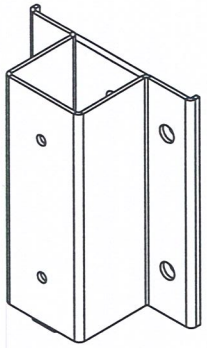
THIRD ANGLE

Sheet: 1 OF 1

REV	DATE	BY	DESCRIPTION
A	5/19/22	JH	REMOVE POST CAP

DESCRIPTION: FE26 POST 3"X55"
DRAWN BY: evant
DATE: 11/17/2021
DIVISION: Fortress Railing
SCALE: 1:8
ITEM #: 5335516X
FILE NAME/PART #: R3135-12429
REV: A



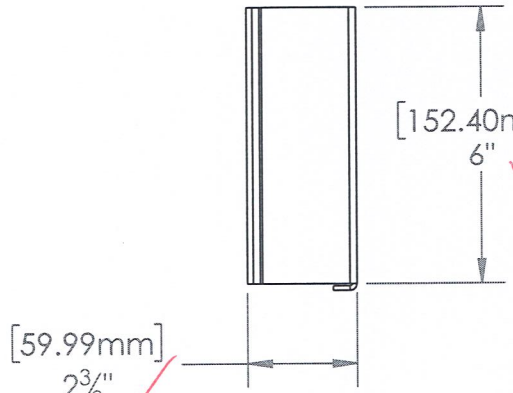


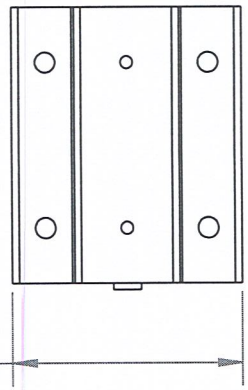
intertek

Test sample complies with these details.
Deviations are noted.

Report # N9652.01-119-16

Date 10/14/22 Tech AJS





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FORTRESS™ RAILING PRODUCTS

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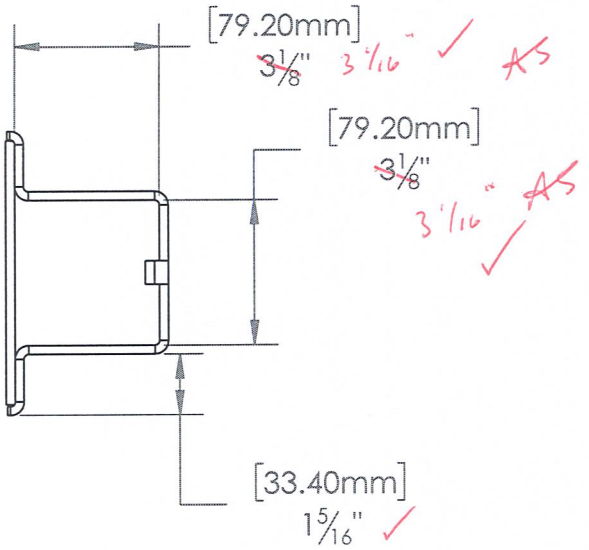
REV	DATE	BY	DESCRIPTION
B	09/20/19	KF	Initial Drawing

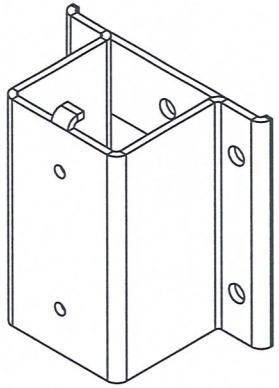
DESCRIPTION: FE26-FM BRKT STRAIGHT 2" WELDED PLATES

DRAWN BY: KevinF | SCALE: 1 : 4

DATE: 09/20/2019 | DIVISION: Fortress Railing

Sheet: 1 OF 1 | ITEM #: | FILE NAME/PART #: R3139-03326A | REV: B



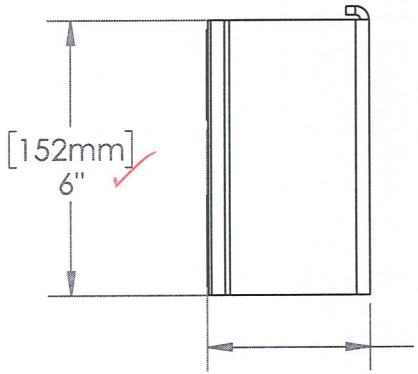


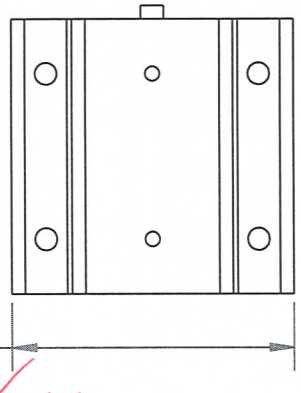
intertek

Test sample complies with these details.
Deviations are noted.

Report # A9652.01-119-16

Date 10/14/22 Tech ATS





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REV	DATE	BY	DESCRIPTION
B	09/20/19	KF	Initial Drawing

FORTRESS — RAILING PRODUCTS —

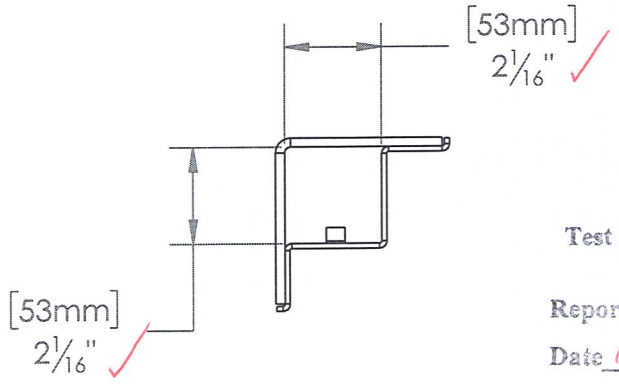
Fortress Railing
1720 N 1st Street
Garland, Tx 75040

DESCRIPTION: FE26-FM BRKT STRAIGHT 3" WELDED PLATES

DRAWN BY: KevinF | SCALE: 1 : 4

DATE: 09/20/2019 | DIVISION: Fortress Railing

Sheet: 1 OF 1 | ITEM #: | FILE NAME/PART #: R3139-03329A | REV: B

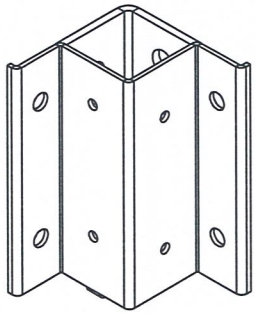


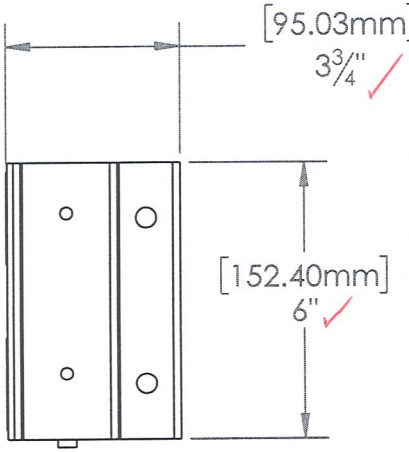
intertek

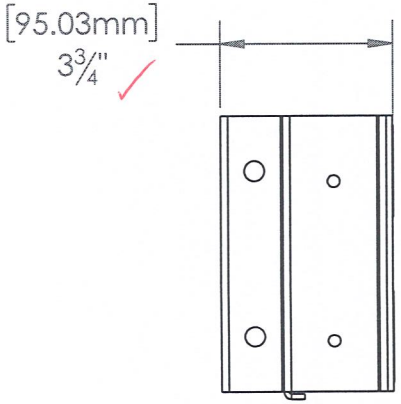
Test sample complies with these details.
Deviations are noted.

Report # N9652.01-119-16

Date 10/14/22 Tech AJS







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FORTRESS — RAILING PRODUCTS —

Fortress Railing
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Garland, Tx 75040

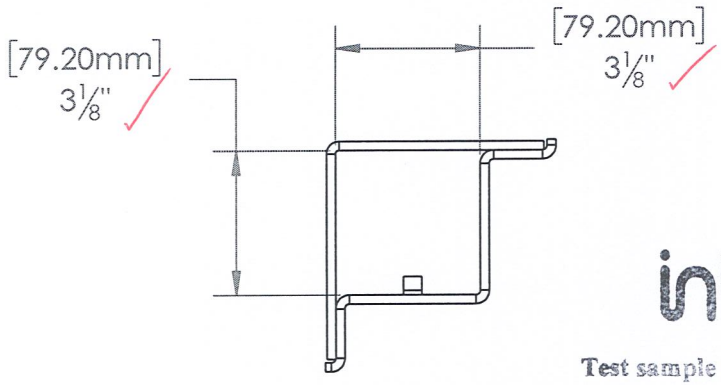
REV	DATE	BY	DESCRIPTION
B	09/20/19	KF	Initial Drawing

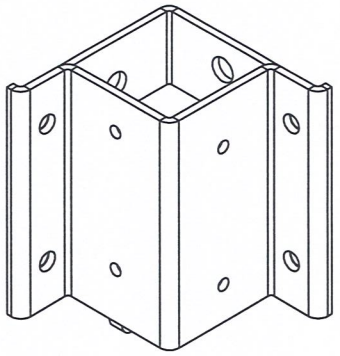
DESCRIPTION: FE26-FM BRKT INSIDE CNR 2" WELDED PLATES

DRAWN BY: KevinF | SCALE: 1 : 4

DATE: 09/20/2019 | DIVISION: Fortress Railing

Sheet: 1 OF 1 | ITEM #: | FILE NAME/PART #: R3139-03338A | REV: B



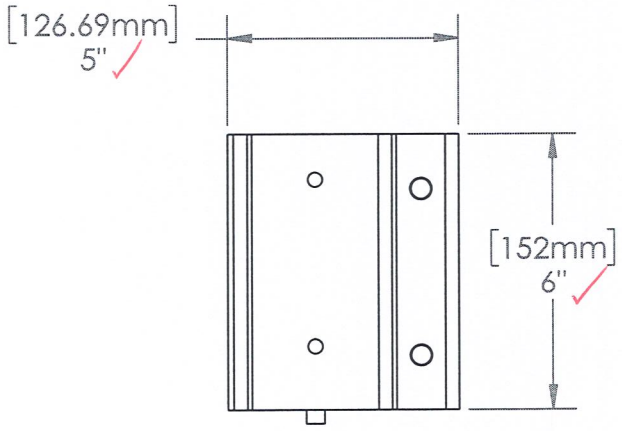


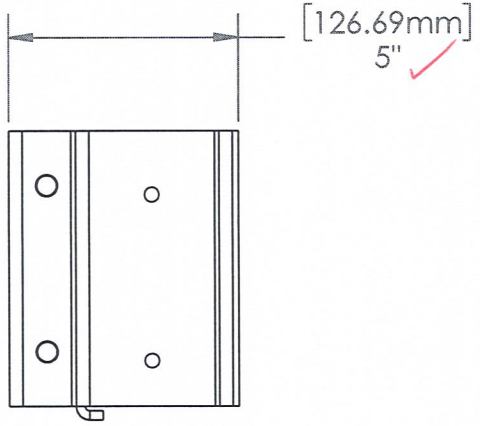
intertek

Test sample complies with these details.
Deviations are noted.

Report # N9652.01-119-16

Date 10/14/22 Tech AJS





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FORTRESS™ RAILING PRODUCTS

Fortress Railing
1720 N 1st Street
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REV	DATE	BY	DESCRIPTION
B	09/20/19	KF	Initial Drawing

DESCRIPTION: FE26-FM BRKT INSIDE CNR 3" WELDED PLATES

DRAWN BY: KevinF | SCALE: 1 : 4

DATE: 09/20/2019 | DIVISION: Fortress Railing

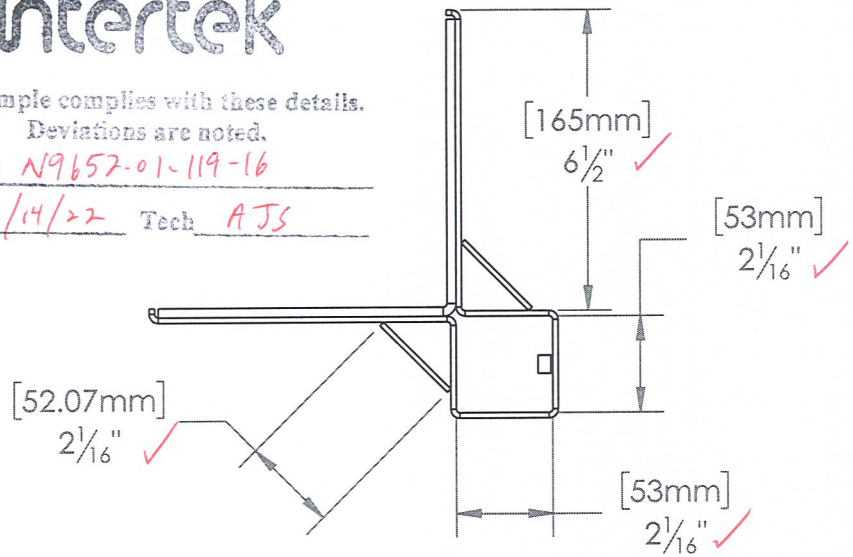
Sheet: 1 OF 1 | ITEM #: | FILE NAME/PART #: R3139-03341A | REV: B

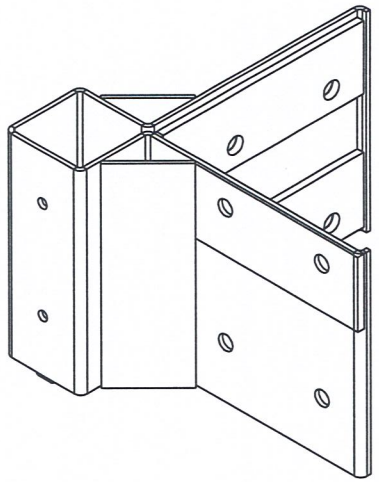
intertek

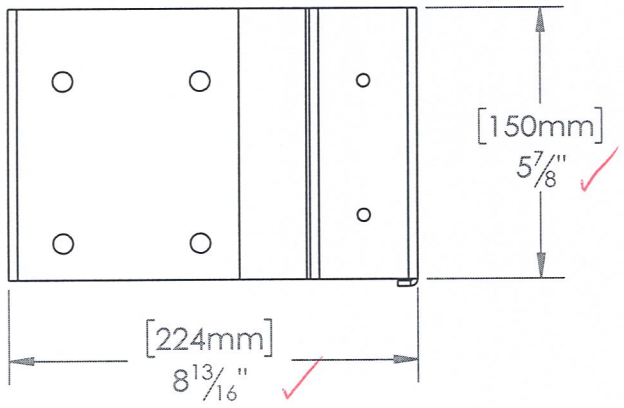
Test sample complies with these details.
Deviations are noted.

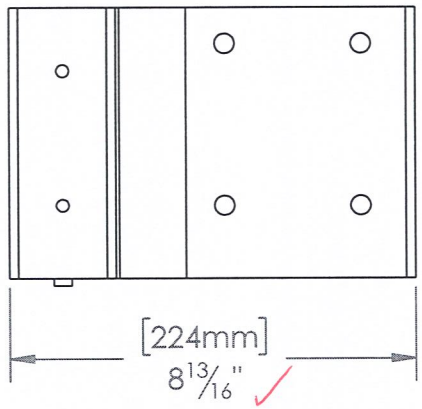
Report # N9652-01-119-16

Date 10/14/22 Tech AJS









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REV	DATE	BY	DESCRIPTION
D	09/20/19	KF	Initial Drawing

DESCRIPTION: FE26-FM BRKT OUTSIDE CNR 2" WELDED PLATES

DRAWN BY: KevinF | SCALE: 1 : 4

DATE: 09/20/2019 | DIVISION: Fortress Railing

FORTRESS — RAILING PRODUCTS —

Fortress Railing
1720 N 1st Street
Garland, Tx 75040

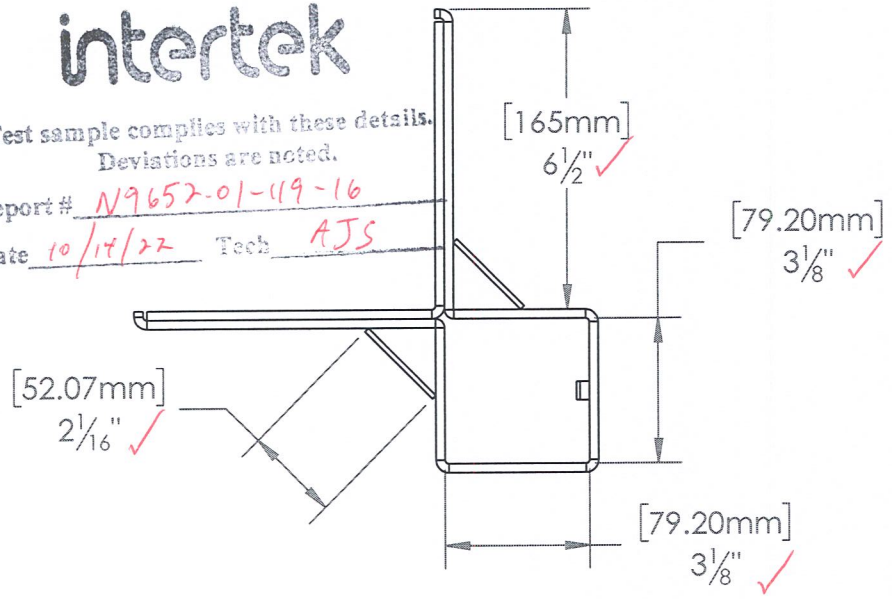
Sheet: 1 OF 1 | ITEM #: | FILE NAME/PART #: R3139-03332A | REV: D

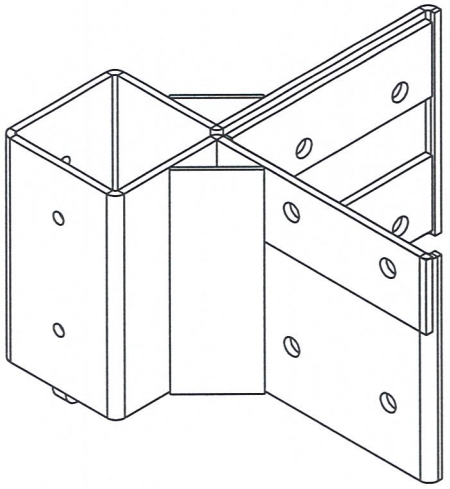
intertek

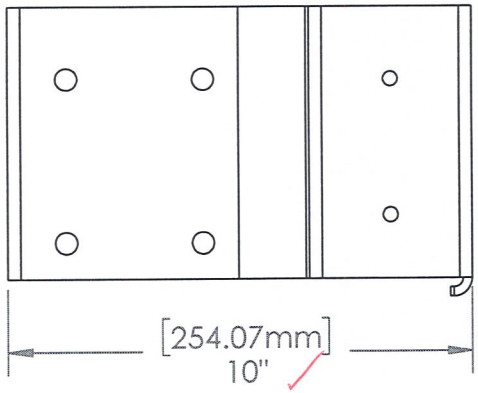
Test sample complies with these details.
Deviations are noted.

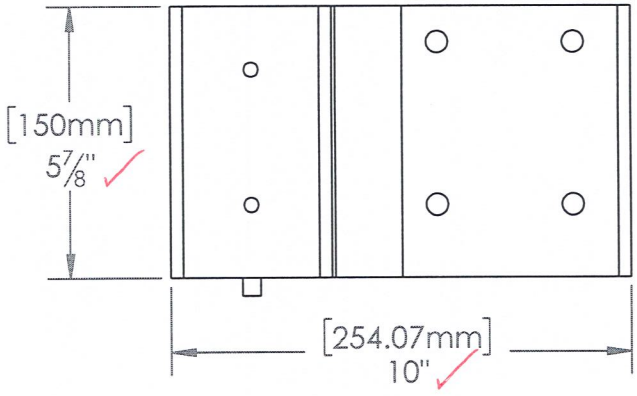
Report # N9652-01-119-16

Date 10/14/22 Tech AJS









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REV	DATE	BY	DESCRIPTION
D	09/20/19	KF	Initial Drawing

DESCRIPTION: FE26-FM BRKT OUTSIDE CNR 3" WELDED PLATES

DRAWN BY: KevinF | SCALE: 1 : 4

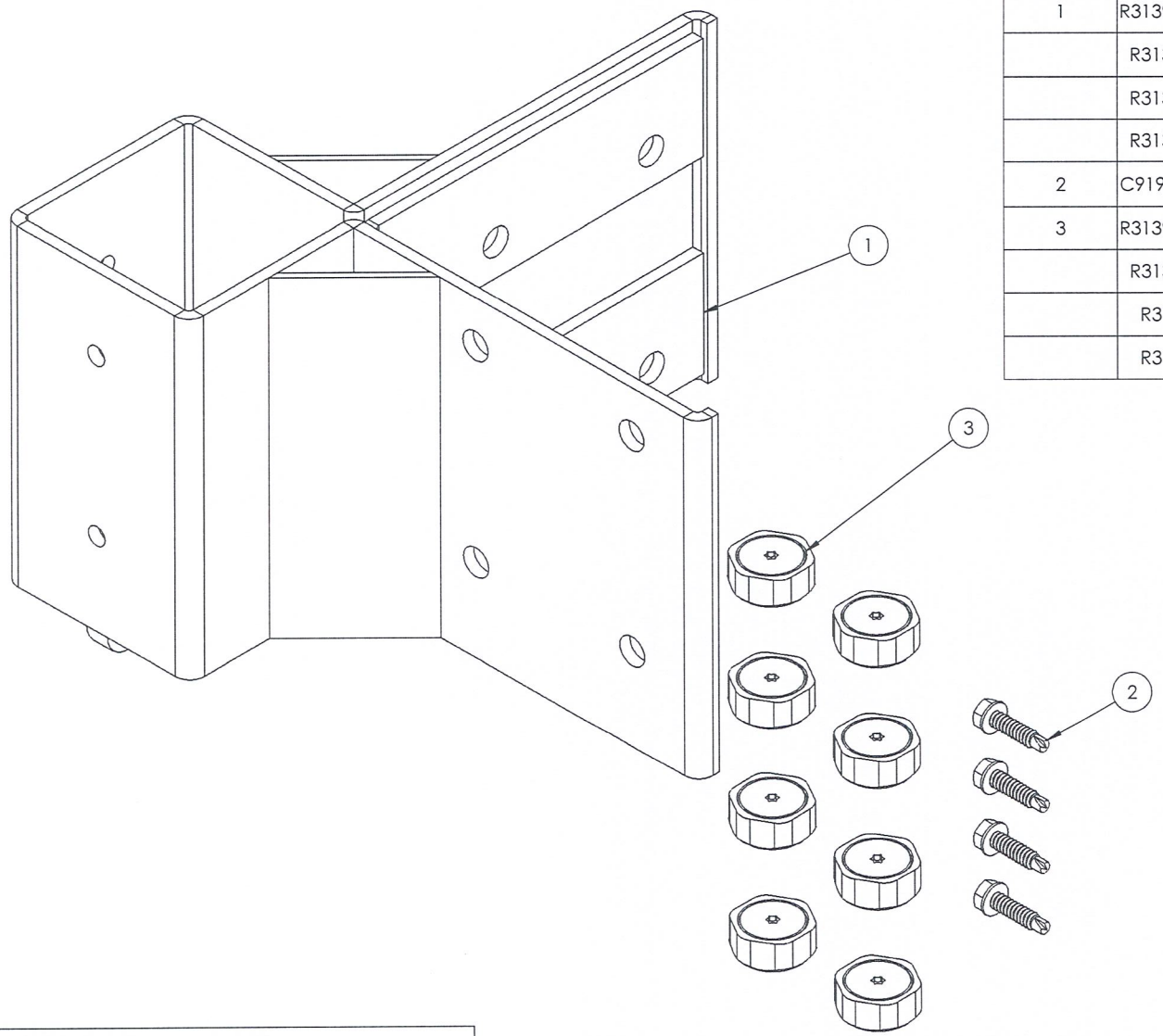
DATE: 09/20/2019 | DIVISION: Fortress Railing

FORTRESS RAILING PRODUCTS

Fortress Railing
1720 N 1st Street
Garland, Tx 75040

Sheet: 1 OF 1 | ITEM #: | FILE NAME/PART #: R3139-03335A | REV: D

TITLE: FE26-FM BRKT OUTSIDE CNR 3"



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	R3139-03335	FE26-FM BRKT OUTSIDE CNR 3" WELDED PLATES	1
	R3139-03333	FE26-FM BRKT OUTSIDE CNR 3" FRONT PLATE	1
	R3139-03334	FE26-FM BRKT OUTSIDE CNR BACK PLATE	2
	R3134-07991	GUSSET FOR FASCIA MOUNT BRACKET	2
2	C9191-00107	M6 X 24mm SELF DRILLING SCREW T-25 HEX HEAD	4
3	R3139-03408	HEX HEAD BOLT COVER	2
	R3139-03344	FM BRKT BOLT COVER ASSEMBLY	4
	R3139-03342	FM BRKT BOLT COVER BASE	1
	R3139-03343	FM BRKT BOLT COVER CAP	1

intertek

Test sample complies with these details.
Deviations are noted.

Report # N9652-01-119-16

Date 10/14/22 Tech AJS

GENERAL NOTES:
1. ALL DIMENSIONS ARE SHOWN IN INCHES [mm]
2. ALL DIMENSIONS ARE BEFORE ANY FINISHING OR COATING
3. ALL DIMENSIONS ARE ± 0.5mm (UNLESS OTHERWISE NOTED)
4. SEE PRODUCT LINE NOTES PAGE R3100-00001
5. MATERIAL: NOTED IN INDIVIDUAL COMPONENTS
6. WEIGHT: 12.05 LBM
7. WARRANTY: 15 YEAR

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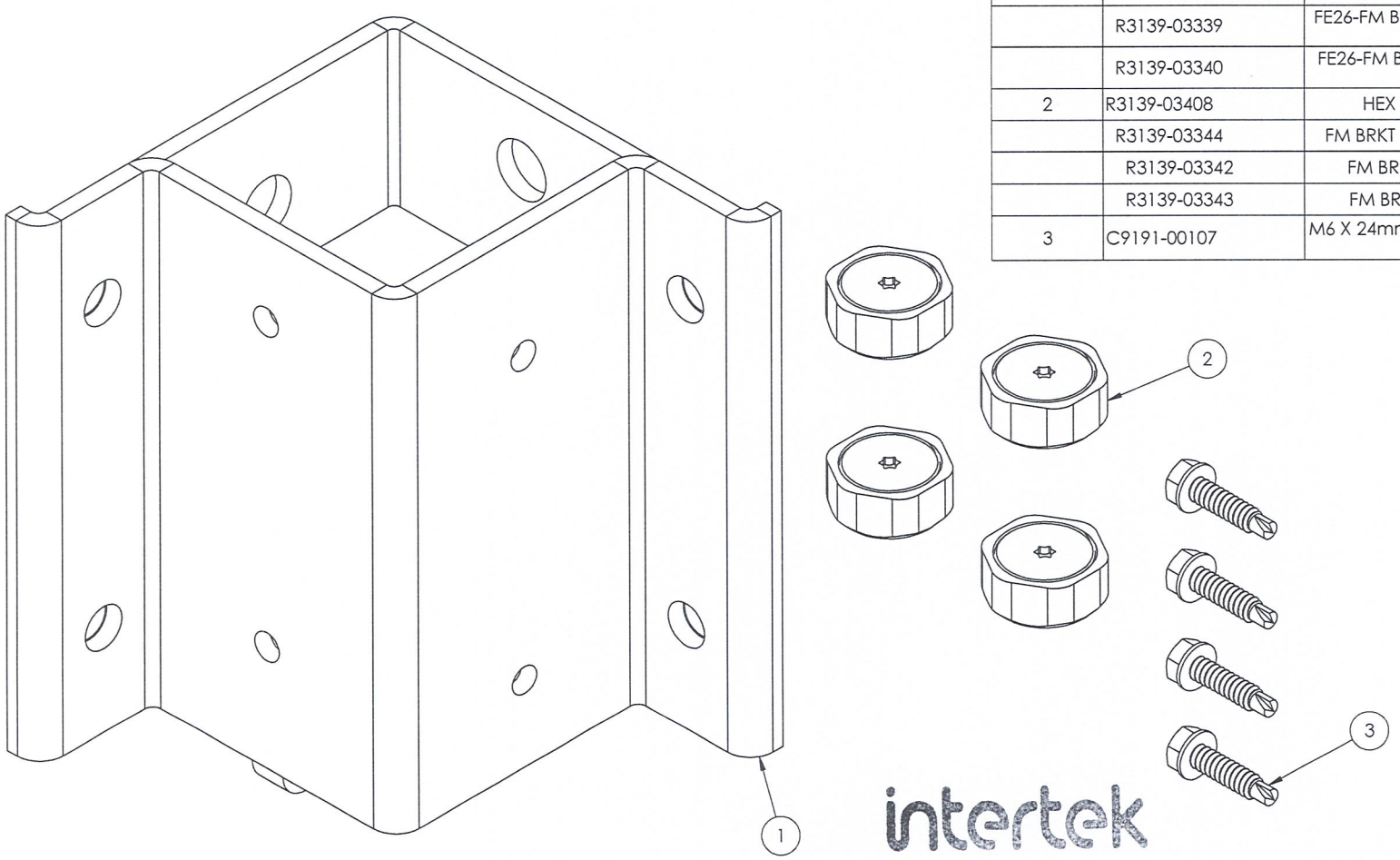
Sheet: 1 OF 1

REV	DATE	BY	DESCRIPTION
B	5/15/19	LD	STANDARDIZED

DESCRIPTION: FE26-FM BRKT OUTSIDE CNR 3"
DRAWN BY: geoffl
DATE: 06/28/2016 DIVISION: Fortress Railing
SCALE: 2:3
ITEM #: 5350301X
FILE NAME/PART #: R3139-03406
REV: B

TITLE: FE26-FM BRKT INSIDE CNR 3"

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	R3139-03341	FE26-FM BRKT INSIDE CNR 3" WELDED PLATES	1
	R3139-03339	FE26-FM BRKT INSIDE CNR 3" FRONT PLATE	1
	R3139-03340	FE26-FM BRKT INSIDE CNR 3" BACK PLATE	2
2	R3139-03408	HEX HEAD BOLT COVER	1
	R3139-03344	FM BRKT BOLT COVER ASSEMBLY	4
	R3139-03342	FM BRKT BOLT COVER BASE	1
	R3139-03343	FM BRKT BOLT COVER CAP	1
3	C9191-00107	M6 X 24mm SELF DRILLING SCREW T-25 HEX HEAD	4



intertek

Test sample complies with these details.
Deviations are noted.

Report # N965201-119-16

Date 10/14/22 Tech AJS

GENERAL NOTES:
1. ALL DIMENSIONS ARE SHOWN IN INCHES [mm]
2. ALL DIMENSIONS ARE BEFORE ANY FINISHING OR COATING
3. ALL DIMENSIONS ARE ± 0.5mm (UNLESS OTHERWISE NOTED)
4. SEE PRODUCT LINE NOTES PAGE R3100-00001
5. MATERIAL: NOTED IN INDIVIDUAL COMPONENTS
6. WEIGHT: 5.04 LBM
7. WARRANTY: 15 YEAR

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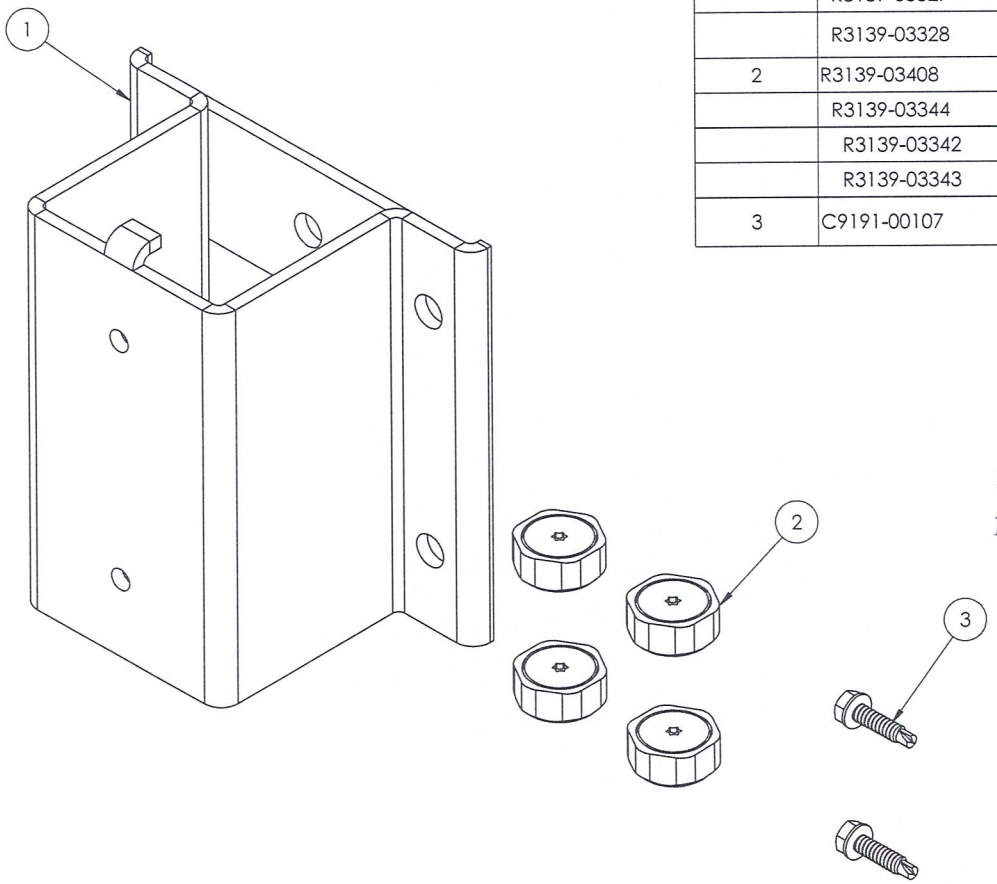
FORTRESS BUILDING PRODUCTS

REV	DATE	BY	DESCRIPTION
B	5/15/19	LD	STANDARDIZED

DESCRIPTION: FE26-FM BRKT INSIDE CNR 3"
DRAWN BY: geoffl
DATE: 06/28/2016 DIVISION: Fortress Railing
SCALE: 1:1
Sheet: 1 OF 1
ITEM #: 5350302X
FILE NAME/PART #: R3139-03407
REV: B

TITLE: FE26-FM BRKT STRAIGHT 3"

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	R3139-03329	FE26-FM BRKT STRAIGHT 3" WELDED PLATES	1
	R3139-03327	FE-26-FM STRAIGHT 3"	1
	R3139-03328	FE-26-FM STRAIGHT 3" BACKING PLATE	2
2	R3139-03408	HEX HEAD BOLT COVER	1
	R3139-03344	FM BRKT BOLT COVER ASSEMBLY	4
	R3139-03342	FM BRKT BOLT COVER BASE	1
	R3139-03343	FM BRKT BOLT COVER CAP	1
3	C9191-00107	M6 X 24mm SELF DRILLING SCREW T-25 HEX HEAD	2



intertek

Test sample complies with these details.
Deviations are noted.

Report # N9652.01-119-16

Date 10/14/22 Tech AJS

GENERAL NOTES:
1. ALL DIMENSIONS ARE SHOWN IN INCHES [mm]
2. ALL DIMENSIONS ARE BEFORE ANY FINISHING OR COATING
3. ALL DIMENSIONS ARE ± 0.5mm (UNLESS OTHERWISE NOTED)
4. SEE PRODUCT LINE NOTES PAGE R3100-00001
5. MATERIAL: NOTED ON INDIVIDUAL COMPONENTS
6. WEIGHT: 5.15 LBM
7. WARRANTY: 15 YEAR

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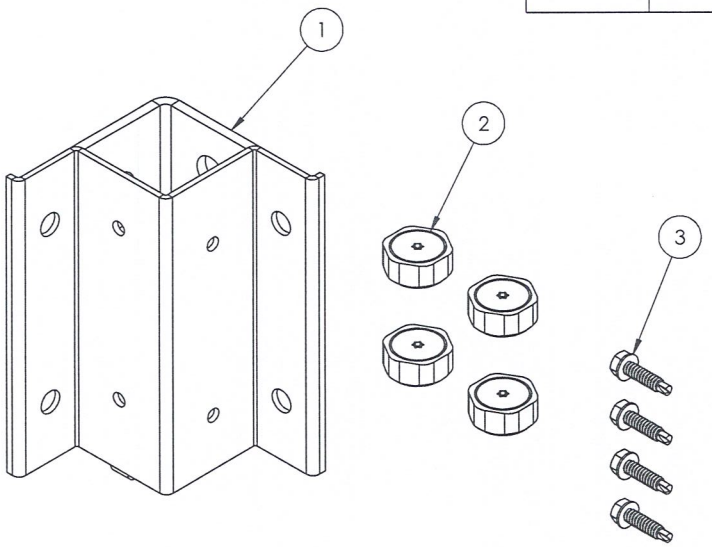
Sheet: 1 OF 1

REV	DATE	BY	DESCRIPTION
B	5/15/19	LD	STANDARDIZED

DESCRIPTION: FE26-FM BRKT STRAIGHT 3"
DRAWN BY: geoffl
SCALE: 2:3
DATE: 06/30/2016 DIVISION: Fortress Railing
ITEM #: 5350300X
FILE NAME/PART #: R3139-03409
REV: B

TITLE: FE26-FM BRKT INSIDE CNR 2"

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	R3139-03338	FE26-FM BRKT INSIDE CNR 2" WELDED PLATES	1
	R3139-03336	FE26-FM INSIDE CNR 2" FRONT PLATE	1
	R3139-03337	FE26-FM INSIDE CNR 2" BACK PLATE	2
2	R3139-03408	HEX HEAD BOLT COVER	1
	R3139-03344	FM BRKT BOLT COVER ASSEMBLY	4
	R3139-03342	FM BRKT BOLT COVER BASE	1
	R3139-03343	FM BRKT BOLT COVER CAP	1
3	C9191-00107	M6 X 24mm SELF DRILLING SCREW T-25 HEX HEAD	4



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Test sample complies with these details.
Deviations are noted.

Report # N9652-01-19-16

Date 10/14/22 Tech AJS

GENERAL NOTES:
1. ALL DIMENSIONS ARE SHOWN IN INCHES [mm]
2. ALL DIMENSIONS ARE BEFORE ANY FINISHING OR COATING
3. ALL DIMENSIONS ARE ± 0.5mm (UNLESS OTHERWISE NOTED)
4. SEE PRODUCT LINE NOTES PAGE R3100-00001
5. MATERIAL: NOTED IN INDIVIDUAL COMPONENTS
6. WEIGHT: 2.88 LBM
7. WARRANTY: 15 YEAR

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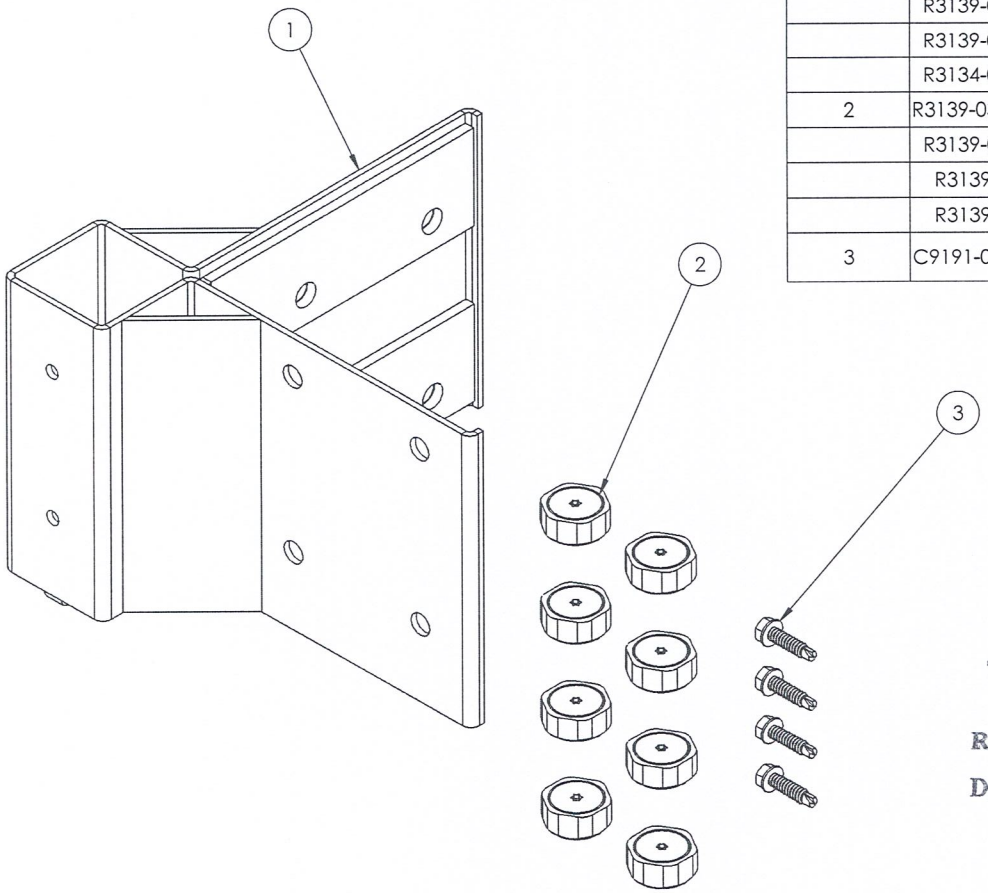
Sheet: 1 OF 1

REV	DATE	BY	DESCRIPTION
B	5/15/19	LD	STANDARDIZED

DESCRIPTION: FE26-FM BRKT INSIDE CNR 2"
DRAWN BY: geoffl
DATE: 08/04/2016 DIVISION: Fortress Railing
SCALE: 1:2
ITEM #: 5350202X
FILE NAME/PART #: R3139-03484
REV: B

TITLE: FE26-FM BRKT OUTSIDE CNR 2"

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	R3139-03332	FE26-FM BRKT OUTSIDE CNR 2" WELDED PLATES	1
	R3139-03330	FE26-FM OUTSIDE 2" FRONT PLATE	1
	R3139-03334	FE26-FM BRKT OUTSIDE CNR BACK PLATE	2
	R3134-07991	GUSSET FOR FASCIA MOUNT BRACKET	2
2	R3139-03408	HEX HEAD BOLT COVER	2
	R3139-03344	FM BRKT BOLT COVER ASSEMBLY	4
	R3139-03342	FM BRKT BOLT COVER BASE	1
	R3139-03343	FM BRKT BOLT COVER CAP	1
3	C9191-00107	M6 X 24mm SELF DRILLING SCREW T-25 HEX HEAD	4



intertek

Test sample complies with these details.
Deviations are noted.

Report # N9652.01-119-16

Date 10/14/22 Tech AJS

GENERAL NOTES:
1. ALL DIMENSIONS ARE SHOWN IN INCHES [mm]
2. ALL DIMENSIONS ARE BEFORE ANY FINISHING OR COATING
3. ALL DIMENSIONS ARE ± 0.5mm (UNLESS OTHERWISE NOTED)
4. SEE PRODUCT LINE NOTES PAGE R3100-00001
5. MATERIAL: NOTED IN INDIVIDUAL COMPONENTS
6. WEIGHT: 8.00 LBM
7. WARRANTY: 15 YEAR

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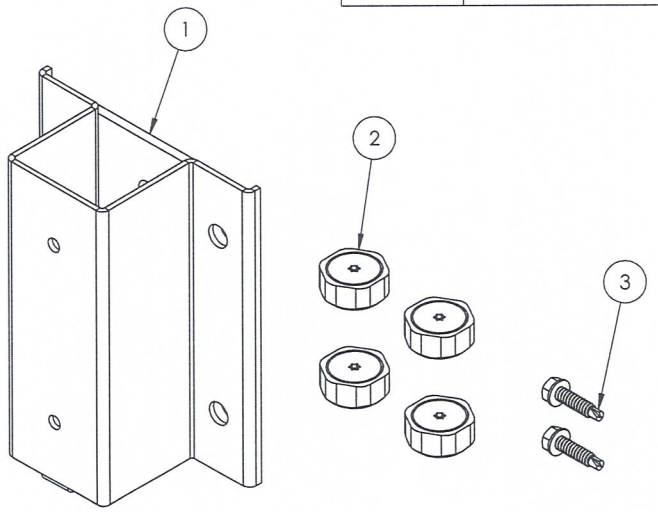
Sheet: 1 OF 1

REV	DATE	BY	DESCRIPTION
B	5/15/19	LD	STANDARDIZED

DESCRIPTION: FE26-FM BRKT OUTSIDE CNR 2"
DRAWN BY: geoffl
DATE: 08/04/2016 DIVISION: Fortress Railing
SCALE: 1:4
ITEM #: 505201X
FILE NAME/PART #: R3139-03489
REV: B

TITLE: FE26-FM BRKT STRAIGHT 2"

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	R3139-03326	FE26-FM BRKT STRAIGHT 2" WELDED PLATES	1
	R3139-03324	FE26-FM STRAIGHT 2" FRONT PLATE	1
	R3139-03325	FE26-FM BRKT STRAIGHT 2" BACK PLATE	2
2	R3139-03408	HEX HEAD BOLT COVER	1
	R3139-03344	FM BRKT BOLT COVER ASSEMBLY	4
	R3139-03342	FM BRKT BOLT COVER BASE	1
	R3139-03343	FM BRKT BOLT COVER CAP	1
3	C9191-00107	M6 X 24mm SELF DRILLING SCREW T-25 HEX HEAD	2



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Test sample complies with these details.
Deviations are noted.

Report # N9652.01-119-16

Date 10/14/22 Tech AJS

GENERAL NOTES:
1. ALL DIMENSIONS ARE SHOWN IN INCHES [mm]
2. ALL DIMENSIONS ARE BEFORE ANY FINISHING OR COATING
3. ALL DIMENSIONS ARE ± 0.5mm (UNLESS OTHERWISE NOTED)
4. SEE PRODUCT LINE NOTES PAGE R3100-00001
5. MATERIAL: NOTED ON INDIVIDUAL COMPONENTS
6. WEIGHT: 2.61 LBM
7. WARRANTY: 15 YEAR

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Sheet: 1 OF 1

REV	DATE	BY	DESCRIPTION
B	5/15/19	LD	STANDARDIZED

DESCRIPTION: FE26-FM BRKT STRAIGHT 2"
DRAWN BY: geoffl
DATE: 08/05/2016 DIVISION: Fortress Railing
SCALE: 1:2
ITEM #: 5350200X
FILE NAME/PART #: R3139-03490
REV: B

130 Derry Court
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SECTION 12
REVISION LOG

REVISION #	DATE	PAGES	REVISION
0	10/14/22	N/A	Original Report Issue