

# BENDHEIM WALL SYSTEMS

## **BWS H60 Unitized Horizontal Frame System**

The BWS H60 Unitized Horizontal Frame System has been specifically developed for unitized construction; however it can be assembled on site.

Unitized construction allows the glazier to fully assemble units in a controlled shop environment, free of conflicting trades. The assembled units can be transported to the project site and hoisted into position. Benefits include: better quality control of shop-built units, minimal weather concerns, and shortened installation times for multiple, pre-assembled units. Pre-assembled units may permit a compression of the project construction schedule.

The BWS H60 Frame System incorporates all varieties of 60mm (2-3/8") flange LINIT channel glass. The jambs of the system have been engineered to act as the hoisting elements and support the full load of the unit. Each glass channel is independently supported within the jamb, preventing transfer of weight from one glass channel to the next. The entire system is thermally broken offering the greatest possible protection from exterior to interior temperature transfer.

The horizontal glass system can offer significant cost savings through selective placement of tempered glass in specified safety glass areas. Typical building codes require tempered glass for the first 18" above the floor. The BWS H60 Frame System permits the use of tempered LINIT channel glass at floor level and can be completed with less expensive annealed LINIT channel glass. This can generate significant savings when compared to vertical installations requiring 100% tempered channel glass.

The head and sill extrusions are manufactured in standard 14' lengths. Jambs are in 16' lengths. Standard finish is 2-coat Kynar in Arcadia Silver. Longer lengths and custom colors are available. Please contact Bendheim Wall Systems for details.

The BWS H60 Frame System has passed extensive testing for performance in accordance with ANSI, ASTM, and AAMA standards. Structural tests conducted on an 8' wide by 15' high unit are as follows:

Static air infiltration: ASTM E283 – results: .01 cfm @ 6.24 psf

Structural deflection (frame): ASTM E330 – results: < L/300 @ 30 psf

Static water infiltration: ASTM E331 – results: no leakage @ 15 psf

Dynamic pressure water infiltration: AAMA 501.1 – results: no leakage @ 15 psf

Seismic Racking: AAMA 501.4 – results: category III performance @ +/- 3.00" displacement from 0.

Thermal Test: AAMA 1503-98 – results: U-value = .57, CFR = 62

Acoustical Testing: ASTM E90, E413, & E1332 – results: STC = 41, OITC = 32

Tempered LINIT channel glass is SGCC certified and has passed the following tests:

Impact: ANSI Z97.1 & CFR 16, part 1201 category II

Compression: ASTM C1048 – results: 10,000 psi surface compression

For more information, contact Bendheim Wall Systems or your local representative:

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# BENDHEIM WALL SYSTEMS - H60 UNITIZED HORIZONTAL FRAME SYSTEM



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Photo 1: Shop assembly of units.

Photo 2: Assembled units moved to staging area.

Photo 3: Assembled units trucked to project site.

Photo 4: Below left: Strapped, ready for hoisting.

Photo 5: Below right: Mid-air hoist of assembled unit.

Photo 6: Right: Assembled unit aligned for insertion into punched opening.

Photo 7: Bottom left: Ground view, 135 feet up.

Photo 8: Bottom right: View of 5 of the 18 installed units.



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