



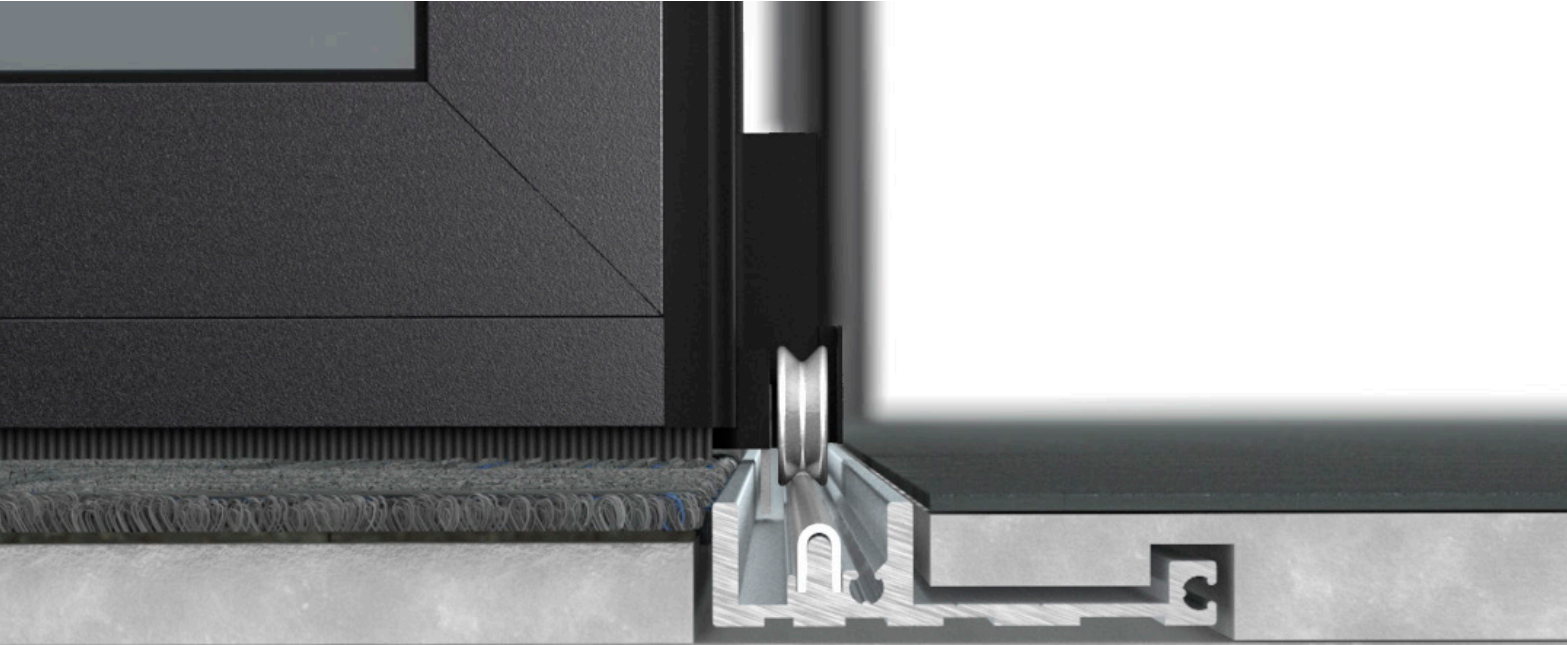
# NW ACOUSTICAL 645

## STC 45 FOLDING GLASS WALL SYSTEM

NW Acoustical 645 is the first floor supported folding glass wall able to achieve unprecedented sound control up to an impressive unit STC 45. This system combines sleek acoustically separated aluminum framing and specialized gasketing with sound-enhanced glass to achieve optimal performance with the range from unit STC 32 up to unit STC 45—all while allowing maximal transparency and natural daylight to flood interior spaces. NW Acoustical 645 is specifically engineered for educational applications and for interior spaces where acoustical privacy and ease of use are of utmost concerns.

GENERATION 

Folding Glass Walls by NanaWall



### FLOOR SUPPORTED FOLDING

NW Acoustical 645 is the only floor supported folding opening glass wall to achieve unit STC 45 for the educational and interiors market. With floor supported systems, the main weight of the unit is carried by the lower stainless steel wheel assembly gliding on top of the stainless steel floor track. Floor supported systems are ideal for applications where load-bearing capability of the header is a concern.



### TWO SILL OPTIONS FOR SEAMLESS INTEGRATION

Two sill options are available: Flush and Minimal Surface Mounted Flush. Both sills are ADA compliant. The shallow Surface Mounted sill allows for easy installation and when installed with finished flooring has a mere 15/16" (23.5 mm) of track exposed. The Flush sill is recessed into existing flooring and is provided with a high heel protection insert. Both sill options create clean transitions between interior spaces.

### EASE OF OPERATION

NW Acoustical 645 is engineered for ease of use. Hinged panels are intuitive and convenient to operate allowing staff to effortlessly open or close the system on demand. The 2-point contact Gothic arch wheel bearing design provides an equal distribution of weight and permits the system to glide with less friction.



### SYSTEM WIDTH ADJUSTMENT FEATURE

System width adjusts with ease. To allow for tolerance, a patented (Patent No. US10683688B2) lateral adjustment feature of +/- 3/16" (5 mm) for system width is available at the side jamb. This allows for consistent seal compression within system.



### MINIMAL SIGHTLINE EQUALS INCREASED TRANSPARENCY

Panel frames are slim and contemporary with a total 3 7/8" (99 mm) junction where two adjacent folding vertical stiles meet. Top and bottom rails are a minimal 2 5/8" (67 mm), providing slim-line aesthetics. Panel depth is 2 5/8" (67 mm). To coordinate with interior design programs, horizontal mullions are possible.


### SWING DOORS FOR TRAFFIC MANAGEMENT

To accommodate traffic flow, NW Acoustical 645 allows for an up to 3' 3" (1000 mm) swing door at the side jamb at one end or both. Swing doors have been tested for 500,000 cycles without failure. For requirements of unit STC 44 or less, swing panels can be added to an odd number of panels hinged to the jamb. Optional higher kickplates, panic hardware, single motion lock operated by lever handles, and top door closers by others are possible.

### SYSTEM SIZES AND WIDER OPENINGS

Depending on the desired STC and glazing of the unit, maximum unit heights range from 9' 6" (2900 mm) to 11' 6" (3500 mm). Maximum panel widths up to 3' 3" (1000 mm) are possible. System widths are unlimited with the addition of unhinged FourFold or SixFold Panel Sets.

# NW Acoustical 645

TYPE OF TEST	RESULTS
 <b>Acoustical Performance</b> <sup>①</sup>	STC (Rw) 33 and OITC 27 achieved with STC 32 glass (15/16" [24 mm] double IGU, 4 mm tempered + 4 mm tempered)
	STC (Rw) 38 and OITC 32 achieved with STC 39 glass (1 1/8" [28 mm] double IGU, 6 mm laminated + 6 mm tempered)
	STC (Rw) 45 and OITC 37 achieved with STC 48 glass (1 7/16" [36 mm] double IGU, 12 mm enhanced laminated + 8 mm enhanced laminated) with head track recessed

① Excerpts of results of a three panel unit 9' 10" W x 8' 2" H (3000 mm x 2500 mm) tested in December 2017 by SG Bauakustik, Muelheim an der Ruhr, Germany, an EN DIN ISO accredited and certified independent testing laboratory.

Check [www.NanaWall.com](http://www.NanaWall.com) for the latest updates.

## Acoustical Performance Interpolation with Other Glazing Options

TYPE OF GLASS	GLASS ONLY STC	SURFACE MOUNTED FLUSH SILL   FLUSH SILL	
		COMPLETE SYSTEM STC (Rw)	MAXIMUM UNIT HEIGHT POSSIBLE (*)
1/4" (6 mm) tempered	31	32	11' 6" (3500 mm)
1/4" (6 mm) laminated	35	35	11' 6" (3500 mm)
1/4" (6 mm) enhanced laminated	36	36	11' 6" (3500 mm)
3/8" (10 mm) enhanced laminated	38	37	11' 6" (3500 mm)
1/2" (12 mm) enhanced laminated	39	38	11' 6" (3500 mm)
1 7/16" (36 mm) double IGU, 6 mm enhanced laminated + 6 mm enhanced laminated	45	42	11' 6" (3500 mm)
		43 (with head track recessed)	
1 5/8" (42 mm) double IGU, 8 mm enhanced laminated + 8 mm enhanced laminated	47	43	10' 2" (3100 mm)
		44 (with head track recessed)	
1 9/16" (40 mm) double IGU, 10 mm enhanced laminated + 8 mm enhanced laminated	48	44	9' 6" (2900 mm)
		45 (with head track recessed)	

### NOTES

(\*) can vary, dependent on weight of the glass

Contact NanaWall for other glass types.



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