Eastern Metal Supply EMS-1000 ACM PAINSCREEN PANEL ATTACHMENT SYSTEM



FABRICATION AND INSTALLATION GUIDE

EMS PARTNERS WITH 3A COMPOSITES TO SUPPLY AN APPROVED EXTRUDED ALUMINUM ATTACHMENT SYSTEM

EASTERN METAL SUPPLY (EMS) now offers an approved extruded aluminum ACM attachment system in conjunction with testing successfully completed while partnering with 3A Composites for their ALUCOBOND® PLUS panels. The EMS attachments are an easy to install Drained and Back Ventilated system (DBV). Our pre-engineered system is efficient and cost effective. It provides the ability to adhere to AAMA 509-09 DBV rainscreen, NFPA 285 flame spread, ASTM E330 deflection and ASTM E72 serviceability testing.

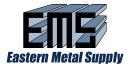
EMS with Panel Attachment extrusion inventory on hand in multiple locations around the country will provide quick lead times to allow fabricators to take advantage of small and large job opportunities with reduced freight costs. EMS can also assist with any other aluminum needs you may have.

INTRODUCTION

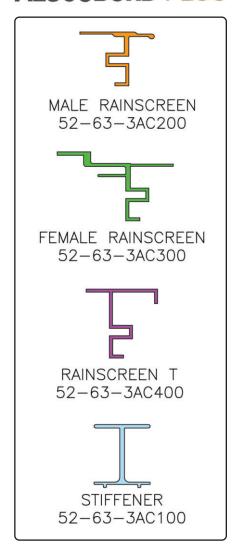
These instructions have been developed to assist EMS/3AC customers in meeting tests required for MCM systems such as NFPA 285 and AAMA 509 by providing fabrication methods for EMS' Drained & Back Ventilated rainscreen system. These instructions include drawings showing the component parts and accessories. Please take a moment to review this information to become familiar with the guide.

EMS' extrusions are usable with ALUCOBOND® PLUS panels specifically designed for commercial and industrial buildings. EMS provides the extrusions for framing and installing the ALUCOBOND® PLUS panels, per the assembly drawings shown in this publication. The frame extrusions are designed to fasten the panel to min. 18 ga. Steel sub-airts installed by others. EMS does not perform any installation.

These instructions are not intended to ensure against water leakage or mold. EMS is not an expert in waterproofing a building. The publication describes the fabrication of a 'rainscreen' which is designed to leak air and water in a controlled way. Rainscreens allow water to penetrate the outer layer of the wall envelope and weep back out. We assume that fabricators and installers are familiar with the design principles of rainscreen attachment systems.



ALUCOBOND® PLUS





Eastern Metal Supply EMS-1000 ACM RAINSCREEN PANEL ATTACHMENT SYSTEM



ABOUT EMS

EMS has 17 distribution and manufacturing locations in the Eastern 2/3rds of the country employing over 800 people. We have a focus on innovative extruded aluminum and sheet solutions.

- Inventory on Hand
- Multitude of Standard Industrial Shapes
- Custom Extrusions
- Fast Delivery on EMS trucks
- Machining & Fabrication Capabilities

Learn more about EMS and our various divisions by visiting our website:

www.easternmetal.com

SERVICE

EMS has Panel Attachment extrusion inventory on hand in each of our major locations.

- quick lead times
- small and large job capability
- delivery on EMS trucks
- small to no freight upcharges within normal delivery areas

FABRICATION AND INSTALLATION GUIDE

TOOLS & EQUIPMENT REQUIRED

While EMS' extrusions are designed for easy fabrication and attachment to ALUCOBOND® PLUS panels, they are not designed for fabrication by those who are not knowledgeable in the building trade, like a home owner. This product requires the experience of a skilled sheet metal mechanic for proper fabrication.

Cutting, Sawing or Routing:

CNC Router (optional), Table Saw, Panel Saw, Hand Held Router

Drilling

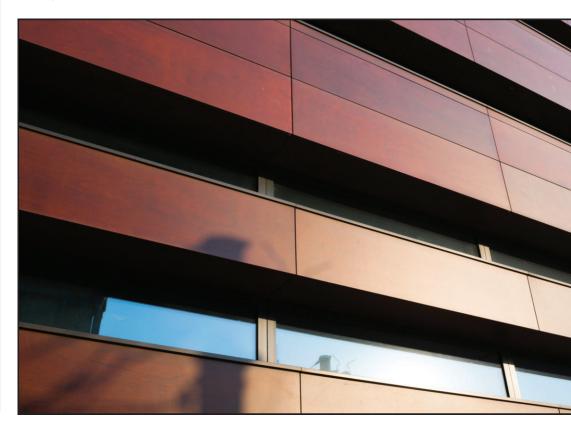
Hand Drill, Drill Press, 3/16" Drill Bit, Countersinking Bit to accommodate countersunk rivets

Materials Required:

Clamps, #10 x 3/4" LG. S/S FPH Tek screws (or equivalent), Rivet Gun, Dow 795 Silicone Sealant (or equivalent), Caulk Gun, 3M VHB5952 Double Sided Tape (or equivalent) Lamatek PN25B00-00002 Weep Baffles (or equivalent)

SAFETY

Normal safety and health precautions in any fabrication environment should be used when fabricating EMS' extrusions and attaching to ALUCOBOND® PLUS ACM panel systems. Eye or other face protection, as well as hearing protection should always be worn.





DISCLAIMER

EMS fabrication guidelines and instructions in this publication are for general information to assist fabricators in the assembly of the components sold by EMS. EMS is not responsible for the workmanship of fabricators or others on any project and EMS is not responsible for the use to which the details and instructions are put by others, including fabricators. EMS disclaims design responsibility on any specific project. The drawings, details and any related notes or texts are based on typical requirements for the relevant products. Compliance with code and engineering for any specific project are the responsibilities of the designer and enduser.

Any details shown are solely for the purpose of illustrating typical fabrications and are not meant to address either products supplied by others, such as caulk or tape, or specific site design conditions for a specific building. EMS does not warrant the fitness of these details for a particular purpose or warrant the suitability of these details for construction. EMS does not assume any liability for the use of the details. It is the sole responsibility of a construction industry professional to apply their professional knowledge and judgment in utilizing the information contained in these details.

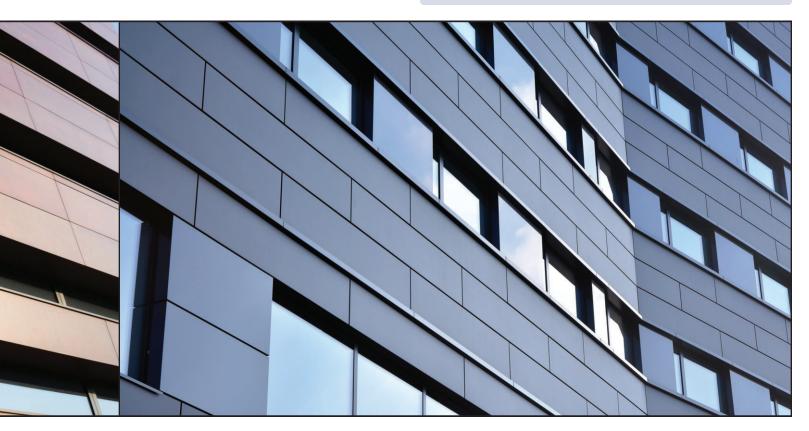
EMS is also not responsible and accepts no liability for the materials provided here that are the work product of others, such as the ALUCOBOND® PLUS panels. The fabricators are third-party, independent contractors and as such, remain solely responsible for their own actions. Water-tightness, leaks and water intrusion are the responsibility of others, including the installers, fabricators and designers.

This publication is not a substitution for hands-on training. This brochure is intended solely for construction professionals.

Please direct all technical questions to RAFFAELE BARIOLI (x1425) or CHRIS MILLER (x1433) at 800-432-2204.

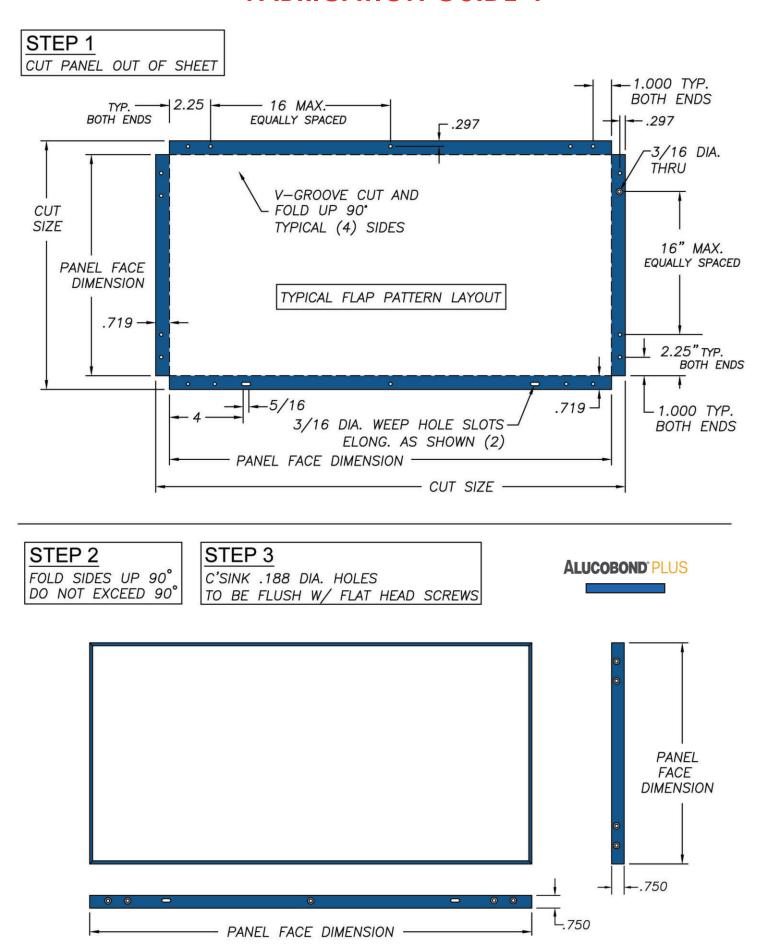
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- CONTACT SHEET
- LOCATIONS





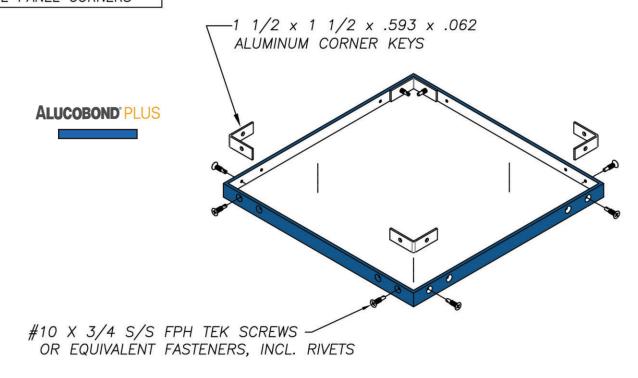
- FABRICATION GUIDE-1 ---

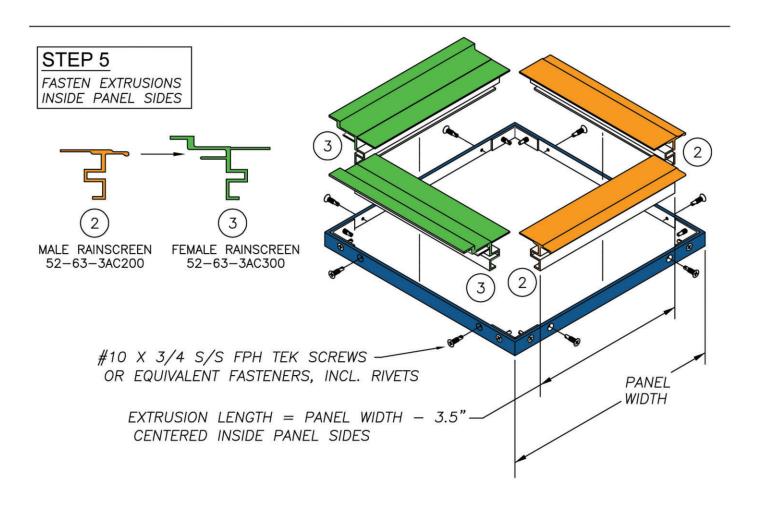


— FABRICATION GUIDE-2 -

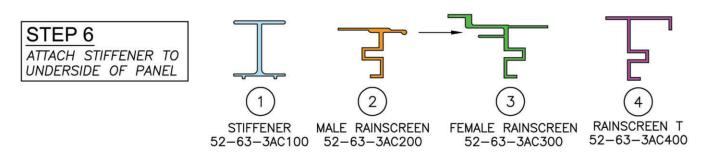
STEP 4

FASTEN CORNER KEYS INSIDE PANEL CORNERS

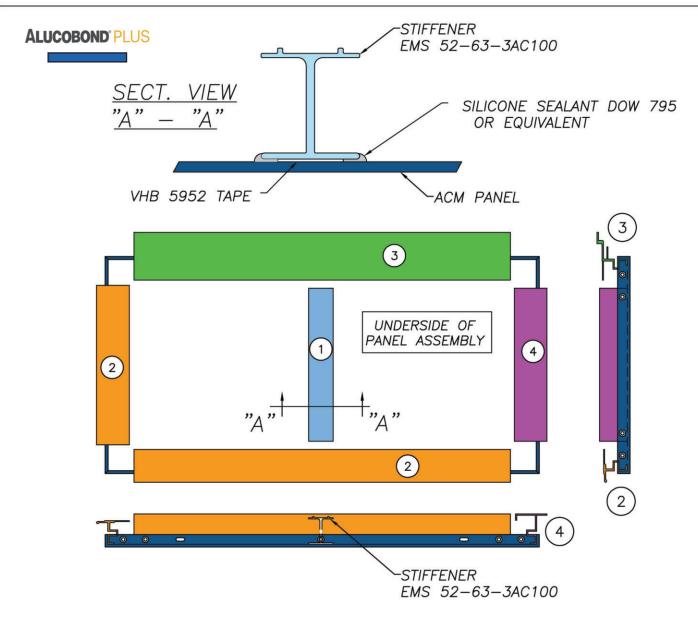




FABRICATION GUIDE-3





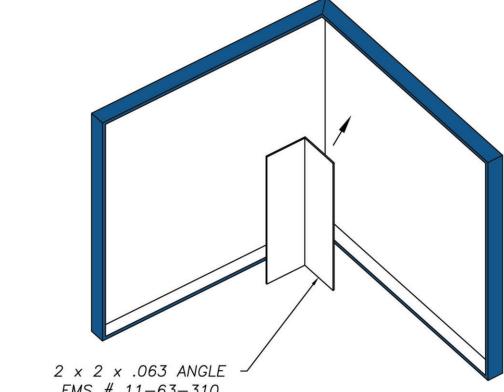


- FABRICATION GUIDE-4 -

STEP 7

ATTACH 90° ANGLE INSIDE CORNER PANEL

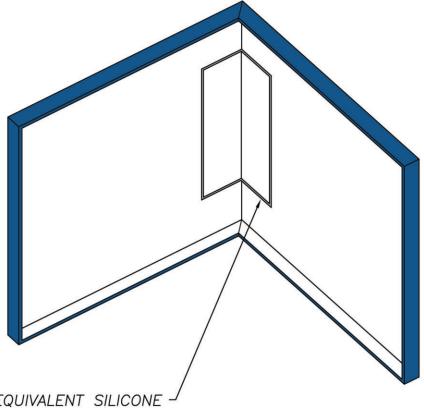
ALUCOBOND° PLUS



EMS # 11-63-310

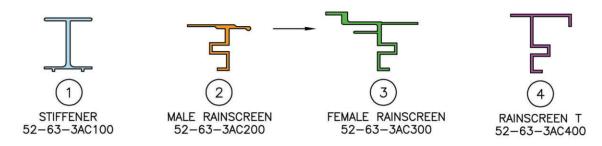
LENGTH = PANEL LENGTH MINUS 5"

CENTERED IN PANEL CORNER



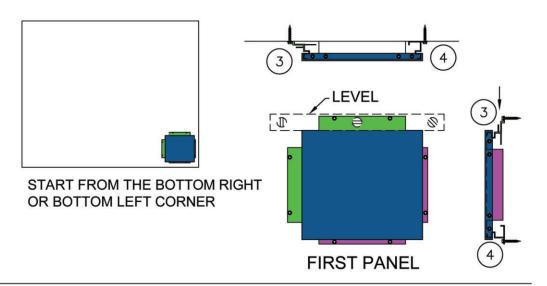
DOW 795 OR EQUIVALENT SILICONE - BACKSIDE AND EDGES AROUND ANGLE

LLATION GUIDE-ALUCOBOND° PLUS VIEW "C"-"C" VIEW "B"-"B" VIEW "A"-"A" "D" 4 4 4 T"D" "A" 1 1 1 VIEW "D"-"D" 4 2 2 4 _"E" 2 2 2 1/2" TYP. 3 3 3 [⊤]"E" VIEW "E"-"E" 2 4 2 4 1 1 1 2 2 2 VIEW "F"-"F" 3 1/2" TYP. Ť"_E" 3 2 2 4 1 1 1 VIEW "G"-"G" 4 4 4 1/2"———— TYP. 2 ALUCOBOND® PLUS ACM .500 GAP **ACM REVEAL** MALE RAINSCREEN FEMALE RAINSCREEN 52-63-3AC200 52-63-3AC300 STIFFENER RAINSCREEN T 52-63-3AC100 52-63-3AC400 REVEAL WIDTH



1ST STEPS

- LEVEL PANEL
- ATTACH LOWER SCREWS
- ATTACH UPPER SCREWS
- ATTACH RIGHT SCREWS
- ATTACH LEFT SCREWS

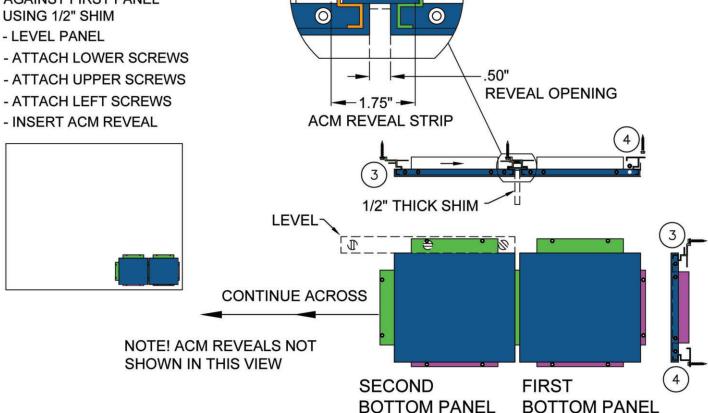


3

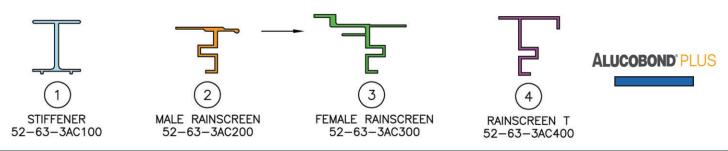
ALUCOBOND PLUS

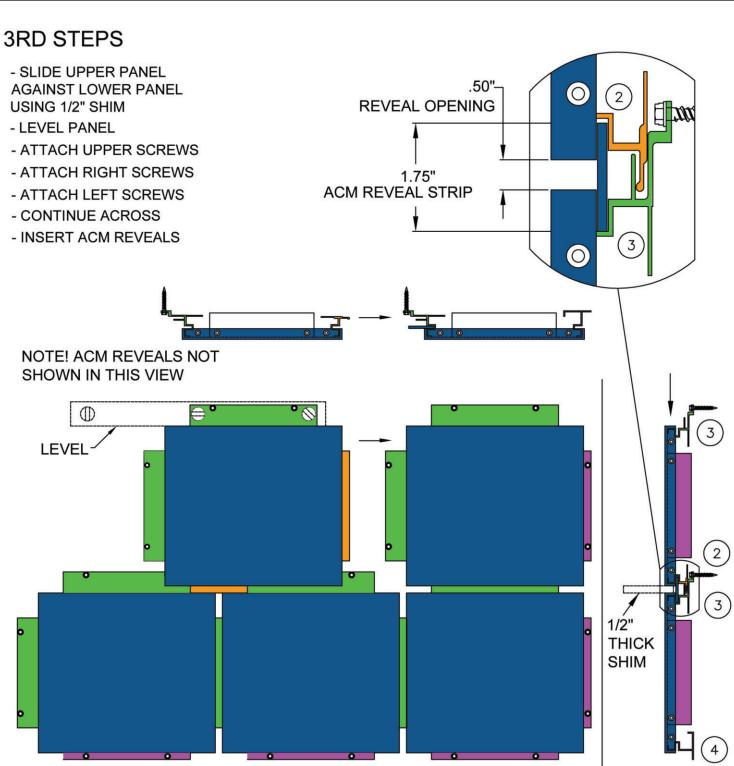
2ND STEPS

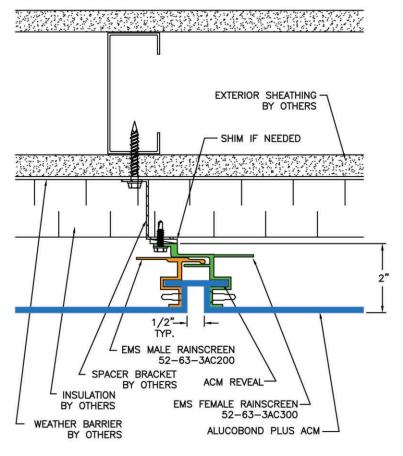
- SLIDE SECOND PANEL AGAINST FIRST PANEL



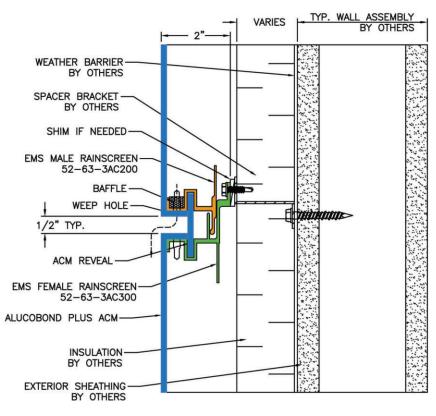
2



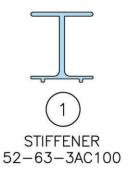


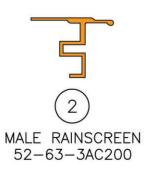


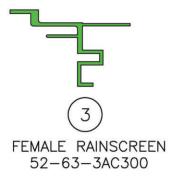
VERTICAL JOINT DETAIL





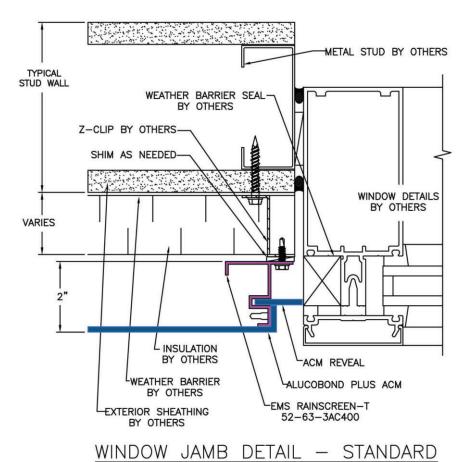


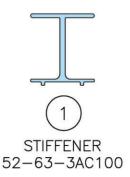


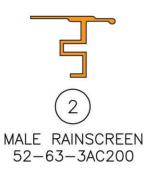


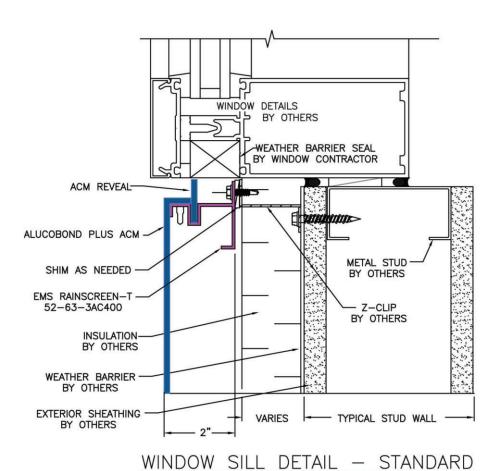


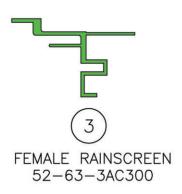


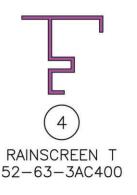




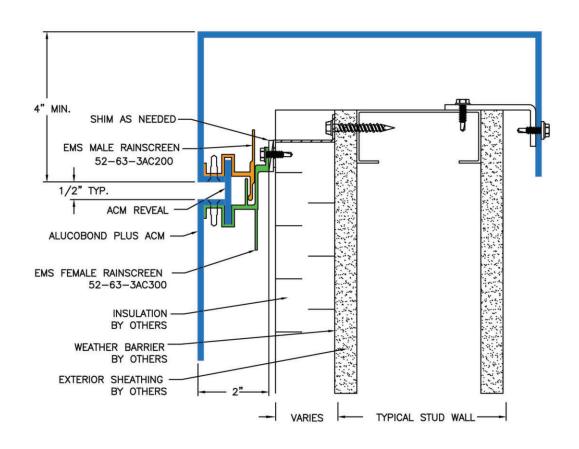


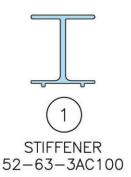


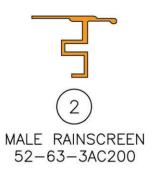




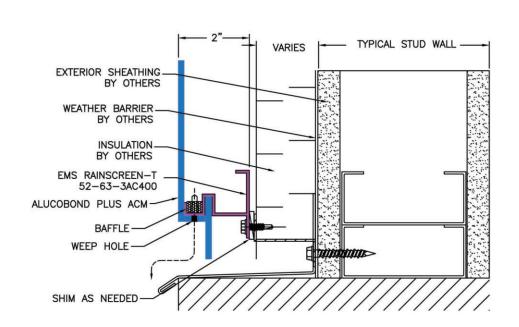








PARAPET CONDITION DETAIL

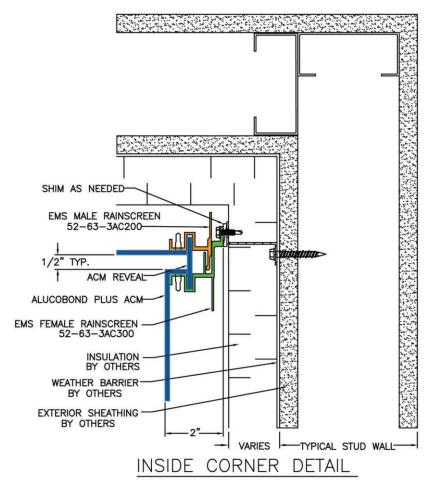


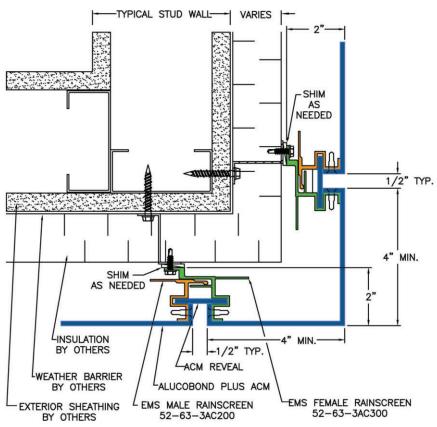
3 FEMALE RAINSCREEN 52-63-3AC300



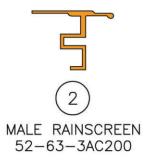


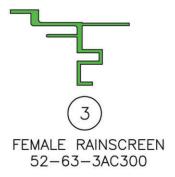
BASE CONDITION DETAIL







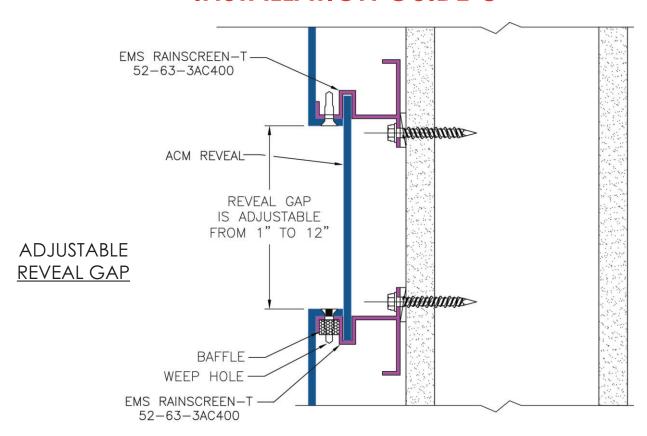








OUTSIDE CORNER DETAIL



Eastern Metal Supply

CONTACT INFORMATION

PRIMARY CONTACTS:

MIKE BROWN ACM Project Coordinator Senior Sales Manager

1-800-343-8154 x2202

RAFFAELE BARIOLI **Product Development** Manager

1-800-432-2204 x1425

CHRIS MILLER

Product Development Specialist

1-800-432-2204 x1433

BRIAN PETERSON Design Engineer

1-800-432-2204 x1429

EMS FL

JOHN EAGLETON Inside Sales Manager

3600 23rd Avenue South Lake Worth, FL 33461 1-800-432-2204

Fax: (561) 588-4780

Local: (561) 533-6061

EMS NC

JIM WEYRENS Regional Sales Manager

2925 Stewart Creek Blvd. Charlotte, NC 28216 1-800-343-8154 Local: (704) 391-2266

Fax: (704) 391-2267

EMS TX

SALLY GENTRY Inside Sales Manager

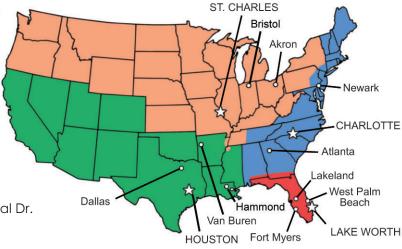
9400 Telge Road Houston, TX 77095 1-800-996-6061 Local: (281) 656-2296

Fax: (281) 656-2297

EMS MO CHRIS WIEHARDT

Inside Sales Manager 2931 Elm Point Industrial Dr. St Charles, MO 63301 1-888-822-6061

Local: (314) 344-3327 Fax: (314) 344-3349



BRANCHES - Sales Offices



EMS Florida (Corporate)

3600 23rd Ave. South Lake Worth, FL 33461 1-800-432-2204 local: (561) 533-6061 fax: (561) 588-4780 Services: FL & Caribbean 147,000 square feet

EMS North Carolina

2925 Stewart Creek Blvd. Charlotte, NC 28216 1-800-343-8154 local: (704) 391-2266 fax: (704) 391-2267 Services: NC SC VA

Services: NC, SC, VA, Eastern TN (Knoxville) 112,000 square feet

EMS Texas

9400 Telge Rd. Houston, TX 77095 1-800-996-6061 local: (281) 656-2296 fax: (281) 656-2297

Services: TX, LA, MS, CO, NM, AZ, UT, NV, CA, HI; Mexico and Central America 144,000 square feet

EMS Missouri

2931 Elm Point Industrial Dr. St. Charles, MO 63301 1-888-822-6061 local: (314) 344-3327 fax: (314) 344-3349

Services: MO, KS, IL, WI, MN, IA, NE, SD, ND, WY, MT, ID, OR, WA, AK; Western TN; Canada 68,000 square feet

Satellite Locations & Divisions of EMS



EMS FL: ASSA/Retail

4268 Westroads Dr. West Palm Beach, FL 33407 1-800-432-2204 1-877-999-ASSA (2772) fax: (561) 209-8380 113,000 square feet

EMS FL: Shutter/Patio

6729 Belvedere Road Suite 101 West Palm Beach, FL 33413 1-800-432-2204

110,000 square feet

EMS FL: Lakeland

4675 Drane Field Rd. Lakeland, FL 33811 (863) 682-6660 fax: (863) 682-3859

215,000 square feet

EMS Delaware

231 Executive Dr., Suite 11 Newark, DE 19702 1-800-343-8154 fax: (704) 391-2267

Services: DE, MD, NJ, Eastern PA, Washington DC, NYC metro, RI, CT, MA, NH, VT, ME 55,500 square feet

EMS Georgia

1451 North River Rd. Suite 200 Lithia Springs, GA 30122 1-800-343-8154 fax: (704) 391-2267 Services: GA, AL, Eastern TN (Nashville) 67,000 square feet



4945 Scarlet Lane Suite 6 Stow, Ohio 44224 1-888-822-6061 Fax: 314-344-3349

EMS Ohio

Services: OH, MI, IN, KY, WV, Western PA and Western NY 27,000 square feet

EMS Arkansas

1218 Mary Allen Street Van Buren, AR 72956 1-800-996-6061 fax: (281) 656-2297

Services: AR, OK 50,000 square feet



EMS Texas - Dallas

39324 LBJ Freeway Suite 160 Dallas, TX 75232 1-800-996-6061 fax: (281) 656-2297

Services: DFW, North TX 93,000 square feet



Eastern Architectural Systems EMS: Shutter & Patio

6341 Domestic Ave. Ft. Myers, FL 33912 EAS: 800-686-8902 EMS: 800-432-2204 Local Phone: 239-369-9696

EAS Fax: 239-369-2412 EMS Fax: 561-588-4780 260,000 square feet



TIGRESS

Tigress Outriggers & Gear EMS Machining & Fabrication

2230 4th Ave. North Lake Worth, FL 33461 1-844-740-1260 fax: (954) 524-0441 40,000 square feet