Select Seam ® Narrow Batten Wall Cladding & Select Seam ® Shingle Cladding Application Guide Specifications



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Select Seam ® Narrow Batten is an architectural standing seam metal wall cladding for vertical use. The snap down clip system requires the use of the narrow batten seam cap when used vertically on walls. It provides beautiful aesthetic appeal for wall cladding used in a wide variety of new construction or retrofit applications. The system is required to be installed to over solid substrates.

This Guide Specification is to be used to develop an office master specification or specifications for a project. Edit this guide specification to meet project requirements. Coordinate with other specification sections as required.

Document Coordination: Select framing, substrate, insulation, underlayment, flashing, trim, and clips, and indicate in Drawings; details are available on AEP Span's web site. For projects using several profiles or finishes, schedule panels in this section or in Drawings. Edit "Architect" to reflect the title of the design professional of record.

This document is available in word processing format at www.aepspan.com.

SECTION 07 42 13 – METAL WALL PANELS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes: Prefinished, prefabricated standing seam wall cladding with continuous seams.

Edit list of related sections for project requirements. Section numbers and titles are those recommended in CSI MasterFormat; revise numbers and titles to reflect actual sections in Project Manual.

- B. Related Requirements:
 - 1. Section 05 10 00: Structural Metal Framing.
 - 2. Section 05 40 00: Cold-Formed Metal Framing.
 - 3. Section 05 50 00: Metal Fabrications.
 - 4. Section 07 62 00: Sheet Metal Flashing and Trim
 - 5. Section 07 92 00: Joint Sealants.

1.2 REFERENCES

- A. Reference Standards:
 - 1. ASCE 7: Minimum Design Loads for Buildings and Other Structures.
 - 2. ASTM A653: Steel Sheet, Zinc Coated (Galvanized) or Zinc Iron Alloy Coated (Galvannealed) by the Hot Dip Process.
 - 3. ASTM A792: Steel Sheet, 55 % Aluminum Zinc Alloy Coated by the Hot Dip Process.
 - 4. ASTM C1371: Determination of Emittance of Materials Near Room Temperature Using Portable Emissometers.

- 5. ASTM C1549: Determination of Solar Reflectance Near Ambient Temperature Using a Portable Solar Reflectometer.
- 6. ASTM D523: Specular Gloss.
- 7. ASTM E1592: Structural Performance of Sheet Metal Roof and Siding Systems by Uniform Static Air Pressure Difference.
- 8. ASTM E283: Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen.
- 9. ASTM E331: Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference.
- 10. ASTM E1918: Measuring Solar Reflectance of Horizontal and Low Sloped Surfaces in the Field.
- 11. ASTM E1980: Calculating Solar Reflectance Index of Horizontal and Low Sloped Opaque Surfaces.
- 12. CRRC-1 Method #1: Measuring Solar Reflectance of a Flat, Opaque, and Heterogeneous Surface Using a Portable Solar Reflectometer.
- 13. SMACNA Architectural Sheet Metal Manual.
- 14. US Green Building Council (USGBC): Leadership in Energy and Environmental Design (LEED)

1.3 SUBMITTALS

- A. Product Data, testing, load tables, independent accredited third party IAPMO-UES, ICC-ES, or similar testing.
- B. Shop Drawings:
 - 1. Indicate thickness and dimensions of parts, fastenings and anchoring methods, details and locations of joints, transitions and other provisions necessary for thermal expansion and contraction.
 - 2. Indicate locations of field- and factory-applied sealant.
- C. Samples:
 - 1. Submit two samples, 12 inches long by full panel width, showing proposed metal thickness and seam profile.
 - 2. Submit standard color samples of metal for Architect's selection.
- D. Manufacturer Qualifications.
- E. Installer Qualifications: Submit list of completed projects, with names and contact information for architects and contractors.
- F. Test Reports: Indicating compliance of products with project requirements.

Delete LEED Submittals paragraph and subparagraph below if Recycled Content credit is not required for project. Credit is based on LEED 2009 NC, Schools, and CS rating systems.

Select Seam ® system may support additional credits that do not require LEED submittals demonstrating compliance of metal panels. One such credit is LEED Credit EA Credit 1 – Optimize Energy Performance: cool-pigment finishes reduce heat gain, so may reduce overall building energy use.

- G. LEED Submittals:
 - 1. LEED Credit MR 4 Recycled Content: Product data indicating percentage by weight of post-consumer and post-industrial recycled content for products having recycled content. Include statement indicating costs for each product having recycled content.
- H. Warranty Documentation.

I. Insurance Documentation.

1.4 QUALITY ASSURANCE

- A. Manufacturer Qualifications:
 - 1. Twenty-Five years' experience, minimum, in factory fabrication of metal panels.
 - 2. Manufacturer shall carry \$2,000,000 liability insurance, minimum, for metal panel system.
- B. Installer Qualifications:
 - 1. Three years' experience, minimum, in application of metal roof or wall panels.
 - 2. Five satisfactory projects with metal panel work of similar scope and complexity to Work of this Project.
- C. Testing Agency Qualifications: Agency compliant with ISO/IEC Standard 17025, or an accredited independent agency recognized by the International Laboratory Accreditation Cooperation Mutual Recognition Arrangement or ANSI.
- D. Source Limitations: Obtain all components of the proposed wall cladding system from a single manufacturer including all flat stock material as defined in sheet metal flashing and trim.
 - 1. All pre-finished mechanical fasteners of any type shall be provided by the same manufacturer as supplied the panels in order to maintain a congruent paint finish, color, and paint warranty.
 - 2. The use of different pre-finished mechanical fasteners will invalidate the paint warranty.
- E. Factory roll formed panels: All panels must be factory roll formed and pre-manufactured. On site manufacturing is unacceptable.
- F. Alternate Manufacturers deviating from basis of design: The following criteria must be submitted. Alternate systems will not be considered for approval unless each of these items has been submitted for review a minimum of 10 business days prior to bid opening.
 - 1. Alternate product acceptance is at the sole discretion of the Architect/Owner.
 - a. Submit each item listed under 1.3 & 1.4
 - b. A list of a minimum of five (5) jobs where the proposed alternate material was used under similar conditions. References shall include project date, completion date, project name, size of the project, a copy of the warranty, and contact information for the owner/architect.
 - c. A written statement from the manufacturer stating that they will provide an on-site building inspection to comply with warranty terms by an experienced, full-time employee, as required by the weathertight warranty, if any.
 - d. Proof that the manufacturer has been in business for a minimum number of years equal to the warranty period specified.
 - 2. A product data sheet and ASTM E283 and E331 testing for a standing seam wall cladding system.
 - 3. Acceptance of alternate or equal shall be issued via addendum to all bidding parties in order to ensure equal bidding practices.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Storage and Handling Requirements:
 - 1. Keep panels and accessory items dry.
 - 2. Protect against damage and discoloration.
 - 3. Handle panels with non-marring slings.
 - 4. Support panels to prevent permanent deformation.
 - 5. Store panels above ground, with one end elevated for drainage.
 - 6. Protect panels against standing water and condensation between adjacent surfaces.

- 7. If panels become wet, immediately separate sheets, wipe dry with clean cloth, and keep sheets separate for air-drying.
- 8. Painted panels shall be shipped with protective plastic sheeting or a strippable film coating between panels. Remove strippable film coating prior to installation. Do not allow strippable film coating to remain on panels in extreme heat, cold, or direct sunlight or other UV source.
- 9. Do not allow panels to contact treated lumber.

1.6 WARRANTY

For projects less than 1000 feet (about a 1/4 mile) from salt water or industrial or other corrosive applications, consult your AEP Span Representative. A high-build primer of 0.8-1.2 mils or other coating system may be recommended and warranty developed specifically for job site conditions. See section 2.2 A 4 for paint system and applicable finish warranties

- B. Manufacturer's Warranty: Manufacturer's standard **[10][15][20][25][30][40]** year performance warranty, stating the following:
 - 1. Architectural fluorocarbon finish:
 - a. Will be free of fading or color change in excess of 5 Hunter delta-E units as determined by ASTM D2244-02.
 - b. Will not chalk in excess of numerical rating of 8 when measured in accordance with standard procedures specified in ASTM D4214-98 method D659.
 - c. Will not peel, crack, chip, or delaminate.
 - 2. Metal substrate will not rupture, fail structurally, or perforate.
- C. Installer's Warranty: Warrant panels, flashings, sealants, fasteners and accessories against defective materials and/or workmanship, covering repairs required to maintain panels watertight and weatherproof with normal usage for two years following Project Substantial Completion date.
 1. Furnish written warranty, signed by installer.

PART 2 - PRODUCTS

2.1 SYSTEM DESCRIPTION

- A. Products::
 - 1. AEP Span, a Division of ASC Profiles, LLC.; Select Seam ® Narrow Batten Wall Cladding & Select Seam ® Shingle Cladding

Select one of two options below. If listing multiple manufacturers above, chose first option. If choosing second option, edit section number and title to match actual Division 01 section where substitutions are controlled.

- B. Substitution Limitations: [Substitutions will not be considered.] [Substitutions will be considered in accordance with Section 01 25 00 "Substitution Procedures" and Section 1.4 G of this specification.]
- C. Performance Criteria

AEP Span tests its panels for wind uplift using ASTM E1592, which provides a rigorous evaluation for metal panels.

Generally, do not specify both performance and panel thickness. If using performance method, consult structural engineer and edit below. For panel thickness method, see wind resistance tables at <u>www.aepspan.com</u>, delete paragraph below, and retain a thickness in "Panel" article.

- 1. Wind Uplift: [As required by [ASCE 7] <Insert governing code>] <Insert required load>.
 - a. Panel system shall be ASTM E1592 tested under the supervision of an ANSI or ISO/IEC accredited laboratory and the laboratory shall issue the test report.

Coordinate performance requirement with specified panels. Retain air infiltration and water penetration requirements below for Select Seam ® Narrow Batten.

- 1. Air Infiltration: <0.02 cfm per linear foot of joint when tested in accordance with ASTM E 283 at static test pressure differential of 20.0 psf.
- 2. Water Penetration Under Static Pressure: No leakage through panel joints when tested in accordance with ASTM E 331 at static test pressure differential of 25.0 psf.
- 3. Thermal Movements: Accommodate thermal movement without buckling, joint opening, overstressing components, failure of connections, or other detrimental effects, through the following temperature changes:
 - a. 120 degrees F, ambient.
 - b. 180 degrees F, material surface.
- D. Sustainability Characteristics:

AEP Span panels, in their standard sheet steel, contain approximately 25.5 percent post-consumer recycled content and 6.8 percent pre-consumer recycled content, for a total 28.9 percent recycled content as calculated for this LEED credit. Higher percentages are available if specified.

- 1. Recycled Content: [28.9] [50] [75] percent post-consumer recycled content[, calculated according to LEED Credit MR 4].
- 2. Energy Performance:

If "cool" reflective pigments are required, retain one of the three subparagraphs below. Check performance by color: some colors perform better than examples given.

- a. Solar reflective index (SRI): Not less than < Insert requirement > per ASTM E1980.
- b. Reflectance and Emissivity:
 - 1) Solar Reflectance: Not less than [**0.25**]<**Insert requirement**> per ASTM test methods C1549 or E1918, or CRRC-1 Method #1.
 - 2) Thermal Emissivity: Not less than [0.75]<Insert requirement> per ASTM C1371.

If project is subject to Federal Buy American provisions, retain paragraph below. AEP Span products comply with requirement.

E. Manufacturing Characteristics: Provide panels complying with provisions of Buy American Act 41 U.S. C 10a - 10d.

2.2 PANELS

These products must be installed over a solid substrate. Please consult an AEP Span representative for design assistance.

- A. Panels: AEP Span, a Division of ASC Profiles, LLC.; Preformed Metal Standing Seam Wall Cladding Select Seam ® Narrow Batten.
 - 1. Material: Steel conforming to ASTM A792.

Select gauge according to AEP Span's performance tables, and applicable loads. 24 and 22 gauge panels are standard. Contact AEP Span for information regarding copper or aluminum.

a. **[24 Gauge][22 Gauge]**: Yield strength 50,000 psi; with aluminum-zinc alloy coating conforming to ASTM A792, Class AZ50.

If panels are specified by performance, retain subparagraph below and delete subparagraph above.

- b. Thickness and yield strength as required for performance indicated; with aluminumzinc alloy coating conforming to ASTM A792, Class AZ50 For projects with multiple profiles or varied combinations of profiles, rib patterns and finishes, show on Drawings.
- 2. Panel Width and Pattern:
 - a. 12-inch panel width, [standard striated pattern] [optional flat pan] [optional stucco embossed]
 - b. 16-inch panel width, [standard striated pattern] [optional flat pan] [optional stucco embossed].



Flat metal surfaces will display waviness commonly referred to as "oil canning." This is caused by steel mill tolerances and is a characteristic, not a defect. Panels are factory correctively-leveled to minimize the occurrence of oil canning. Striations help to reduce the appearance of oil canning.

- 3. Panel Rib Height:
 - a. Narrow batten cap 1-inch high x 3/8-inch wide

If multiple finishes are required, retain applicable finishes.

4. Panel Finish: Provide primer and top finish coat on exposed faces; provide primer and backer coat on concealed faces of panels.

Choose one or more of the following exterior finishes. Delete Remaining

- a. [specify for <u>20,22&24 gage</u> & include 40 year Dura Tech paint warranty language in Section 1.6] Dura Tech[®] 5000: Polyvinylidine Fluoride, full 70 percent Kynar 500[®] or Hylar 5000[®], consisting of a baked-on 0.15-0.25 mil corrosion resistant primer and a baked-on 0.70-0.80 mil finish coat with a specular gloss of 8 to 15 when tested in accordance with ASTM D523 at 60 degrees.
- b. [specify when <u>1000'</u> from a body of water & include 15 year Marine warranty in Section 1.6] Dura Tech 5000/mx Marine 15 Year: Polyvinylidine Fluoride, full 70 percent Kynar 500[®] or Hylar 5000[®], consisting of a baked-on 0.70-0.80 mil corrosion resistant primer and a baked-on 0.70-0.80 mil finish coat with a specular gloss of 8 to 15 or 15 to 25 when tested in accordance with ASTM D523 at 60 degrees.
- c. [specify when <u>1000'</u> from a body of water & include 20 year Marine warranty in Section 1.6] Dura Tech 5000/mx Marine 20 Year: Polyvinylidine Fluoride, full 70 percent Kynar 500[®] or Hylar 5000[®], consisting of a baked-on 0.70-0.80 mil corrosion resistant primer, a baked-on 0.70-0.80 mil finish coat and a baked-on 0.40-0.50 clear coat with a specular gloss of 8 to 15 or 15 to 25 when tested in accordance with ASTM D523 at 60 degrees.
- d. [specify for <u>Vintage</u> Paint & include 20 year warranty in Section 1.6 Note: Vintage is only available in 24GA and must be more than 1 mile from a salt body of water]

Vintage[®]: Proprietary, semi-transparent, baked-on coating over TruZinc[®] metallic coated steel with an aged appearance, with a specular gloss of 20 to 40 when tested in accordance with ASTM 523 at 60 degrees.

e. [specify for <u>Rawhide</u> paint & include 20 year warranty in Section 1.6] Rawhide: Textured paint consisting of a baked-on 0.20-0.30 mil corrosion resistant primer and a baked-on 0.80-0.90 mil textured finish coat with a specular gloss of 2 to 6 when tested in accordance with ASTM 523 at 60 degrees.

Zincalume Plus panels have a thin, clear acrylic topcoat, recommended for uniform weathering of unpainted Zincalume panels. Zincalume carries a 25 year warranty and is available in 24, 22, and 20 GA.

- f. ZINCALUME[®] Plus protective coating for unpainted 55% aluminum-zinc alloy metallic coating.
- g. DuraTech[®] 5000 Dimensional Prints: Polyvinylidine Fluoride, full 70 percent Kynar 500 or Hylar 5000, consisting of a baked-on 0.15-0.25 mil corrosion resistant primer, a baked-on solid base coat with one or two patterned finish coats having a total dry film thickness of 1.10 to 1.40 mil and specular gloss of 25 to 35 when tested in accordance with ASTM D523 at 60 degrees.

Custom colors are available on orders of 3,000 linear feet or more. Consult an AEP Span representative for additional information.

h. Panel Color: [As scheduled.][As selected from manufacturer's full range.]<Insert color.>

Custom colors are available on orders of 3,000 linear feet or more. Consult an AEP Span representative for additional information.

- i. Panel Color: [As scheduled.][As selected from manufacturer's full range.]<Insert color.>
- 5. Seam Sealant: Factory applied high-grade butyl mastic sealant within the confines of narrow batten, designed to seal against adjacent male panel legs.

2.3 FRAMING AND SUBSTRATES

Edit framing and substrates to reflect Project requirements. Coordinate section numbers and titles.

- A. Secondary Framing: See Section 05 40 00 "Cold-Formed Metal Framing".
- B. Sheathing: See Section 06 16 00 "Sheathing".

2.4 CLIPS AND FASTENERS

Clip selection to be determined based upon panel framing and substrate and attachment requirements. See AEP Span installation guidelines for clip types at www.aepspan.com.

Clips: 24 gauge coated with minimum AZ-50 Zinc-Aluminum coating per ASTM A792. Retain bearing plate if required for compressible substrates such as rigid insulation.

- A. Bearing Plate: **22ga minimum** See Metal Cons**truction Assoc**iation Technical Bulletin "Fastener Selection".
- B. Fasteners: [As recommended by manufacturer for performance indicated.][Manufacturer's standard #10 by 1 inch long self-drilling, pancake head screws for metal; noncorrosive base material, or appropriate wood screws]

2.5 ACCESSORIES

- A. Trims and Flashings: Material, metal thickness, and finish to match panels. Profiles indicated in Drawings.
 - 1. Provide manufacturer's standard accessories and other items essential to completeness of standing seam wall cladding installation.
- B. Panel Penetration Flashings: As recommended by panel manufacturer; designed to provide sufficient movement to prevent creation of points of fixity at penetrations.
- C. Sealant for Field Application: [high grade non-curing butyl or curing urethane sealant as recommended by panel manufacturer. Do not use sealant containing asphalt.] [See Section 07 92 00 "Joint Sealants".]

2.6 FABRICATION

- A. Fabrication, General:
 - 1. Unless otherwise shown on Drawings or specified herein, fabricate panels in continuous lengths and fabricate flashings and accessories in longest practical lengths. Contact AEP Span if panel lengths required over 60 feet.
 - 2. Panels shall be factory correctively-leveled.
- B. Panels:
 - 1. Provide panels in full length from top of wall to bottom of wall for Select Seam ® Narrow Batten Wall Cladding or in selected shingle length for Select Seam ® Shingle Cladding.
 - 2. Wall panels shall have flush horizontal and vertical surfaces to facilitate sealing at terminations. Panel configurations which create voids and requiring supplemental closure devices shall not be considered acceptable.
 - 3. Engineer panels to use concealed anchors that permit expansion and contraction, except at top of wall.
- C. Fabrication Tolerances:

See Metal Construction Association Technical Bulletin "Oil Canning" for more information. This bulletin is available at www.aepspan.com.

1. Flat metal surfaces will display waviness commonly referred to as "oil canning". This is caused by steel mill tolerances and is a characteristic, not a defect, of panels manufactured from light gauge metal. Panels are factory correctively-leveled to minimize the occurrence of "oil canning". As such, "oil canning" will not be accepted as cause for rejection.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verification of Conditions: With Installer present.
 - 1. Examine conditions and substrates on which metal panels are to be installed. Structural support or substrate shall be flat and plumb to avoid panel stresses and distortion.
 - 2. Prior to starting work, correct defects.
- B. Field Measurements:
 - 1. Coordinate field measurements and fabrication schedule with construction progress.
 - 2. Field measure prior to fabrication. Show recorded dimensions on shop drawings, including locations of shop-fabricated openings.

- 3. If field measurements differ from drawing dimensions, notify Architect prior to fabrication.
- C. [Framing][Substrate] Tolerances: Deviations from flat plane shall not exceed the following.
 - 1. 1/4 inch in 20 feet.
 - 2. 1/2 inch across building elevation.
 - 3. 1/8 inch in 5 feet.

3.2 PREPARATION

A. **[Secondary Framing][Substrate and Underlayment]**: Install according to approved shop drawings and metal panel manufacturer's recommendations.

3.3 INSTALLATION

- A. Select Seam ® Narrow Batten Wall Cladding:
 - 1. Panels and Trim: Comply with manufacturer's instructions for assembly, installation and erection for weather tight installation.
 - 2. Install according to approved shop drawings.
 - 3. Install panels in accordance with manufacturer's instructions and recommendations. Anchor securely in place using clips and fasteners spaced in accordance with manufacturer's recommendations for design wind load criteria.
 - 4. Comply with methods and recommendations of SMACNA Architectural Sheet Metal Manual for flashing configurations required.
 - 5. Discrepancies between job site conditions and shop drawings shall be brought to the attention of the Architect for resolution.
 - 6. Cutting and Fitting:
 - a. Cut panels neat, square, and true with shearing action cutters. Torch or power saw cutting is prohibited.
 - b. Openings 6 inches and larger: Shop fabricate and reinforce to maintain original load capacity.
 - c. Openings less than 6 inches: Field cutting is acceptable.
 - 7. Dissimilar Metals or Materials:
 - a. Where panel or trim may come in contact with dissimilar metals or treated lumber, fabricate transition to facilitate drainage and minimize possibility of galvanic action. Galvanic action can cause panels and trim to fail prematurely.
 - b. At points of contact with dissimilar metal or treated lumber, coat panel and trim with protective paint or separate materials with a weatherproof underlayment.
 - c. Direct contact or run-off from CCA, ACQ, CA, or other treated lumber (outdoor wood) or fire retardant impregnated or treated wood shakes or siding can cause panels and trim to fail prematurely. Avoid contact with these materials.
 - 8. Panels shall be installed in a continuous length vertically from the top of the wall to the bottom
- B. Select Seam ® Shingle Cladding:
 - 1. Panels and Trim: Comply with manufacturer's instructions for assembly, installation and erection for weather tight installation. Install according to approved shop drawings.
 - 2. Install panels in accordance with manufacturer's instructions and recommendations. Anchor securely in place using clips and fasteners spaced in accordance with manufacturer's recommendations for design wind load criteria
 - 3. Comply with methods and recommendations of SMACNA Architectural Sheet Metal Manual for flashing configurations required.
 - 4. Discrepancies between job site conditions and shop drawings shall be brought to the attention of the Architect for resolution.

- 5. Install panels in lengths specified (panels shall be ordered at the desired visible length + 4" to account for the lap and hem) in a shingle fashion starting from the bottom and working towards the top of the wall. Each panel will interlock with the adjacent via clips.
- 6. Utilizing joggle cleats, secure the adjoining length panels in a shingle fashion to form a continuous length to the top of the wall condition.
- 7. Once all panels are installed with joggle cleats in place and secured so that panels form a solid vertical panel run, secure and terminate at top of wall
- 8. Install **FULL LENGTH** batten seams from top of wall to bottom of wall, with no breaks in the batten seam between panel/shingle end laps, Run battens in longest length possible so as to cover all panels in a continuous run as if they were one solid panel run.
- C. Accessories: Install trims, flashings, and wall cladding specialties according to Drawings and manufacturer's recommended details.
- D. Sealant Installation: Sealant shall be factory applied in the batten cap.
 - 1. Provide airtight and waterproof installation.

3.4 CLEANING

AEP Span does not recommend touch-up painting of damaged surfaces (minor scratches, etc.) due to fading and weathering differences of the touch-up paints in comparison to factory applied paint systems.

- A. Repairs:
 - 1. Touch up paint is not required for panels with scratches that do not expose metal.
 - 2. Panels or flashings with finish damage exposing metal or with substrate damage shall be replaced.
- B. Cleaning and Waste Management: [See Division 01 Section "Construction Waste Management and Disposal" for recycling requirements.]
 - 1. At completion of each day's work and at work completion, sweep panels, flashings, and gutters clean. Do not allow fasteners, cuttings, filings, or scraps to accumulate.
 - 2. Clean exposed surfaces of work promptly after completion of installation.

3.5 PROTECTION

A. Protect Work as required to ensure that cladding will be without damage at Final Completion.

END OF SECTION

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Hylar 5000® is a registered trademark of Ausimont USA, Inc.

Kynar 500® is a registered trademark of Arkema Inc.

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