



Brasco International, Inc.

32400 Industrial Dr., Madison Heights MI, 48071

p 800.893.3665 | f 313.393.0499 | sales@brasco.com | www.brasco.com



ECLIPSE

Transit Shelter | EC-Series

BRASCO

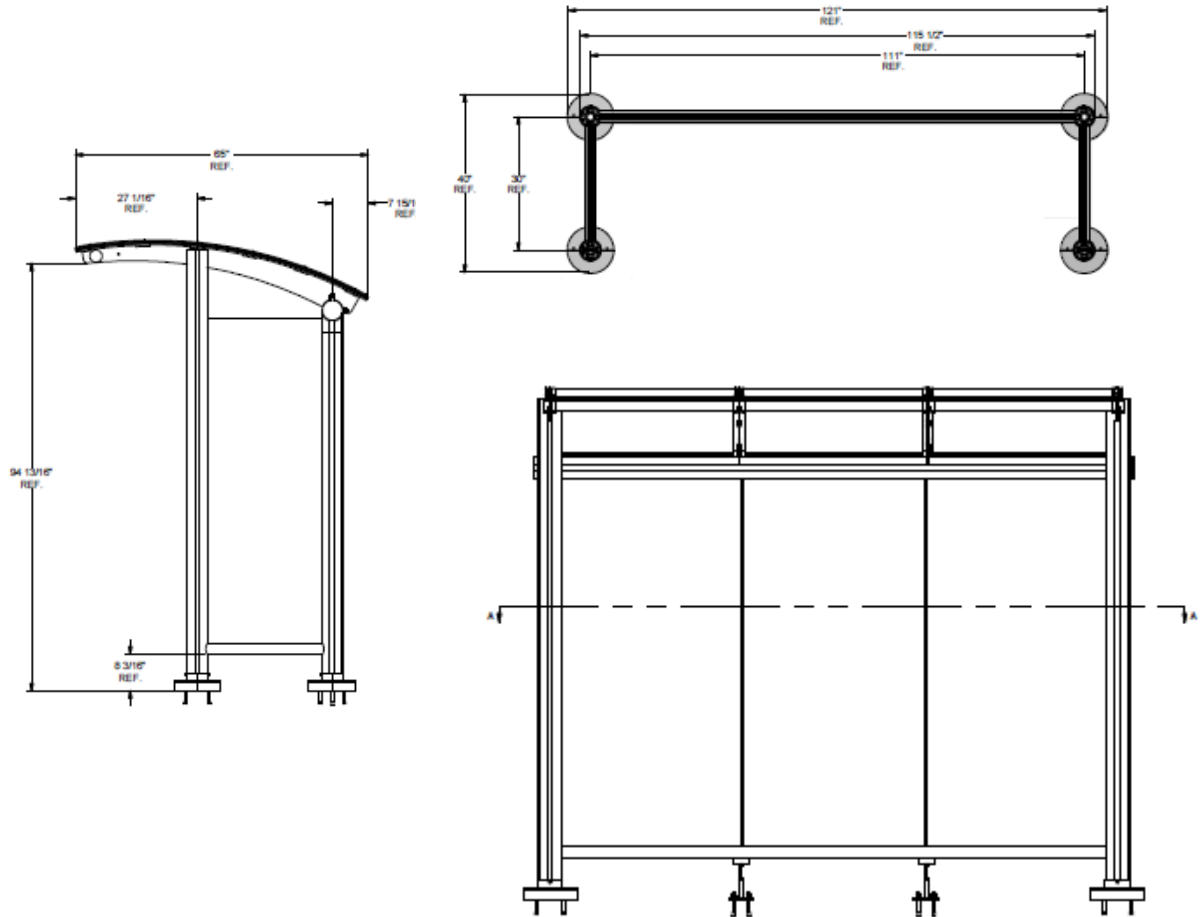
USA Metal Fabrications

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Transit Shelter | EC-Series | Product Specifications



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Configuration

- Cantilever Style (partial side walls with overhanging roof)

Available Accessories

- Ad box (lit or unlit)
- Display case for schedule or map
- Security lighting (A/C or solar-powered)
- Graphics
- Trash receptacle
- Bench
- Leaning rail
- Bike rack

Standard Sizes

Depth	Length	Roof Type
5'	10'	Arch

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PART 1. GENERAL

1.01 SECTION INCLUDES

- A. Design and fabrication of Bus Passenger Waiting Shelters, and related Site Furnishings.

1.02 RELATED WORK

- A. Concrete (by others)

1.03 REFERENCES

- The Aluminum Association – Aluminum Design Manual 2010
- American Welding Society – AWS D1.2/D1.2M: 2008
- ASCE 7 2010 Minimum Design Loads for Buildings and Other Structures
- ASTM B 209 Specification for Aluminum and Aluminum Alloy – Sheet and Plate
- ASTM B221 Specification for Aluminum and Aluminum Alloy – Extruded Bars, Rods, Wire, Profiles, and Tubes
- Florida Building Code 2010 (175 MPH Wind Speed)
- ANSI Z97.1-1975 Safety Glazing Materials Used in Buildings
- Americans with Disabilities Act of 1990 (ADA)

1.04 SUBMITTALS

- A. Product Data - Manufacturers' brochures, specifications, and installation instructions.
- B. Shop drawings of the complete shelter layout, includes cut section and connection details.
- C. Submit structural engineering design documents bearing the seal of a structural engineer registered in the state of the project. Shelter must be on the NCDOT approved products list prior to bid.
- D. Manufacturer's statement of certification that materials meet or exceed all applicable loadings (wind load, live load, dead load, snow load) for the project location in accordance with IBC 2006, and ASCE 7-05.
- E. Samples of shelter finish.

1.05 QUALITY ASSURANCE

- A. Shelter shall be designed to comply with local building codes.
- B. Shelter manufacturer shall have a minimum of 10 years' experience in designing, fabrication, and installing the specified shelter.
- C. The shelter installation shall be performed by the manufacturer or by a qualified installer.

1.06 DELIVERY AND STORAGE

- A. Deliver shelter with roof fully assembled. Walls and other components shall be assembled to the maximum extent possible in clearly labeled crates and cartons.
- B. Store Materials in clean, dry area in accordance with manufacturer's instructions. Keep materials in original, unopened containers and packaging until installation. Do not store in direct contact with the sun or rain.

1.07 WARRANTY

- Manufacturer warrants that shelter shall be free from defect in parts and manufacture for a period of one year.
- Manufacturer shall maintain inventory of replacement parts for ten years after delivery of shelter.



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PART 2. PRODUCTS

2.01 – MANUFACTURER

Shelters shall be models(s): EC0510-C as manufactured by Brasco International, Inc.

2.02 MATERIALS

- A. All extruded aluminum components shall be 6063T5 Custom aluminum extrusion, with recessed pockets to accept glazing and concealed connections..
- B. Components shall be sized to comply with the load requirement for the project and shall not be less than the dimensions shown on the plan.

2.03 COLUMNS

- A. Rear columns shall be minimum 4.5" dia. X .250" wall thickness.
- B. Front columns shall be minimum 4.5" dia. X .250" wall thickness.
- C. Columns contain integral glazing pocket for gasket and 3/8" wall glazing. The columns are trimmed with flush snap-in covers to conceal structural fasteners where glazing isn't captured.

2.04 HORIZONTAL BEAMS

- A. Horizontal header beam shall be minimum 4.5" dia. x .250 wall thickness with integral glazing pockets.
- B. Horizontal lower sill beams shall be minimum 2.5" dia. x .125 wall thickness with integral glazing pockets.
- C. Beams shall be continuous welded to attachment sleeves.
- D. Header Beam ends shall include mechanically fastened end caps with Wave Transit Logo routed into aluminum.

2.05 ROOF

- A. Roof shall be fully factory assembled.
- B. Roof assembly will be field attached to columns with concealed fasteners.
- C. Rafters shall be Arch Design, minimum 3/8" thick aluminum with welded keyway for attachment to header beam.
- D. Roof Glazing shall be Bronze Acrylic
- E. Roof material shall be captured with channels at front and back of roof. There should also be pressure caps with vinyl gasket at each rafter for proper engagement.

2.06 FASTENERS

- A. All fasteners shall be stainless steel, aluminum, or a combination of both. Zinc plated fasteners shall not be accepted.
- B. Ground attachment anchors shall be sized to meet wind load requirements, and shall be Stainless Steel.

2.07 WALL PANELS

- A. Wall panels shall be 3/8" Clear Tempered Safety Glass. Glass shall be contained in to the gasketed integral pockets of the columns, header beam and sill beams.

2.08 FINISHES

All aluminum surfaces shall be Powder Coat Painted White Aluminum – RAL 9006.

2.09 OPTIONS

- A. Freestanding 6' Eclipse Aluminum Bench HDPE Bench Slats. HDPE Bench Slats to include routed Wave Transit Logo.
- B. 32 Gallon Eclipse Aluminum Trash Receptacle with Bonnet Lid and Plastic Liner

