T/B THERMALLY BROKEN CASEMENT / AWNING WINDOW C – 30

SPECIFICATIONS - SERIES 1500

General – Aluminum casement or awning windows shown on plans and specifications shall be HERITAGE® T/B Thermally Broken series 1500 as manufactured by Tashco Industries, Inc.

MATERIAL – HERITAGE® casement and awning units shall be constructed of specially designed, extruded sections of 6063T5 tempered aluminum alloy and I-Struts between extrusions in accordance with HERITAGE engineering standards drawings. Struts are fiberglass filled polyamide with strands that run with longitudinal consistency for better structural integrity.

PERIMETER FRAME – Consists of head, sill, and jambs. Special designed double hollow extrusion has a special groove system to hold hinges and sliding multi lock. All perimeter frame members have an integral sealing channel. Head houses the limit device's clip. All perimeter frame members are mitered at the corners and accept 3 keys per corner. Perimeter frame extrusion accepts the screen's stainless steel ball bearing roller catches in a concealed way.

SASH – Vent consists of a double hollow extrusion that has a special groove design to hold multi lock catches (lifting blocks), setting blocks and operator's roller. All vent frame members have an integral sealing channel. Limit device's roller and clip slide in head rail. All vent frame members are mitered at the corners and accept 3 ea. keys per corner.

SEALING – EPDM seal used on perimeter frame and on vent's top & bottom rails and lock stile. The hinge stile of the vent is weather-stripped with fin seal. EPDM seals in the perimeter frame and in the vent are chemically welded on the mitered corners.

HARDWARE AND CONSTRUCTION – The top & bottom rails and stiles of perimeter frame and vent are combined with 14.8mm struts. Double struts provide the 3rd hollow on each extrusion. Each corner of perimeter frame and vent is mitered 45 deg. by a computer run saw. Each corner accepts two separate L- keys that are 0.306" thick aluminum The 3rd key is die cast and eliminates twisting of the mitered corner's flat surface. Corners are crimped by a hydraulic machine and each corner has 4 ea. crimps. The hinges are low profile exposed aluminum and connected by a stainless steel rod. The advanced design allows hinges to be fastened without drilling frame and vent extrusions. The hinges are connected to a stainless steel clip by 2 ea. #10 stainless steel machine screws. Thus each hinge is held by 4 ea. stainless steel machine screws on 2 ea. 0.83" thick stainless steel clips. The brass multi point lock pins are on an extruded sliding bar and engage the catches up to 4 points. The catches are attached to the same stainless clip in the groove. The design allows vent adjustment or change out, lock catch adjustment or change out by anybody without experience. The vent operator and lock are die cast and the operator arm is made from steel.

Title of AAMA Test	Measured	Allowed
Air Infiltration ASTM E 283-91	<0,01 cfm/ft2	0.3 scfm/ft^2
Water Resistance Test ASTM E 547-96	WTP = 4.5 psf	No Leakage
Uniform Load-Structural Test- ASTM E 330-96 Test pressure: 30 psf	45 psf 0.045 in. 0.067 in.	 0.307 in. 0.307 in.
Forced Entry Resistance ASTM F588-97	Grade 10 Pass	 No Entry
Vertical Deflection Test AAMA Method Concentrated Load: 60lbf	 0.250 in.	 0.721 in.

If casement / awning windows have a paint finish, both operator and lock are dry powder painted the same color with the window. The operator contains a collapsing handle to allow window treatment to clear the handle. The operator is secured in the slot by using stainless steel washer-clip from the backside. Heritage limit device operates on the vent and perimeter frame top rail. It was designed by HERITAGE. It is all stainless steel, including all screws, rollers and clips. The stainless steel arm is 3/16" thick. The vent has a special bolt and shoe in the top rail to lift the panel up to 5/16" if adjustment is required in very large vents.

GLAZING–Interior glazed. All sash panels supplied with dry glazing; roll in water repelling EPDM between glass and metal and EPDM foam between other surface of the glass and aluminum stop. The glazing will be 1" thick overall sealed insulated glass units with an insulating air space varying from 5/8" – 11/16", depending on the glass thickness. Insulated glass is double sealed.

BUG SCREEN – Frames to be extruded aluminum, fitted with 18 x 16 fiberglass mesh. Special design frames shall have flat flanges all around. Rescreenable fiberglass cloth held by vinyl spline. Corners are crimped and heavy aluminum keys are used. Screens shall have 4 to 6 stainless steel ball bearing roller catches that are all concealed to hold them in the opening. Screens are not intended to act as a human barrier.

INSTALLATION – The perimeter frame can be supplied with nailing fins. All fin corners are closed with a proprietary cold welding method. Casement and awning window units to be installed in prepared openings in accordance with manufacturer's recommendations and installation drawings. Frames must be securely fastened, set plumb and level without twisting, bowing or distortion. After installation, if necessary, all units may be adjusted to insure efficient operation and weathering. The product design shall permit reglazing easily and be cost effective laborwise. Manufacturer assumes no liability for damage by the installer or final cleaning of the glass or aluminum.

FINISH – Standard finish is dry powder meeting AAMA 2603. Hybrid polyester paint will meet AAMA 2604 and Kynar will meet AAMA 2605. Clear and bonze anodized are Class II, meeting AAMA 607.

PERFORMANCE – HERITAGE® Series 1500 Thermally Broken casement and awning windows exceed AAMA specs. Complies with AAMA forced entry resistance testing. Since HERITAGE® products are constantly being improved, HERITAGE® reserves the right to change specifications and designs.

CASEMENT WINDOW SERIES 900 – TEST DATA (C-C35)

(non-thermal casement/awning data)

The following are the results of a casement Heritage 900 series window, tested at a certified AAMA testing laboratory. The unit that has been tested meets or exceeds AAMA's specifications and no

representations as to air infiltration and forced entry resistance is made except to the model tested, which was 36” wide by 78” high.

Summary of Test results
Window Tested: 36” Wide x 78” High
Overall design pressure: 35 psf
Air Leakage Rate: < 0.01 cfm/ft2
Max. Water Pressure Achieved: 4.5 psf
Max. Structural Pressure Achieved: 30 psf
Forced Entry Resistance: Grade 10
Overall Rating: C-C30