



SINGLE HUNG R- 20

SPECIFICATIONS - SERIES 211

General – Aluminum single hung windows shown on plans and specifications shall be HERITAGE SINGLE HUNG series 211 as manufactured by Tashco Industries, Inc of Gilbert, Arizona.

MATERIAL – HERITAGE single hung units shall be constructed of specially designed, extruded sections of 6063T5 tempered aluminum alloy, in accordance with HERITAGE engineering standards drawings.

PERIMETER FRAME –Consists of head, sill, jambs, and meeting rail. Special designed tubular jambs make mulling of units totaling 12 feet wide possible.

SASH – Vent and interlock rails of the moving vent are tubular with 2 screws per corner and each rail will have 3/8" continuous interior rib for positive finger grip so that the vent can be operated from the top or bottom with ease. Each tubular stile has 2 screw ports, which make 2 screw corners possible. As a result, the vent is rigid and strong. Other sash members are semi-tubular. All sash members are machined in interlock corners and fastened by screws.

WEATHERSTRIPPING– Dense polypropylene weatherstripping with mylar fin seal on vent stiles and bottom rail of the vent. Thick pile weatherstripping on interlock rail so the vent is operated with ease. Two finger vinyl on all members of the fixed panel.

HARDWARE AND CONSTRUCTION – Each meeting rail attached to frame jambs by a heat treated and black zinc plated steel L angle bracket which is specially designed to have 0.075" thick and six #8 x 3/8 square drive tamper-resistant screws. Each perimeter frame corner is secured by 2 screws. Interior moving vent shall be equipped with a spring loaded diecast zinc primary latch, which shall engage an integral part of the meeting rail. 3 3/8" long, proprietary design zinc diecast shall provide the secondary lock. The secondary lock is operated by a special design, proprietary, spring action molded knob. Secondary lock engages a molded plastic keeper in the vent track of the jamb. The keeper also provides a 3" locked ventilation opening. The moving vent itself will be counter-balanced with a spiral-type balance system that will hold the vent stationary at any point for its full range of travel. Balancers are from 3/8" to 9/16" in

diameter and are connected to the vent by a special design stamped zinc plated 16 gauge steel bracket. Molded plastic sash guides are screw held rather than pressure held. They are attached to each end of top and bottom vent rails by #8 x 1/2" screws. All screws in the frame and the sash shall be zinc plated.

GLAZING – All sash panels supplied with wrap-around glazing with channel vinyl. Moving vent and fixed sash shall be removable. 211 glazing shall be 5/8" thick overall sealed insulated glass units with an insulating air space varying from 7/16" to 1/4" depending on the glass thickness. Insulated glass shall be HERITAGE TOP-PANE™ double sealed.

BUG SCREEN – Frames to be extruded aluminum, fitted with 18 x 16 fiberglass mesh. Special design frame shall have flat flanges on stiles and top rail. Rescreenable fiberglass cloth held by vinyl spline. 211 special design screens shall have 4-6 positive nylon headed spiral spring-loaded plungers at the jambs. Special design shall permit installation from either the interior or exterior. Screens not intended to act as a human barrier.

INSTALLATION – All units to be installed in prepared openings in accordance with manufacturer's recommendations and installation drawings. Framed 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 – Aluminum sections are pre-treated with Amchem Alodine 4830-4831 paint base. Powder paint is then applied electrostatically, then oven cured.

PERFORMANCE – HERITAGE Series 211 windows exceed all AAMA specifications for DH-R20 windows. Complies with AAMA forced entry resistance testing. Since HERITAGE products are constantly being improved, HERITAGE reserves the right to change specifications and designs.

Title of AAMA Test	Measured	Allowed	%Above AAMA Specifications
Operating Force Vent	22 lbs.	35 lbs.	37%
Air Infiltration (1.57 PSF)=(25mph)	0.16 CFM/FT	0.37 CFM/FT	57%
Water Resistance (3.0 PSF)	No Leakage	No Leakage	
Uniform Load-Structural A-Exterior 30 PSF=(108 mph)	0.100	0.185	46%
B-Interior 30 PSF=(108 mph)	0.083	0.185	55%
Deglazing Test Vent Stile	30%	Not to	70%
Vent Rail	30%	Exceed 100%	70%
Forced Entry Resistance	Passed	No Damage	

SERIES 211 – TEST DATA (DH-R20)

The following are the results of single hung Heritage 211 series window, tested at a certified AAMA testing laboratory. Single hung window, DS-R20 (residential high performance) specifications. 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 47 7/8" wide by 71 7/8' high.