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SPEC NOTE: **Henry® Air-Bloc® All Weather STPE™ Fluid Applied Vapour Permeable Air Barrier.** This specification is ideally suited for buildings installing a UV-resistant fluid applied STPE mould-resistive air barrier in accordance with the water resistive barrier (WRB) requirements of the Construction Specifications Canada (CSC). Air-Bloc All Weather STPE is used in cavity wall construction to provide an air and watertight membrane that allows for the passage of water vapour.

SPEC NOTE: This guide specification is a reference for recommended installation procedures of the products/assembly described; formatted in accordance with the Construction Specifications Canada (CSC) Manual of Practice. It is the discretion of the project specification author to use the information within as a whole, or in part, to set a minimum standard of performance. Update “[project specific]” notes and coordinate as required. Use of General Contractor/installing Subcontractor identified accordingly; modify as required.

SPEC NOTE: This document includes Henry Company notes to assist the architect/specification writer. A Henry Company “SPEC NOTE” will always immediately precede the text to which it is referring. The section serves as a guideline; modify to meet specific project requirements.

SPEC NOTE: Delete “SPEC NOTE” sections in the final copy of the specification.

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1. **GENERAL**
   1. GENERAL REQUIREMENTS
      1. The General Conditions, Supplementary Conditions, Instructions to Bidders, and Division 01- General Requirements shall be read in conjunction with and govern this section.
      2. Read this Specification as a whole by all parties concerned. Each Section may contain more or less than the complete Work of any trade. The Contractor is solely responsible to make clear to the installing Subcontractor the extent of their Work.
   2. SUMMARY
      1. This Section includes requirements for supplying labour, materials, tools, and equipment to complete the Work as shown on the Drawings Architectural Division as specified herein including, but not limited to, the following:
         1. Fluid Applied Vapour Permeable Air Barrier
         2. Flashings
         3. Flashing Primer
         4. Sealant
         5. Thru-wall Flashing
   3. RELATED REQUIREMENTS
      1. DIVISION 03 – Concrete Section [project specific]
      2. DIVISION 04 – Masonry Section 04 20 00 – Unit Masonry
      3. DIVISION 06 – Wood, Plastics, and Composites Section 06 16 00 Sheathing
      4. DIVISION 07 – Thermal and Moisture Protection Section 07 10 00 - Dampproofing and Waterproofing
      5. DIVISION 07 – Thermal and Moisture Protection Section 07 21 00 - Thermal Insulation
      6. DIVISION 07 – Thermal and Moisture Protection Section 07 26 00 - Vapour Retarders
      7. DIVISION 07 – Thermal and Moisture Protection Section 07 62 00 - Sheet Metal Flashing and Trim
      8. DIVISION 07 – Thermal and Moisture Protection 07 50 00 Membrane Roofing
      9. DIVISION 07 – Thermal and Moisture Protection Section 07 92 00 - Joint Sealants
      10. DIVISION 08 – Openings Section 08 40 00 - Entrances, Storefronts, and Curtain Walls

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SPEC NOTE: Projects not referencing LEED delete Sections “1.3.11”, “1.4.3.4.2”, “1.5.3”, and “1.7.2.2.2”.

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* + 1. DIVISION [project specific] - LEED Requirements Section [project specific] – [project specific]

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SPEC NOTE: Assemblies not requiring NFPA 285 compliance delete Sections “1.4.3.5”, “1.5.3”, and “1.7.2.3”.

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* 1. ALTERNATES
     1. Submit requests for alternates in accordance with Section [project specific].
     2. Air barrier assemblies must meet the following standards:
        1. Water-Resistive Barrier (WRB): Fluid applied, Silyl Terminated Polyether (STPE)
        2. STPE air barrier can be applied to damp surfaces
        3. IBC Section 1402, Vertical and lateral flame propagation: meets NFPA 285 Exception #2 Per ASTM E1354 and ASTM E84
        4. Application Temperature: -12 °C to +50 °C (10 °F to 122 °F)
        5. Service Temperature: -40 °C to +149 °C (-40 °F to +300 °F)
        6. Rain ready within 30 minutes
        7. Water Vapour Permeance (ASTM E96):
           1. Method B: 19 perms @ 20 mils
        8. Water Resistance (AATCC TM127): Pass
        9. Surface Burning Characteristics (ASTM E84):
           1. Flame Spread Index: 20, Class A
           2. Smoke developed: 10, Class A
        10. UV resistance:
            1. Accelerated Weathering (ASTM G154): >5000 hours
            2. UV resistance during construction: 12 months
            3. Permanent UV exposure under open joint cladding
        11. VOC Content, max (EPA Method 24): 25g/L Method 24
        12. Declaration Status: LBC Red List Free
     3. Alternate submission format to include:
        1. Documentation from an independent testing laboratory certifying the performance of the system, including auxiliary components, meet requirements of this specification.
        2. References indicating the Air Barrier Manufacturer has successfully completed projects of similar scope and nature on an annual basis for a minimum of ten (10) years.
        3. Product Data:
           1. Air Barrier Manufacturer’s guide specification
           2. Air Barrier Manufacturer’s technical data sheets
           3. Air Barrier Manufacturer’s details
        4. Certificates:
           1. Product certification that the assembly components are supplied and warranted by single source Air Barrier Manufacturer
           2. LEED HPD declaration
        5. Tests and Evaluation Reports:
           1. NFPA 285 wall assembly compliance:

Air Barrier Manufacturer statement that anticipated wall assembly complies with NFPA 285

* + - 1. Sample warranty as specified
    1. Submit requests for alternates to this specification a minimum of ten (10) working days prior to bid date. Include a list of twenty-five (25) projects executed over the past five (5) years.
    2. Issued addendums confirm acceptable alternates. Do not submit substitute materials after tender closing.
  1. REFERENCES
     1. American Architectural Manufacturers Association (AAMA):
        1. AMMA 2400-02, Standard Practice for Installation of Windows with a Mounting Flange in Stud Frame Construction
     2. American Society for Testing and Materials (ASTM):
        1. ASTM D412, Standard Test Method for Vulcanized Rubber and Thermoplastic Elastomers - Tension
        2. ASTM D1970, Standard Specification for Self-Adhering Polymer Modified Bituminous Sheet Materials Used as Steep Roofing Underlayment for Ice Dam Protection
        3. ASTM D2243, Standard Test Method for Freeze-Thaw Resistance of Water-Borne Coatings
        4. ASTM D5590, Standard Test Method for Determining the Resistance of Paint Films and Related Coatings to Fungal Defacement by Accelerated Four-Week Agar Plate Assay
        5. ASTM E84, Standard Test Method for Surface Burning Characteristics of Building Materials
        6. ASTM E96, Standard Test Methods for Water Vapour Transmission of Materials
        7. ASTM [E1677, Standard Specification for Air Barrier (AB) Material or System for Low-Rise Framed Building Walls](http://www.astm.org/cgi-bin/SoftCart.exe/DATABASE.CART/REDLINE_PAGES/E1677.htm?L+mystore+sxjz0304+1186523598)
        8. ASTM E2112, Standard Practice for Installation of Exterior Windows, Doors and Skylights
        9. ASTM E2178, Standard Test Method for Air Permeance of Building Materials
        10. ASTM E2357, Standard Test Method for Determining Air Leakage of Air Barrier Assemblies
     3. Canadian Green Building Council (CaGBC), Leadership in Energy and Environmental Design (LEED)
     4. National Fire and Protection Agency (NFPA):
        1. NFPA 285, Standard Fire Test Method for Evaluation of Fire Propagation Characteristics of Exterior Non-Load-Bearing Wall Assemblies Containing Combustible Components
  2. ADMINISTRATIVE REQUIREMENTS
     1. Pre-installation meetings:
        1. When required, and with prior notice, an Air Barrier Manufacturer representative will meet with the necessary parties at the jobsite to review and discuss project conditions as it relates to the integrity of the assembly.
  3. SUBMITTALS
     1. Provide the following requested information in accordance with Section [project specific] Submittal Procedures.
     2. Action Submittals:
        1. Product Data:
           1. Air Barrier Manufacturer’s guide specification
           2. Air Barrier Manufacturer’s technical data sheets
           3. Air Barrier Manufacturer’s details
        2. Certificates:
           1. Product certification that the assembly components are supplied and warranted by single source Air Barrier Manufacturer
           2. LEED HPD declaration
           3. Declaration Status: LBC Red List Free
        3. Tests and Evaluation Reports:
           1. NFPA 285 wall assembly compliance:

Air Barrier Manufacturer statement that anticipated wall assembly complies with NFPA 285

* + - 1. Sample warranty as specified
  1. QUALITY ASSURANCE
     1. Single Source Responsibility:
        1. Obtain air barrier, flashings, sealants and primers from a single Air Barrier Manufacturer regularly engaged in the manufacturing and supply of the specified products.
        2. Verify product compliance with federal, province and local regulations.
     2. Manufacturer Qualifications:
        1. Air Barrier Manufacturer must not issue warranties for terms longer than they have been manufacturing and supplying specified products for similar scope of Work.
     3. Installer Qualifications:
        1. Perform Work in accordance with Air Barrier Manufacturer published literature and as specified in this section.
        2. Maintain one (1) copy of Air Barrier Manufacturer’s installation instructions on site.
        3. Allow the Air Barrier Manufacturer representative site access during installation.
        4. Contact the Air Barrier Manufacturer a minimum of two weeks prior to scheduling a meeting.

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SPEC NOTE: Create mock-up to establish quality of work where practical. Delete the following paragraph if the scope of work in this Section is minimal and a mock-up is not required.

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* 1. MOCK-UPS
     + 1. Construct mock-ups to verify selections made under submittals and to set quality standards for materials and execution in accordance with Section [project specific] for mock-ups and as follows:
          1. Where directed by [Architect] [Engineer] [Consultant], construct typical exterior wall section, two (2) m by two (2) m, incorporating [project specific], substrate materials, and adjacent materials including flashing, door frame, window frame, attachment of insulation and [project specific]; showing vapour permeable water resistive air barrier application details.
       2. Notify [Architect] [Engineer] [Consultant] a minimum seven (7) days prior to mock-up construction.
       3. Review and acceptance of mock-ups does not constitute approval of deviations from the Contract Documents contained in mock-ups unless [Architect] [Engineer] [Consultant] specifically notes such deviations in writing.
       4. Once reviewed by [Architect] [Engineer] [Consultant], acceptable mock-up can form a permanent part of the Work, and will form the basis for acceptance for the remainder of the project.
       5. Remove and replace materials found unacceptable at no additional cost to Owner.
  2. DELIVERY, STORAGE, AND HANDLING
     1. Delivery of Materials:
        1. Deliver materials to the jobsite in undamaged and clearly marked containers and/or wrapping indicating the name of the Air Barrier Manufacturer and product.
     2. Storage of Materials:
        1. Store materials as recommended by the Air Barrier Manufacturer and conform to applicable safety regulatory agencies. Refer to all applicable data including, but not limited to, Safety Data Sheets, Product Data sheets, product labels, and specific instructions for personal protection.
        2. Keep solvents away from open flame or excessive heat.
        3. Store rolled materials on end.
     3. Handling:
        1. Product requirements may vary. Refer to product specific Safety Data Sheet.
  3. SITE CONDITIONS
     1. Environmental Requirements:
        1. Do not perform Work during rain.
        2. Do not perform Work on frost covered or wet substrates; can be applied to damp surfaces.
        3. Product requirements may vary. Refer to product specific Technical Data Sheet.
     2. Protection:
        1. It is the responsibility of the installing Subcontractor to protect all surfaces not included in scope of Work from damage.
        2. Protect top and backside of substrate walls against bulk water during and after application of air barrier.
     3. Complete preparation Work prior to installing the air barrier assembly.
     4. Ground electrical equipment during operations.
  4. WARRANTY
     1. Manufacturer Material Warranty:
        1. Provide Air Barrier Manufacturer’s standard ten (10) year material warranty.

1. **PRODUCTS**
   1. MANUFACTURER
      1. Acceptable Manufacturers:
         1. Henry Company

15 Wallsend Drive,

Scarborough, Ontario, M1E 3X6

(800) 486-1278

[www.ca.Henry.com](http://www.ca.Henry.com)

* 1. MATERIALS
     1. Obtain air barrier and auxiliary materials as a single-source system from the Air Barrier Manufacturer to ensure compatibility and compliance with the following requirements:
        1. Water-Resistive Barrier (WRB): Fluid applied, Silyl Terminated Polyether (STPE)
        2. STPE air barrier can be applied to damp surfaces
        3. IBC Section 1402, Vertical and lateral flame propagation: meets NFPA 285 Exception #2 Per ASTM E1354 and ASTM E84
        4. Application Temperature: -12 °C to +50 °C (10 °F to 122 °F)
        5. Service Temperature: -40 °C to +149 °C (-40 °F to +300 °F)
        6. Rain ready within 30 minutes
        7. Water Vapour Permeance (ASTM E96):
           1. Method B: 19 perms @ 20 mils
        8. Water Resistance (AATCC TM127): Pass
        9. Surface Burning Characteristics (ASTM E84):
           1. Flame Spread Index: 20, Class A
           2. Smoke developed: 10, Class A
        10. UV resistance:
            1. Accelerated Weathering (ASTM G154): >5000 hours
            2. UV resistance during construction: 12 months
            3. Permanent UV exposure under open joint cladding
        11. VOC Content, max (EPA Method 24): 25g/L Method 24
            1. Declaration Status: LBC Red List Free
     2. Fluid Applied Vapour Permeable Air Barrier (Basis of Design):
        1. UV and fire resistant, single-component, moisture cure Silyl Terminated Polyether (STPE) water-resistive air barrier designed to provide a vapour permeable air and water barrier when applied on above-grade wall assemblies, having the following typical properties:
           1. Basis of design: Air-Bloc All Weather STPE Fluid Applied Vapour Permeable Air Barrier
           2. Color: Black
           3. STPE air barrier can be applied to damp surfaces
           4. IBC Section 1402, Vertical and lateral flame propagation: meets NFPA 285 Exception #2 Per ASTM E1354 and ASTM E84
           5. Recommended Film Thickness: 20 mils WFT/DFT
           6. Solids Content: >98%
           7. Application Temperature: -12 °C to +50 °C (10 °F to 122 °F)
           8. Service Temperature: -40 °C to +149 °C (-40 °F to +300 °F)
           9. Rain ready within 30 minutes
           10. Water Vapour Permeance (ASTM E96):

Method B: 19 perms @ 20 mils

* + - * 1. Air Permeance:

Material (ASTM E2178): 0.003 cfm/ft2 (0.0147 L/s.m.2)

Air Leakage – Assembly (ASTM E2357): Pass

* + - * 1. Elongation (ASTM D412): 350%
        2. Tensile Strength (ASTM D412): 100 psi
        3. Nail Sealability (AAMA 711-07 (ASTM D1970 modified): Pass
        4. Water Resistance (AATCC TM127): Pass
        5. Surface Burning Characteristics (ASTM E84):

Flame Spread Index: 20, Class A

Smoke developed: 10, Class A

* + - * 1. Fire Testing (NFPA 285): Complies in various assemblies
        2. UV Resistance:

Accelerated Weathering (ASTM G154): >5000 hours

UV resistance during construction: 12 months

Permanent UV exposure under open joint cladding

* + - * 1. VOC Content, max (EPA Method 24): 25g/L Method 24
        2. Declaration Status: LBC Red List Free

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SPEC NOTE: Henry recommends the use of Blueskin SA or Air-Bloc LF for window and door flashings. Use BlueskinSA LT or Blueskin Butyl Flash where low temperature applications are required. Use Blueskin Metal Clad® or Foilskin® where UV resistance or other metal attributes are required. Modify this section per project specific requirements.

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* + 1. Auxiliary Materials
       1. Flashings; choose from the following:
          1. Liquid-applied flashing:

Moisture-cure one component elastomeric liquid applied flashing using an STPE (Silyl-Terminated Polyether) polymer, having the following typical properties:

Basis of Design Product: Henry Air-Bloc LF® Liquid Applied Flashing

Color: Blue

* + - * 1. Self-Adhered flashing:

Vapour impermeable, self-adhered water resistive air and vapour barrier consisting of an SBS rubberized asphalt compound, integrally laminated to a blue engineered thermoplastic film, having the following typical properties:

Basis of Design Product: Henry Blueskin® SA Self-Adhered Water Resistive Air Barrier

Color: Blue

* + - 1. Primers for Self-Adhered Flashing:
         1. Polymer emulsion-based primer for self-adhered membranes, and having the following typical properties:

Basis of Design Product: Henry Aquatac™ Primer

Color: Aqua.

Water based: Maximum VOC: 50 g/l

* + - 1. Sealants:
         1. Moisture cure, medium modulus polymer modified sealing compound, having the following typical properties:

Basis of Design Product: Henry925 BES Sealant

Complies with Fed. Spec. TT-S-00230C, Type II, Class A.

Complies with ASTM C920, Type S, Grade NS, Class 35.

* + - 1. Thru-Wall Flashing:
         1. Vapour impermeable, self-adhered water resistive air and vapour barrier consisting of an SBS rubberized asphalt compound, integrally laminated to a yellow engineered thermoplastic film, having the following typical properties:

Basis of Design Product: Henry Blueskin TWF Self-Adhered Thru-Wall Flashing

Color: Yellow

1. **EXECUTION**
   1. EXAMINATION
      1. It is the installing Subcontractor’s responsibility to verify the substrate is in accordance with Air Barrier Manufacturer requirements and as specified in this Section prior to installation of air barrier. Commencement of the Work or any parts thereof, indicates installer acceptance of the substrate.
         1. Acceptable substrates include exterior-grade gypsum sheathing, plywood, OSB, precast or cast-in-place concrete, CMU, primed steel, aluminum mill finish, anodized aluminum, and galvanized metal.
         2. Verify surfaces are sound, clean and free of frost, oil, grease, dirt, excess mortar or other contaminants.
         3. Substrate must be continuous and secure.
         4. Sheathing fasteners must be installed into solid backing and set flush with sheathing.
         5. Masonry joints must be struck flush. Allow fresh CMU mortar joints to cure for a minimum of thirty-six (36) hours.
         6. Tie holes/voids in poured concrete to be flush and smooth shall be filled. Allow new concrete to cure a minimum of thirty-six (36) hours after forms are removed.
         7. Top and backside of substrate walls must be protected against bulk water during and after application of air barrier.
         8. Curing compounds must be resin based without oil, wax or pigments. Substrates must be free of form release agents.
      2. Notify contractor in writing of any conditions that are not acceptable.
      3. Do not apply air barrier assembly components until substrate and environmental conditions are in accordance with Air Barrier Manufacturer’s published literature.
   2. PREPARATION
      1. Verify surfaces are in accordance with the product specific technical data sheet and as stated in this specification.
      2. Protection:
         1. Protect top and backside of substrate walls against bulk water during and after application of air barrier.
   3. INSTALLATION
      1. Environmental Requirements:
         1. Do not perform Work during rain or inclement weather.
         2. Do not perform Work on frost covered or wet substrates; can be applied to damp surfaces.
         3. Do not perform Work when ambient (air) and substrate temperatures are below -12 °C (10 °F).
      2. Refer to Air Barrier Manufacturer detail drawings for installation procedures including, but not limited to, the following:
         1. Changes in substrate
         2. Control joints
         3. Crack treatment
         4. Inside corners
         5. Outside corners
         6. Penetrations
         7. Rough openings
         8. Sheathing Joints
      3. Moving Joints:
         1. Contact Air Barrier Manufacturer.
      4. Contact Air Barrier Manufacturer to coordinate transition of air barrier to adjacent areas including, but not limited to, the following:
         1. Roofing
         2. Waterproofing
         3. Fastener penetrations
      5. Thru-Wall Flashing:
         1. Coordinate with Section [project specific].
      6. Primary Air Barrier
         1. Install air barrier assembly in accordance with Air Barrier Manufacturer product specific TDS, details, guide specification, and technical bulletins to create a monolithic air and watertight application without sags, runs or voids.
         2. Lap air barrier onto flashing 2.5mm (1 inch) minimum.
         3. Application Rate:
            1. Application rates and cured dry film thickness are approximate, and may vary depending on texture and porosity of surface
            2. Wet film thickness (WFT): 20 mils
            3. Dry film thickness (DFT): 20 mils
   4. FIELD QUALITY CONTROL
      1. Final Observation and Verification:
         1. [Architect] [Consultant] [General Contractor] and Air Barrier Manufacturer to complete final observation of air barrier assembly as required by warranty.
   5. CLEANING
      1. As the Work proceeds, and upon completion, promptly clean up and remove from the premises all rubbish and surplus materials resulting from the foregoing Work.
      2. Clean soiled surfaces, spatters, and damage to adjacent areas caused by Work of this Section.
      3. Check area to ensure cleanliness and remove debris, equipment, and excess material from the site.

END OF SECTION