

Architect, specifier &
contractor **Guide to
SAF Panel
Systems.**

ver. 03-18





Architectural Panel Systems for any project...

Wet Seal or Dry, SAF offers both aluminum metal panels and well-known, brand name ACM (Aluminum Composite Material) panel systems. Choose from a large selection of standard colors including metallic finishes, or an almost limitless array of factory-applied custom colors. SAF glazed and rain screen systems come with time-tested securing systems.

By using a pre-engineered system approach, SAF can quickly design and fabricate a panel and extrusion system that is easy to install, enabling smooth work flows on the job site.

ACM quality-to-price ratio is extremely favorable when compared to materials such as marble, granite, brick and pre-cast. Weighing less than 1.5 lbs./sq. ft., installation goes quickly. ACM is fused under tension to resist deflection and provide maximum flatness, structural integrity and stability. It is weather resistant, easy to maintain, deadens sound, and is available with a fire-rated core. ACM is available in 3mm, 4mm and 6mm thicknesses in either a standard polyethylene (PE) or fire resistant (FR) core.

As a mill-direct aluminum buyer and an approved fabricator for major ACM manufacturers, SAF is your most dependable choice for any panel job!

About SAF

With manufacturing plants in Georgia, Tennessee and California, SAF is an integrated supplier of architectural aluminum sheet, aluminum extrusion, aluminum finishing and fabricating services. Visit www.SAF.com to learn how we can impact your business. Or just give us a call and put more than seventy years of family-owned service to work for you.

SAF Wet Sealed (Caulked) Systems

SAF is a manufacturer of caulked, also known as 'wet', panel systems. SAF supplies systems made from Aluminum Composite Materials (ACM), anodized, painted aluminum and a wide ranging variety of other metals such as zinc or stainless. SAF fabricates composite materials by Reynobond®, Alpollic®, Alucobond®, or Alucoil®. SAF is unique because we have our own in-house anodizing and painting facilities. With metal panels choose from smooth, perforated or embossed textures. For aluminum SAF also offers custom color matching using polyvinylidene fluoride (PVDF) coatings with Kynar 500® or Hylar 5000® resins. SAF can provide a manufacturer's 20 Year finish warranty on request.



Series C-3000 ACM, or M-3000 Glazed Plate

The SAF Series 3000 wet sealed (caulked) panel system is designed for better structural integrity and better water/vapor protection. While no panel system is completely impervious to vapor/water penetration, the caulked 3000 system adds an extra level of protection. Additionally, this system is designed for higher wind loads and flatter panels. This system uses continuous “male” and “female” extrusions factory attached along the routed and returned edges of the panel, requiring a progressive installation method. The 3000 system may be manufactured with factory applied stiffeners to prevent “oil-canning.”

The SAF Series 3000 Wall Panel System in conjunction with the use of Alpollic Aluminum Composite Material, when constructed as tested, complies with the South Florida Building Code.

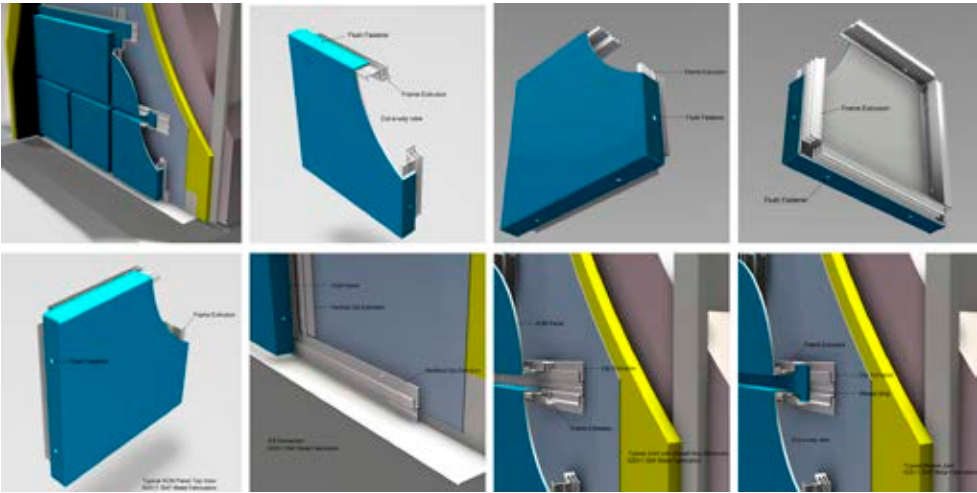
Series NM500 Easy Clip ACM Panel System

SAF Series NM500 easy clip system is our least expensive wet seal (caulked) system. The system uses a series of staggered clip angles along the routed and returned edges of the panel. The clip angles are factory attached in such a manner to allow for non-progressive installation and removal of any panel without disturbing adjacent panels. This system can also be offered with shipped loose clip angles for field attachment to the panels giving installers more flexibility of clip angle location and panel installation. Also, the NM500 system allows the building owners to quickly and easily replace a damaged panel in the future.



SAF "Dry" ACM & Aluminum RainScreen Panel Systems

So called "Dry systems" use gaskets, caulk, extrusions, painted metal strips, and combinations of these, are typically specified when a reveal is desired. These rain screens are a facade, requiring the installer to apply a weather barrier between the panel system and structural wall. SAF offers two kinds of rainscreens: drained-back-ventilated and pressure equalized. Both meet AAMA 509-09 rating standard. Choose SAF C4000 ACM RainScreen panels with dimensions up to 5' x 16' in 3, 4, 6 mm standard polyethylene (PE), or fire-rated core material by Reynobond®, Alpolic®, Alucobond®, or Alucoil®. Or, choose SAF M4000 RainScreen 0.125 Aluminum Panels tested for air and water resistance per ASTM 283 and 331. Because M4000 RainScreen Aluminum Panels are batch,



rather than coil coated, custom colors are more economical than ACM on small and midsize projects.

SAF offers custom color service with a slightly longer lead-time. Designer finishes feature Kynar 500® or Hylar 5000® polyvinylidene fluoride (PVDF) resins. SAF can provide a manufacturer's 20 year finish warranty on request.

Series 4000 RainScreen Panel System

SAF's 4000 Series RainScreen Panels are designed to allow moisture to permeate the outside wall, but subsequently drain through weep holes along the bottom edge of each panel. While any remaining moisture is designed to evaporate, the outside wall is not designed to act as a water/vapor barrier.

SAF RainScreen Panels are a drained and back ventilated, incorporating a strip of composite material in the reveal between each panel (instead of caulk) resulting in a more uniform appearance. The C4000 ACM RainScreen and M4000 Aluminum RainScreen systems come with fabricated panels and shipped-loose "track" extrusions. The fabricated panels include a "frame" extrusion, factory attached to the routed and returned edges of the panel that fits conveniently into the field installed horizontal and vertical "track" extrusions.

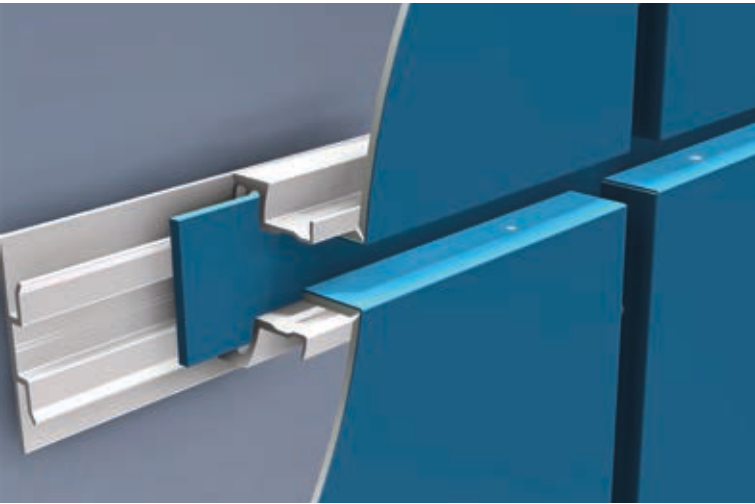
Series C4500 Pressure Equalized RainScreen

SAF Series C4500 Pressure Equalized RainScreen is similar to the C4000 ACM RainScreen. It uses the same "track" and "frame" extrusions, but is manufactured with mitered frame extrusions and additional reinforcement in the corners of the panels. If the panels are manufactured by SAF and are properly installed the resulting rain screen will comply with AAMA 508. Like the 4000, the 4500 comes with fabricated panels and shipped-loose "track" extrusions.

Meet specific architectural requirements with SAF Panels

C4000 ACM RainScreen Panels are certified to Florida HVHZ standards

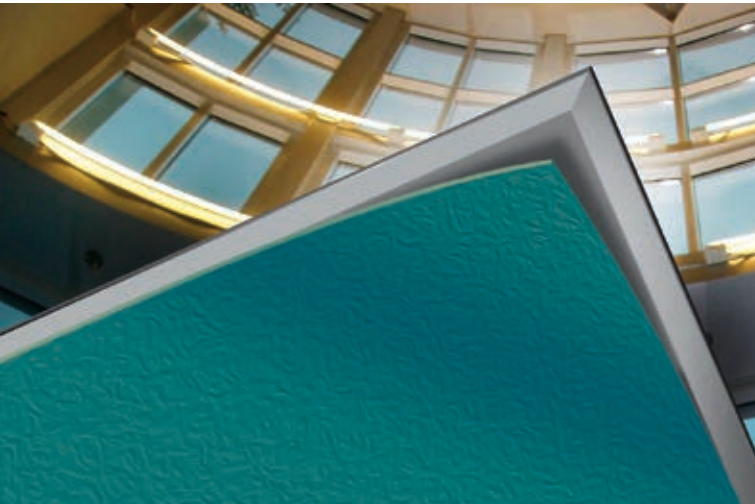
Architects & design/build contractors can specify/install the SAF Series 4000 RainScreen Panel System for Florida commercial building cladding. The drained & back-ventilated ACM Panel system is certified to meet the Florida Building Code and requirements for High Velocity Hurricane Zone (HVHZ) standards. The 4000 ACM Panel RainScreen passed the TAS301 Test Protocol established for Miami-Dade HVHZ which includes TAS 201 (Large Missile); TAS 202 (Air, Water & Structure); TAS 203 (Pressure Cycling). Certifications issued for the SAF C4000 RainScreen system include panels from the three major Aluminum Composite Panel (ACM) manufacturers.



Acoustical "QUIET" option for panels

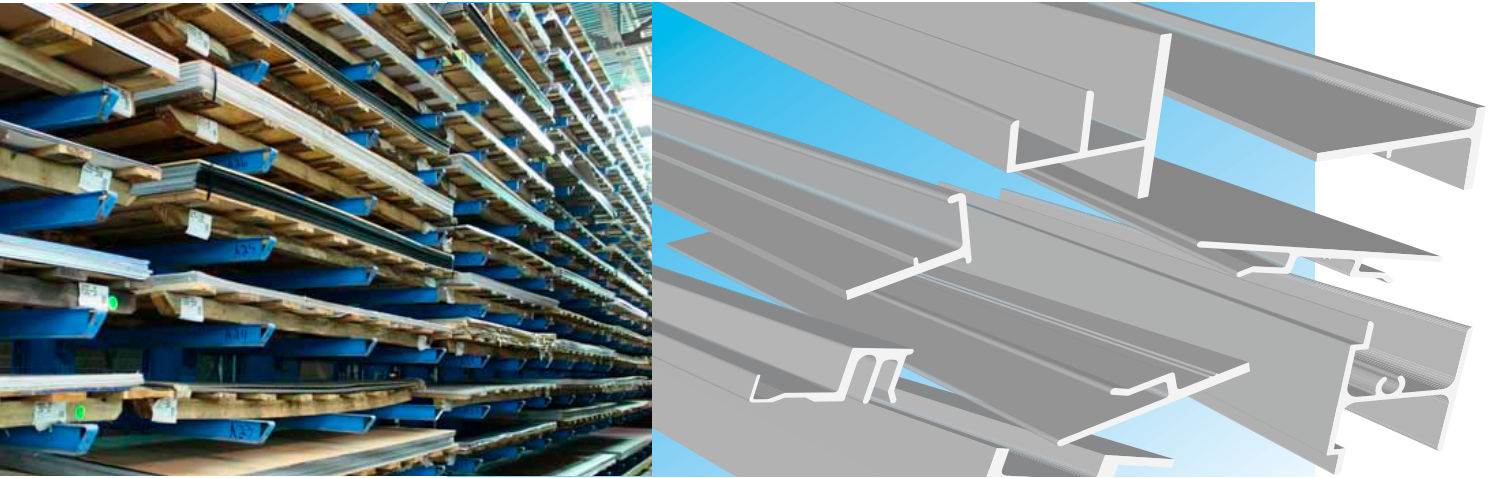
What building interior would not benefit from sound dampening? QUIET is a sound reduction option for interior metal column covers & panels. The material is an acoustical grade thermoplastic that, according to the manufacturer, can dampen acoustic and mechanical resonance noise up to 75%. QUIET can be especially cost-effective for reducing background noise in buildings with open, or high traffic interior areas.

The acoustical lining is made from recycled material, resists mold and mildew, meets both ASTM E-119 and ASTM E-84 Fire ratings, and can aid in certifying projects for LEED.



SAF believes an educated customer is our best customer.

SAF gives the installer control over their own destiny. We provide flat panels and stock length extrusions to experienced fabricators and installers. We also fabricate complex jobs, from submittals to job site deliveries. We even provide classroom instruction for the fabrication of our two most common systems, the Series 4000 and 4500 RainScreen Panel Systems.



SAF E Wall Panel System

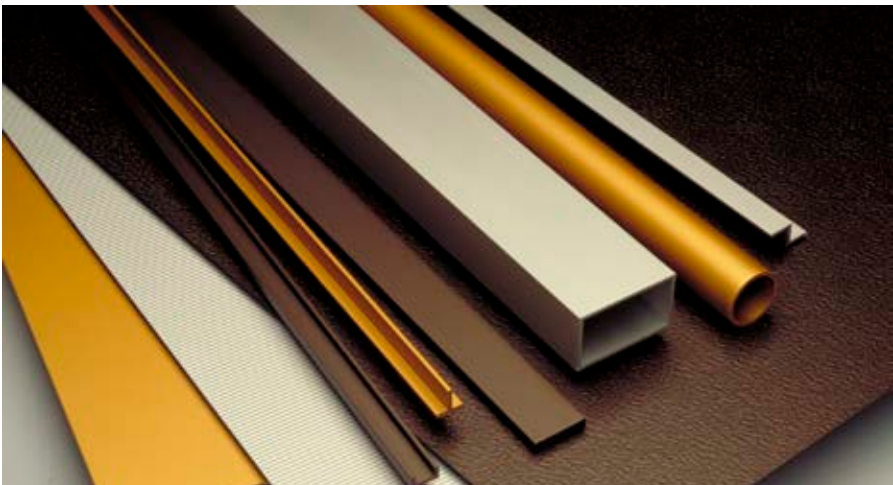
SAF Series E Wall Panel System is made from sheared flat panels and an exterior extruded frame. The panels are not route-and-return panels, so fabrication goes quickly. The frame extrusions are exposed and typically spray coated and the finish will not perfectly match the finish on the panels.

SAF Flat ACM Sheets, Panel Extrusions

Want to save time and money by fabricating your own panels? That's fine by us! SAF is one of America's leading metal distributors. We offer ACM and MCM sheets from all the major manufacturers. We also offer stock length panel extrusions along with all our other extrusions.

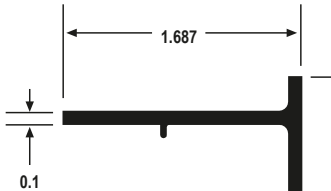
For small orders panel extrusions are normally shipped out the next day. If you order 100 lbs. or more, SAF will cover the freight. We have no minimums.

SAF's extrusions are taped together, wrapped in plastic, and packed in cardboard boxes. Pieces shorter than 8' can even be shipped overnight.



SAF Wet Seal PANEL EXTRUSIONS & Application Guide

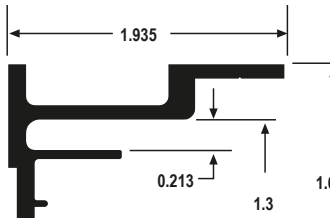
Series 3000 Panel Systems



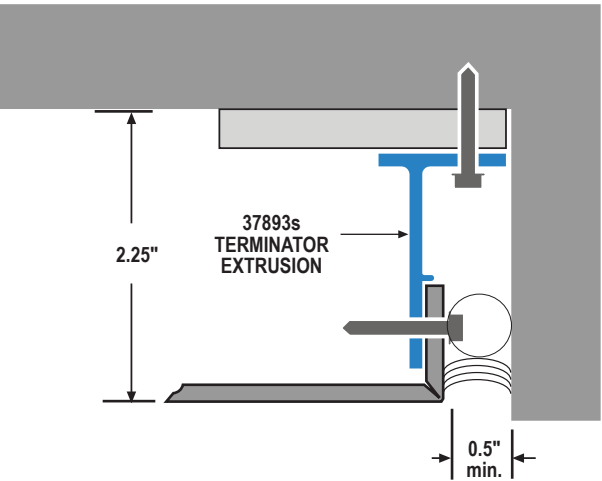
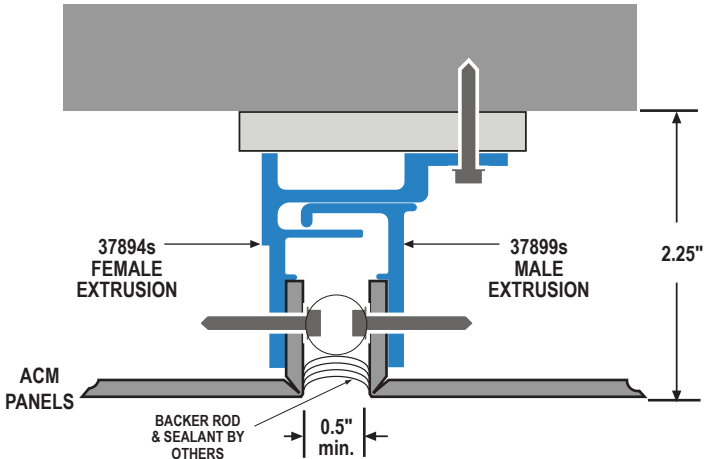
37893s
ACM Terminator
Connector 6063-T6 x 12'
Mill finish



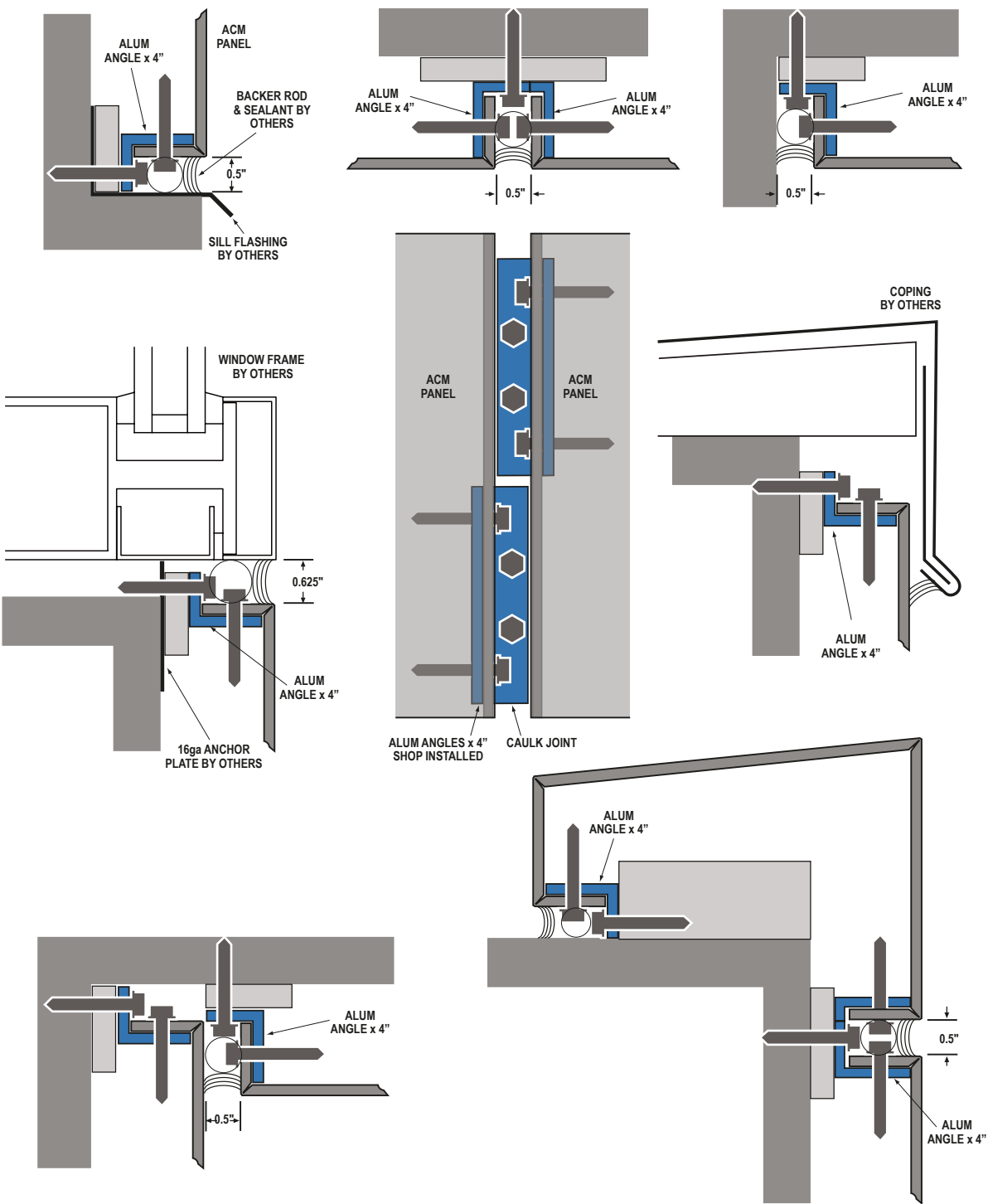
37899s
ACM Male Connector
6063-T6 x 12'



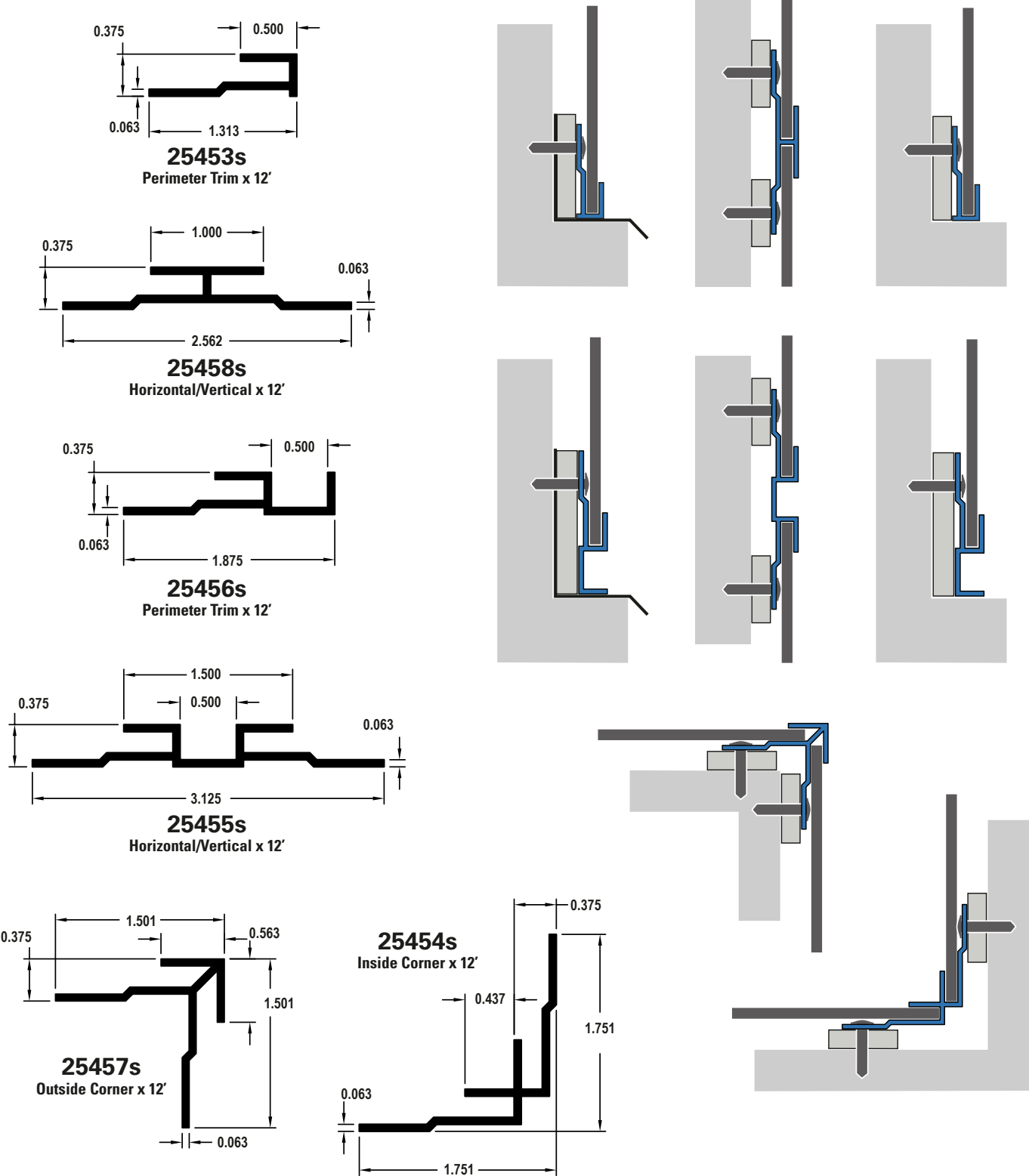
37894s
ACM Female Connector
6063-T6 x 12h'



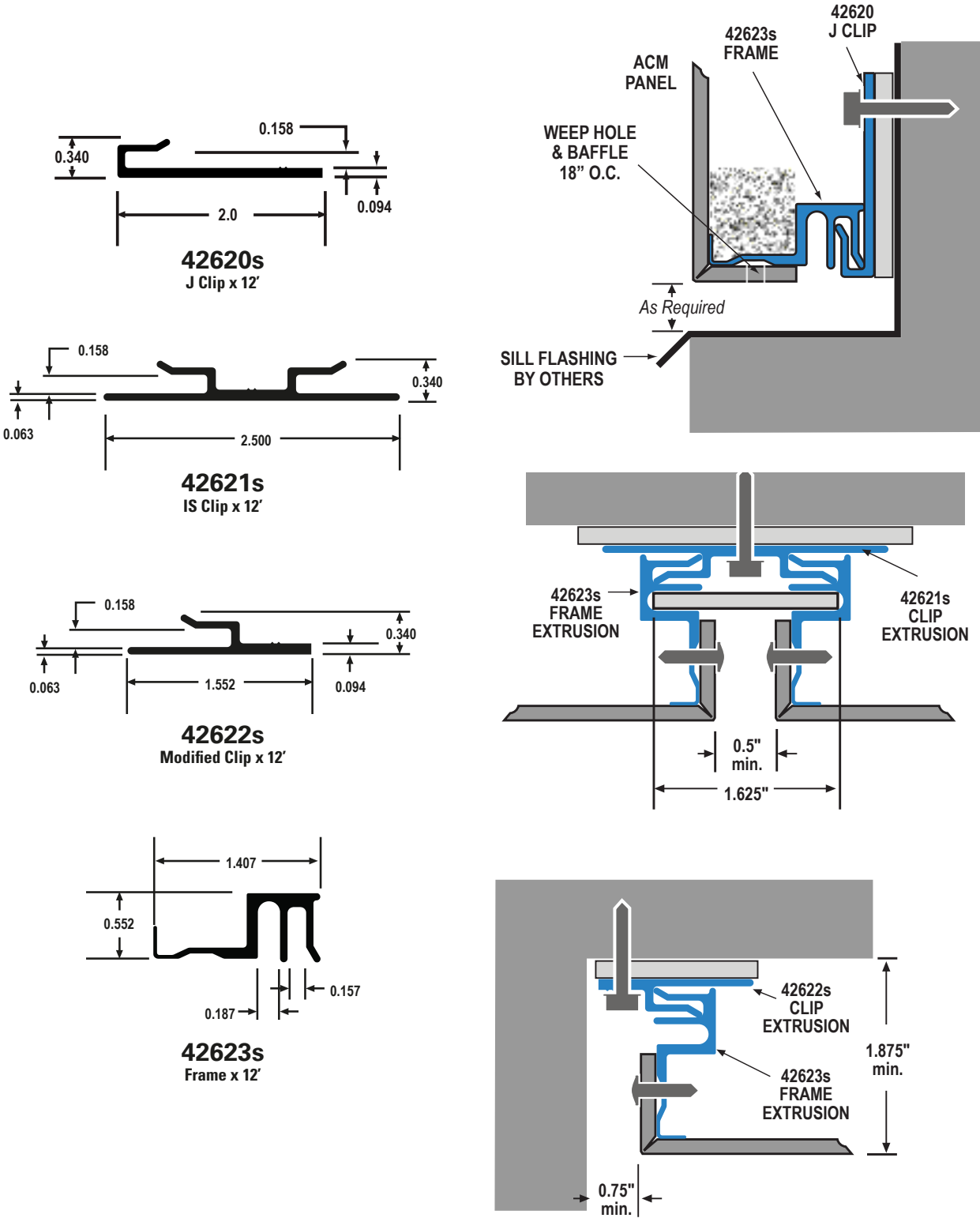
Series NM500 Easy Clip Panel System



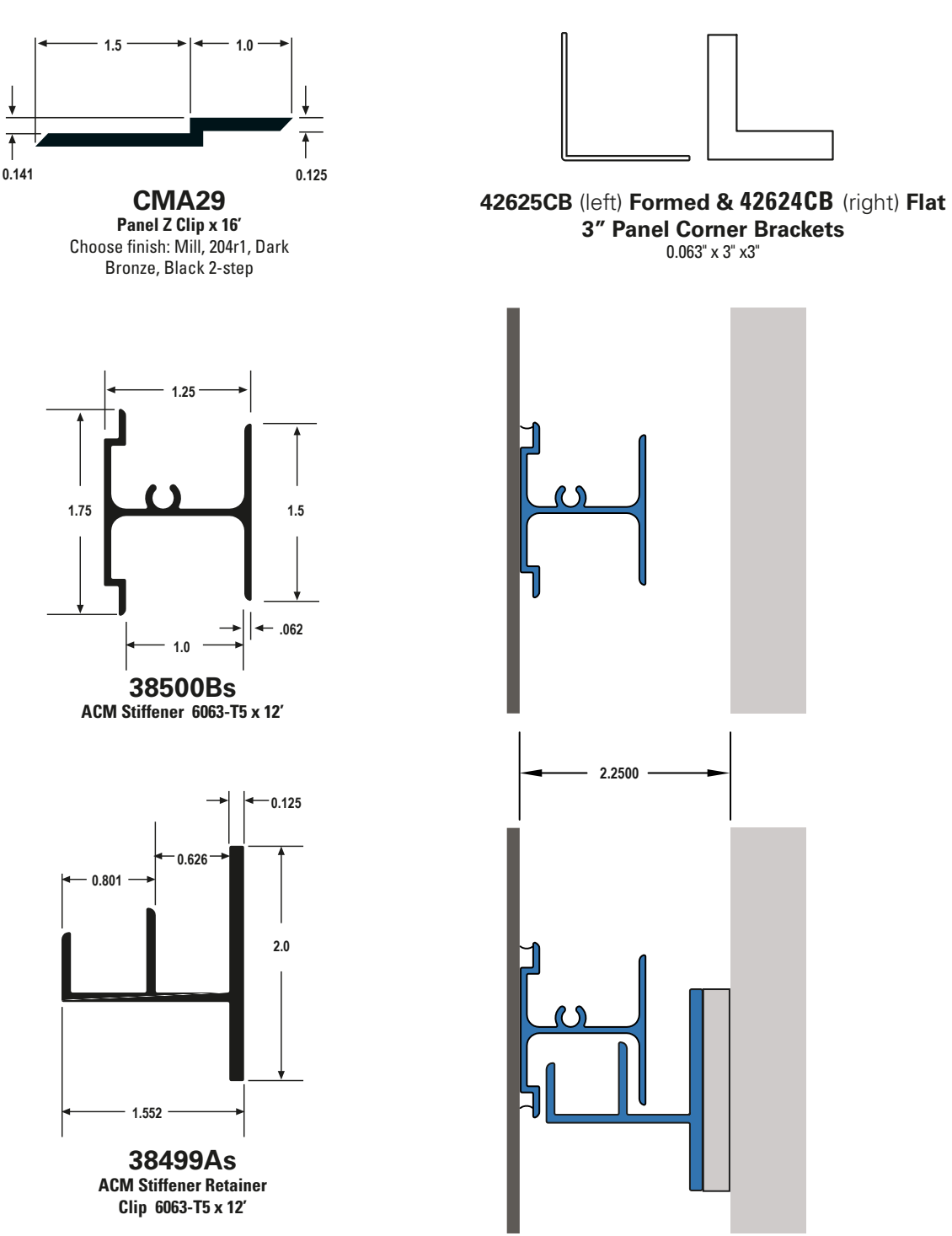
Series E Wall Panel Systems



Series 4000 & 4500 RAINSCREEN Panel Systems



Universal SAF Panel Extrusions



SAF Custom Fabrication

Give us a design challenge and our fabrication and finishing experts will create a solution. SAF's complete inventory, fabricating, anodizing and finishing facilities offer customers unparalleled benefits in speed, quality and enduring aesthetics. Simply provide us with drawings or sketches and we will respond with a complete written proposal and schematic representation of our products for your building, typically in less than one business day.



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SAF Metal Fabrication

Column Covers & Panel Systems, Fabrication Services, Anodized Coatings, PVDF Painted Coatings, Powder Coatings

8370 E. Highway 78 • Villa Rica, GA 30180
Telephone 770-942-1207 • Toll-free 800-241-7429
Fax 877-949-4759

SAF Southern Aluminum Finishing

Architectural Aluminum Extrusions and Flat Sheet
Anodized Coatings, PVDF Painted Coatings, Powder Coatings

1581 Huber Street, N.W. • Atlanta, GA 30318
Telephone 404-355-1560 • Toll-free 800-241-7429
Fax 404-350-0581

SAF Perimeter Systems Division

Innovative Aluminum Architecture: Architectural Cornice Work,
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Telephone 919-775-7353 • Toll-free 800-334-9823
Fax 919-775-5652

SAF West

Column Covers & Panel Systems, Fabrication Services, Anodized Coatings, PVDF Painted Coatings, Powder Coatings

4356 Caterpillar Road • Redding, CA 96003
Telephone 530-244-7518 • Toll-free 866-660-6627
Fax 530-244-7830

SAF Coil Anodizing Division


Coil Anodizing, Slitting, Toll Coating

1417 Poplar Lane • Nashville, TN 37210
Telephone 615-259-2800 • Toll-free 800-241-7429
Fax 615-259-4211


Member

Aluminum Anodizers Council
Metals Service Center Institute
National Glass Association

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 Metals Service Center Institute

Member
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Member