

EFFECTIVE January 1, 2020 AND SUPERSEDES ALL PREVIOUS VERSIONS.

SECTION 07 25 00
WEATHER RESISTIVE BARRIER

SIGA MAJVEST® 700 SOB
BLACK UV STABLE

(Specifier Note: The purpose of this guide specification is to assist the specifier in correctly specifying high-performance weather barrier products and execution. The specifier needs to edit these guide specifications to fit the needs of each specific project. Contact a SIGA applications advisor to assist in appropriate product selections. Throughout the guide specification, there are Specifier Notes to assist in the editing of the file. The term Architect is used throughout these guide specifications and may be revised to read “Design Professional,” “Engineer,” “Owner” or other appropriate designation as required for specific projects.

References have been made within the text of the specification to MasterFormat 2004 Section numbers and titles, specifier need to coordinate this numbers and titles with sections included for the specific project. Brackets []; “AND/OR”; and “OR” have been used to indicate when a selection is required.

This guide is for commercial/residential applications using a UV-resistant water-resistive barrier specifically designed for open joint cladding systems which allows direct UV exposure at the open joints. Joints limited to 2 inch maximum and no more than 40% of the total area. This sheet membrane with integrated tape, has an acrylate coating applied on a polyester fleece, which provides long term performance against UV degradation while protecting the walls from liquid water intrusion. Its high permeability makes it an ideal water-resistive for energy efficient construction.

This weather barrier is specifically designed for above grade, vertical wall surfaces where the wall assembly may consist of any of the following: exterior gypsum sheathing, exterior plywood sheathing, oriented strand board (OSB) sheathing, stud walls with no sheathing, and masonry).

(Specifier Note: For wall systems anticipating prefabrication and installation of weather barrier as a panelized design: contact SIGA applications advisor for assistance and consult the SIGA Manual www.siga.swiss).

PART 1 - GENERAL

1.1 SECTION INCLUDES

(Specifier Note: “weather barrier assembly” has been used throughout the document. A weather barrier is a weather-resistant membrane for vertical building envelope protection that will provide moisture resistance while maintaining moisture-vapor permeability. The assembly consists of the following components).

- A. Mechanically attached Weather resistive and air barrier (SIGA Majvest 700 SOB).
- B. Accessories.
 - a. Seam and joint tapes (SIGA Wigluv® black).
 - b. Flashing Tapes (SIGA Wigluv black).

- c. Fasteners .
- d. Adhesive/Primer (SIGA Dockskin®).

1.2 RELATED SECTIONS

(Specifier Note: Carefully and completely edit " RELATED SECTIONS" below to coordinate with other sections being included in the project manual).

- A. Section 07 26 00 - Vapor Retarder; requirement that vapor retarder materials are installed in accordance with industry standards.
- B. Section 07 65 00 – Flexible flashing tapes.

1.3 REFERENCE

- A. ASTM International (ASTM):
 - 1. ASTM D882 - Test Method for Tensile Properties of Thin Plastic Sheeting.
 - 2. ASTM D1970 - Specification for Self-Adhering Polymer Modified Bituminous Sheet Materials Used as Steep Roofing Underlayment for Ice Dam Protection.
 - 3. ASTM D3330 - Test Method for Peel Adhesion of Pressure-Sensitive Tape.
 - 4. ASTM D5034 - Test Method for Breaking Strength and Elongation of Textile Fabrics.
 - 5. ASTM E84 - Test Method for Surface Burning Characteristics of Building Materials.
 - 6. ASTM E96 - Test Methods for Water Vapor Transmission of Materials.
 - 7. ASTM E1354 - Standard Test Method for Heat and Visible Smoke Release Rates for Materials and Products Using an Oxygen Consumption Calorimeter
 - 8. ASTM E2556/E2556M - Standard Specification for Vapor Permeable Flexible Sheet Water-Resistive Barriers Intended for Mechanical Attachment
- B. American Association of Textile Chemists and Colorists (AATCC): AATCC 127 - Test Method for Water Resistance: Hydrostatic Pressure Test.
- C. International Code Council Evaluation Service, Inc. (ICC-ES): ICC-ES AC38 - Acceptance Criteria for Water-Resistive Barriers.
- D. American Architectural Manufacturers Association (AAMA).
 - 1. AAMA 711-13 - Specification for Self Adhering Flashing Used for Installation of Exterior Wall Fenestration Products.

1.4 SUBMITTALS

- A. Refer to Section **[01 33 00 Submittal Procedures]** **[insert section number and title]**.
- B. Product Data: Submit manufacturers' current product data sheets, details and installation instructions for the water-resistive vapor permeable and drainage matrix membrane components and accessories.
- C. Manufacturer Instructions: Submit manufacturer's written installation instructions.

1.5 QUALITY ASSURANCE

- A. Qualifications.
 - 1. Installer shall have experience with installation of commercial sheet good weather barrier assemblies.
 - 2. Installation shall be in accordance with weather barrier manufacturer's installation guidelines and recommendations.
 - 3. Source Limitations: Provide air and weather barrier, and accessory materials produced by single manufacturer.
 - 4. Whenever possible, installer shall undergo an onsite SIGA installation training before the installation of SIGA products begin. Contact SIGA to set up a free installation training.
- B. Compliance with Standards: Products shall meet or exceed the requirements of AATCC 127, ASTM D882, ASTM E84, ASTM E96, ASTM D5034, ASTM D1970, and ASTM D3330.
- C. Mock-Up: Install a mock-up using approved weather barrier system including membrane, flashing, joint and detailing tape and related weather barrier accessories according to weather barrier manufacturer's current printed instructions and recommendations.
 - 1. Mock-up Size: **[10 feet by 10 feet]** **[insert size]**, in a location on the building.
 - 2. Mock-up Substrate: Match wall assembly construction, including window opening and typical trough wall penetrations.
 - 3. Mock-up may remain as part of the work.
 - 4. Arrange for manufacturer's designated representative prior to weather barrier system installation, to perform required mock-up visual inspection and analysis as required for warranty.
- D. Pre-installation Meeting.
 - 1. Refer to Section **[01 31 19 Project Meetings]** **[insert section number and title]**.

(Specifier Note: A Pre-installation meeting is mandatory for projects where the SIGA Weatherization Products 10 Year Limited Warranty is specified and recommended for all projects using SIGA Majvest® 700 SOB. Requirement may be DELETED if SIGA Warranty is not specified).

- 2. Convene a pre-installation conference, a minimum of two weeks prior to start of weather barrier installation. Attendees shall include Contractor, Architect, installer, and weather barrier manufacturer's designated field representative.
- 3. Review all related project requirements and submittals, status of substrate work and preparation, areas of potential conflict and interface, availability of weather barrier system materials and components, installer's training requirements, equipment, facilities and

scaffolding. Coordinate methods, procedures and sequencing requirements for full and proper installation, integration and protection.

4. Review requirements for sequencing of installation of weather barrier system with installation of windows, doors, louvers and metal flashings to provide a weather-tight barrier system. Schedule installation of exterior cladding within three months of weather barrier system installation.

1.6 DELIVERY, STORAGE, AND HANDLING.

- A. Deliver materials to Project site in original packages with seals unbroken, labeled with the material Manufacturer's name, product, date of manufacture, and directions for storage.
- B. Store materials in their original undamaged packages in a clean, dry, protected location and within temperature range required by material manufacturer. Protect stored materials from direct sunlight.
- C. Handle materials in accordance with material manufacturer's recommendations.
- D. Packaging Waste Management:
(Specifier Note: DELETED section below if packaging waste management doesn't need to be specified).
 1. Separate and recycle waste packaging materials in accordance with Section 01 74 19 - Construction Waste Management and Disposal.
 2. Remove waste packaging materials from site and dispose of packaging materials at appropriate recycling facilities.

1.7 WARRANTY.

- A. Manufacturer Warranty: Submit manufacturer's standard 10-year warranty for weather barrier against defects in materials.

PART 2 - PRODUCTS

(Specifier Note: Product Information is proprietary to SIGA Majvest® 700 SOB. If additional products are required for competitive procurement, contact SIGA applications advisor for assistance).

2.1 MANUFACTURER

- A. Manufacturer, Basis-of-Design: SIGA Cover Inc., 1229 N. North Branch Street, Suite 310, Chicago, Illinois 60642 ; +1-855-733-7442; www.siga.swiss.

2.2 MATERIAL

- A. Basis of Design : Water-Resistive Barrier Mechanically Attached.
 1. Vapor permeable water resistive barrier with a special waterproof acrylate coating on a tear-resistant polyester fleece. It is designed for use as a water resistive barrier in an open joint wall cladding system to protect the structure from the damaging effects of moisture infiltration and UV light.
- B. Performance Characteristics.
 1. Water Vapor Transmission per ASTM E96:
 - a. Method A/ desiccant method: 107 US perms (6073 Ng/Pa.m².s).

2. Water Penetration Resistance : >2 hours when tested in accordance with ICC-ES AC308-2016 §4.2.2
3. Basis Weight: 0.88 oz/ft² (270 g/m²).
4. Thickness : 0.02" (0.5 mm).
5. Tensile Breaking Strength per ASTM D 5034:
 - a. 120 lbf MD (531 N).
 - b. 102 lbf CD (454 N).
6. Surface Burning Characteristics : Class A, when tested in accordance with ASTM E84:
 - a. Flame Spread: 5.
 - b. Smoke Developed: 350.
7. Ultra Violet Light Exposure Limit: Unlimited in open facings featuring joints up to 2" (50mm) wide that cover no more than 40% of the surface.

2.3 ACCESSORIES

- A. Joint Tape: Pressure sensitive, with acrylic based adhesive.

1. SIGA Wigluv® black 2.4" (60mm), or wider 4" (100mm), 6" (150mm).

- B. Fasteners

(Specifier Note: Fasteners are dependent upon substrate construction. More than one type of fastener may be required on a single project, REVIEW construction conditions and DELETE fasteners that are unnecessary).

1. (Specifier Note: Recommended Fasteners for Steel Frame construction) 1 ¼ " (31.75 mm) galvanized or corrosion-resistant screws with caps or gasketed metal washers.

AND/OR

2. (Specifier Note: Recommended Fasteners for Wood, Insulated Sheathing Board, Exterior Gypsum).
 - a. Galvanized or corrosion-resistant nails with caps or gasketed metal washers.
 - b. Plastic cap staples.

AND/OR

3. (Specifier Note: Recommended Fastening to Masonry) 1 ¾ " (44 mm) minimum Masonry tap-con fasteners with caps or gasketed metal washers.

- C. Flashing

(Specifier Note: Flashing is dependent upon construction conditions. DELETE flashing products that are unnecessary and inappropriate for specific project).

1. SIGA Wigluv black 2.4" (60mm), or wider 4" (100mm), 6" (150mm) : Black flexible membrane flashing materials for window openings and penetrations, base joint connections, and at transitions between different assembly materials.

- D. Sealants.

(Specifier Note: Sealants are not required with the SIGA system but they could be recommended by the window manufacturer. If it's the case sealants compatible with weather barrier assembly may be specified in this section or in Division 07 sealants section).

1. Refer to Section [07 92 00 Joint Sealants] [insert section number and title].
2. [other]

E. Primer.

(Specifier Note: Product listed below is only recommended for inclusion when required, and should be EDITED for specific project. When using SIGA Wigluv black, primer will be required in concrete, masonry, plaster and softboards applications. For the correct choice of product for the intended application, the substrate matrix, the application recommendations and product information in the SIGA manual must be considered. The currently valid SIGA manual is available at www.siga.swiss).

1. Provide flashing manufacturer recommended primer to assist in adhesion between substrate and flashing.
2. Product:
 - a. SIGA Dockskin®.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verify substrate and surface conditions are in accordance with weather barrier manufacturer recommended tolerances prior to installation of weather barrier and accessories.
1. Verify that surfaces and conditions are suitable prior to commencing work of this section. Do not proceed with installation until unsatisfactory conditions have been corrected.
 2. Verify substrate is dry.
 3. Ensure that the following conditions are met:
 - a. Surfaces are sound, dry, even, and free of excess mortar or other contaminants.
 - b. Inspect surfaces to be smooth without large voids or sharp protrusions. Inform General Contractor if substrates are not acceptable and need to be repaired by another sub-contractor.
 - c. Inspect masonry joints to be flush and completely filled, and ensure all excess mortar sitting on masonry ties has been removed. Inform General Contractor if masonry joints are not acceptable and need to be repaired by the masonry sub-trade.
 4. Verify sealants are compatible with flexible sheet proposed for use. The current valid SIGA sealant compatibility matrix is available at www.siga.swiss.
 5. Notify Architect in writing of anticipated problems installing the weather barrier material over substrate prior to proceeding.

3.2 INSTALLATION- WEATHER BARRIER

- A. Install SIGA Majvest® 700 SOB over exterior face of exterior wall substrate in accordance with manufacturer recommendations.
- B. Install weather barrier prior to installation of windows and doors.
- C. Begin by aligning the bottom edge of the roll approximately 3"(76mm) - 6"(152mm) below the base of the wall onto the foundation, approximately 12 inches (305mm) from a corner, with the print side facing out. Maintain weather barrier plumb and level.

- D. Unroll the weather barrier completely, wrapping the entire building, including door and window openings.
- E. Temporarily fasten every 24" (610 mm) - 36" (915mm) within coverage area.
- F. Overlap weather barrier at all corners of building by a minimum of 12 inches (305mm).
- G. Overlap weather barrier at all seams by a minimum of 4 inches (100 mm), and tape all vertical seams with SIGA Wigluv® black.
- H. Seal horizontal seams with integrated tape. Line up both release films together. Join horizontal seams by peeling back both release films, starting from where horizontal joint meets vertical joint. Remove release film of the integrated tape and press firmly into place.
- I. Secure to foundation with SIGA Wigluv black with primer SIGA Dockskin® as recommended by weather barrier manufacturer.
- J. Weather Barrier permanent Attachment: Fasten securely to a stud, structural sheathing or through insulation board to an underlying framing member with maximum horizontal and vertical spacing of 24 inches (610 mm).

(Specifier Note: Attachment method is dependent upon substrate construction. DELETE methods that are unnecessary and inappropriate for specific project)

- 1. (Specifier Note: Steel or Wood Frame Construction) Attach weather barrier to studs through exterior sheathing. Secure using weather barrier manufacturer recommend fasteners, space 24 inches (610 mm) on center, maximum horizontally.

AND/OR

- 2. (Specifier Note: Masonry Construction) Attach weather barrier to masonry. Secure using weather barrier manufacturer recommend fasteners, space 24 inches (610 mm) maximum horizontally. Weather barrier may be temporarily attached to masonry using recommended adhesive, placed in vertical strips spaced 24 inches (610 mm) on center, when coordinated on the project site.

(Specifier Note: Cladding anchors, supports and fasteners will likely be specified in the section including the cladding, COORDINATE the inclusion of the following paragraph in the appropriate specification section. With weather barrier manufacturer's approval cladding anchors can be used to fasten the weather barrier).

- K. Apply a piece of SIGA Wigluv black or weather barrier manufacturer approved alternate to weather barrier membrane prior to the installation cladding anchors.

3.3 SEAMING

- A. Seal seams of weather barrier with seam tape SIGA Wigluv black 2.4" (60mm) or wider at all vertical overlapping seams.
- B. Seal any tears or cuts with seam tape SIGA Wigluv black as recommended by weather barrier manufacturer.

(Specifier Note: Opening preparation and flashing installation is dependent upon the construction of the opening and construction of the window. DELETE execution requirements that are not appropriate for specific project. COORDINATE proper design and detailing at windows, doors and other openings or intersections for proper flashing in accordance with window manufacturer guidelines, industry standards and best flashing and waterproofing practices).

3.4 OPENING PREPARATION (for all windows)

(Specifier Note: Window manufacturer's instructions over-ride SIGA specifications for window openings. The installer is responsible to resolve any conflicts in the specifications, sequencing, materials or techniques between window manufacturer's instructions and SIGA specifications before construction. MAINTAIN the following opening preparation and flashing articles, when used in conjunction with non-flanged windows, or flanged windows. Contact SIGA applications advisor for assistance and consult the SIGA Manual www.siga.swiss).

- A. Flush cut weather barrier at edge of sheathing around full perimeter of opening.
- B. Cut a head flap at 45-degree angle in the weather barrier at window head to expose 9 inches (230 mm) of sheathing. Temporarily secure weather barrier flap away from sheathing with tape.
- C. Install materials in strict accordance with manufacturer's instructions. Surfaces shall be clean and free of frost, oil, grease, mold and efflorescence prior to application of flashing.
- D. Cut SIGA Wigluv® black 4" (100mm) or wider , to length: full width of sill +4" (100mm) (to extend 2" (50mm) past each end)
 1. Crease along split backing and remove one backing strip. Center and apply to exterior face.
 2. Cut along crease from each corner to end.
 3. Remove second backing strip and fold into RO.
 4. Work out from center, upturning excess at each end. Press firmly.
 5. Window sill pan flashings:

(Specifier Note: Best construction practice requires window sill details to be waterproofed and flashed prior to the placement of the window assembly. DELETE methods that are unnecessary and inappropriate for specific project).

- a. (Specifier Note: no pan flashing for all construction details incorporating fenestration drainage systems provided by the building designer, or where wall construction details are specifically provided by fenestration manufacturers' installation instructions.) Cover horizontal sill by aligning SIGA Wigluv black with inside edge of sill. Release on backing strip and adhere to rough opening across sill. Release remaining backing strip and secure flashing firmly to wall face.

OR

- b. (Specifier Note: pre-fabricated sill pan flashing) Follow sill pan manufacturers' instructions, window manufacturer's instructions and ASTM E2112 recommendations.
- c. (Specifier Note: field-fabricated sill pan flashing) Use SIGA Wigluv black to field-fabricate a sloped sill pan flashing over a beveled slope-to-drain sill plate or over sill with back-dam. Cover horizontal sill by aligning SIGA Wigluv black with inside edge of sill. Release on backing strip and adhere to pan flashing across sill. Release remaining backing strip and secure flashing firmly to wall face.

- E. Cut 4-inch (100 mm) wide SIGA Wigluv black to 3 inches (75 mm) longer than the depth of the rough opening (RO).
 - 1. Fold SIGA Wigluv black along the split backing and slide into corner. Remove one side of backing strip and adhere flashing, then repeat for the other half, forming a corner.
 - 2. Starting at the corner where the excess material is over-hanging, use both thumbs to uniformly spread the material down onto the wall face using firm hand pressure.
- F. Repeat steps D and E for remaining portions of the rough opening (jambs and head) and corners.
- G. Coordinate flashing with window installation.

3.5 FLASHING (for use with non-flanged windows)

(Specifier Note: Refer to section 3.4 Opening Preparation [above] before installing the window according to manufacturer's instructions).

- A. Install window according to manufacturer's instructions.
- B. On exterior, cut SIGA Wigluv® black 20/40 the full length of the sill, plus 3 inches (75 mm) at each end. Justify the narrow folded edge of the SIGA Wigluv black 20/40 to the bottom edge of the window face. At each end, make a 90° turn, and continue bonding onto jamb. Press on firmly and remove entire backing strip.
- C. Press tape tightly into corner of the rough opening, working towards the window. Fold tape onto itself, creating a triangle. Press on. Repeat at other end. Adhere seam between window and sill, without tension.
- D. Repeat steps B and C to seal head.
- E. Cut SIGA Wigluv black 20/40 to full height of jamb. Bond narrow side of SIGA Wigluv black 20/40 to window face. Remove backing strip. Flatten prefold down and press tape along the length of the corner. Repeat on opposite jamb.
- F. Position weather barrier head flap across head flashing. Adhere using 4-inch (100 mm) wide SIGA Wigluv black over the 45-degree seams.
- G. Before sealing the interior, insulation must be used around the perimeter of the window in accordance with shop drawings and the insulation manufacturer's guidelines. Insulation must allow for expansion and contraction of the installed window.

3.6 FLASHING (for use with flanged windows)

(Specifier Note: Refer to section 3.4 Opening Preparation [above] before installing the window according to manufacturer's instructions).

- A. Install window according to manufacturer's instructions.
- B. Counterflash Jambs
 - 1. Apply 4-inch (100 mm) wide (or wider) strips of SIGA Wigluv® black at jambs overlapping entire mounting flange +1" (25 mm) at both top and bottom.

2. Remove backing strips and press on.
- C. Counterflash Head
1. Apply 4-inch (100 mm) wide (or wider) strip of SIGA Wigluv black as head flashing overlapping the mounting flange. Head flashing should extend a minimum 1" (25 mm) beyond outside edges of both jamb flashings.
 2. Remove backing strips and press on.
- D. Position weather barrier head flap across head flashing. Adhere using 4" (100 mm) wide SIGA Wigluv over the 45-degree seams.
1. Tape head flap in accordance with manufacturer recommendations.
- E. Wall assemblies containing a vapor retarder on the interior wall assembly:
1. Extend flashing into rough opening to ensure sufficient membrane for connection with vapor retarder and provide a continuous air barrier assembly.
 2. Before sealing the interior, insulation must be used around the perimeter of the window in accordance with shop drawings and the insulation manufacturer's guidelines. Insulation must allow for expansion and contraction of the installed window.
- F. Interior Air-seal
1. Ensure joint design will make continuous contact with a fully air-sealed RO.
 2. Seal straight lengths first with SIGA Fentrim® IS 20, and maintain consistent 5/8" (15.9 mm) contact with window frame.
 3. Cut 3" (75 mm) length SIGA Fentrim IS 20 and seal all the corners by making a corner boot (refer to System Guidelines for Mechanically-Attached Water-Resistive Barrier and Air Barrier Assemblies).

3.7 PENETRATIONS

- A. Round or square penetrations must be sealed with SIGA Wigluv® black.
- B. Begin the sealing process at bottom of penetrations, shingling upper tape over bottom tape.
- C. Apply multiple, short pieces of SIGA Wigluv black around the penetration to create a gasket.
- D. Products that have flanges should be integrated into the water-resistive barrier using SIGA Wigluv black.

3.8 WALL TO FOUNDATION TRANSITION

(Specifier Note : When using SIGA Wigluv, primer will be required in concrete, masonry, plaster and soft-boards applications. For the correct choice of product for the intended application, the substrate matrix, the application recommendations and product information in the SIGA manual must be considered. The currently valid SIGA manual is available at www.siga.swiss).

- A. Before sealing, clean the substrate. The substrate must be dry, structurally sound and free of any dirt and grease. It must not be adhesive-repellent.
- B. If the intent is to use SIGA Wigluv black, bond the base-joint substrate with high-performance primer Dockskin. Brush or roll on Dockskin primer to concrete, and let it set, clear and tacky.

- C. Align the center of SIGA Wigluv black 4 " (100mm) or wider to the center of the joint, between the concrete base joint and the weather barrier SIGA Majvest® 700 SOB. Minimum 2" (50mm) overlap is required onto concrete.
- D. Secure in place, and remove backing strip.
- E. Bond without any tension and wrinkles and press on firmly with hand or roller.

3.9 OTHER DETAILING/FLASHING

- A. Contact a SIGA applications advisor for assistance with any unlisted installation details including, but not limited to, the following:
 - 1. Construction joints
 - 2. Transitions :
 - a. Roof to air barrier
 - b. Air barrier to vertical or horizontal waterproofing
 - c. Fastener penetrations
 - 3. Inside and outside corners
 - 4. Shelf angles
 - 5. Reverse laps
- B. Complete detailing and flashing installations per Air Barrier Manufacturer's installation guide, details, and this specification.

3.10 FIELD QUALITY CONTROL

- A. Notify weather barrier manufacturer's designated representative to obtain periodic observations of weather barrier system installation if required. Notification shall be a minimum of 30 days prior to the start of installation. Notice of final observation shall be made 30 days prior to completion.
- B. Inspections by Commissioner or Architect: Weather barrier materials, accessories, and installation are subject to inspection for compliance with performance requirements. Repair damage to weather barriers caused by destructive testing; follow manufacturer's written instructions.

3.11 PROTECTION AND CLEANING

- A. Protect weather barrier from contact with incompatible materials and sealants not approved per weather barrier manufacturer's recommendation.
- B. Protect installed weather barrier system from damage during construction prior to cladding installation.

END OF SECTION

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