

# HTS

FRAME SERIES



PERFORMANCE  
SPECIFICATIONS.



### > HTS Window - Fixed

Characteristic	Standards	Class	Assessment of Classification
<b>Air Permeability *</b>	EN 1026 (Test)	4	Airtight up to pressure of 600 Pa (12.5 psf)
	EN 12207 (Classification)		Airtight up to wind speed of 112 km/h (69.6 mph) Joint Permeability → 0.75 m <sup>3</sup> /hm Overall Area Permeability → 3.0 m <sup>3</sup> /hm <sup>2</sup>
<b>Water Permeability *</b> A → Non-shielded test	EN 1027 (Test)	8A	Watertight up to pressure of 450 Pa (9.4 psf)
	EN 12208 (Classification)		Watertight up to wind speed of 97 km/h (60.3 mph)
<b>Wind Load Resistance (DP)</b>	EN 12211 (Test)	C3	Frame deflection at 1200 Pa (25.1 psf) ≤ 1/300
	EN 12210 (Classification)	B3	Frame deflection at 1200 Pa (25.1 psf) ≤ 1/200
<b>Thermal Transmittance (U-value) **</b> U <sub>g</sub> → Glass Thermal Transmittance U <sub>t</sub> → Frame Thermal Transmittance	BS EN ISO 10077-1:2006		U <sub>g</sub> = 1.0 W/m <sup>2</sup> K → U <sub>t</sub> = 1.27 W/m <sup>2</sup> K
	BS EN ISO 10077-2:2012		U <sub>g</sub> = 0.17 BTU/ft <sup>2</sup> h°F → U <sub>t</sub> = 0.22 BTU/ft <sup>2</sup> h°F
	BE EN 673: 2011		
<b>Visual Transmittance **</b>	ANSI/NFRC 100-2014		VT → 0.51 - 0.65
<b>Solar Heat Gain Coefficient **</b>	ANSI/NFRC 100-2014		SHGC → 0.24 - 0.38
Test Unit Type: Fixed (no mullions) / Test Unit Size (area): 3.25 m <sup>2</sup> (34.98 ft <sup>2</sup> )			* Averaged Value    ** Dependent on Glass and Glazing Type

### > HTS Window - Single OR Double Casement (Inswing OR Outswing)

Characteristic	Standards	Class	Assessment of Classification
<b>Air Permeability *</b>	EN 1026 (Test)	4	Airtight up to pressure of 600 Pa (12.5 psf)
	EN 12207 (Classification)		Airtight up to wind speed of 112 km/h (69.6 mph) Joint Permeability → 0.75 m <sup>3</sup> /hm Overall Area Permeability → 3.0 m <sup>3</sup> /hm <sup>2</sup>
<b>Water Permeability *</b> A → Non-shielded test	EN 1027 (Test)	8A	Watertight up to pressure of 450 Pa (9.4 psf)
	EN 12208 (Classification)		Watertight up to wind speed of 97 km/h (60.3 mph)
<b>Wind Load Resistance (DP)</b>	EN 12211 (Test)	C3	Frame deflection at 1200 Pa (25.1 psf) ≤ 1/300
	EN 12210 (Classification)	B3	Frame deflection at 2000 Pa (25.1 psf) ≤ 1/200
<b>Thermal Transmittance (U-value) **</b> U <sub>g</sub> → Glass Thermal Transmittance U <sub>t</sub> → Frame Thermal Transmittance	BS EN ISO 10077-1:2006		U <sub>g</sub> = 1.0 W/m <sup>2</sup> K → U <sub>t</sub> = 1.41 W/m <sup>2</sup> K
	BS EN ISO 10077-2:2012		U <sub>g</sub> = 0.17 BTU/ft <sup>2</sup> h°F → U <sub>t</sub> = 0.25 BTU/ft <sup>2</sup> h°F
	BE EN 673: 2011		
<b>Visual Transmittance **</b>	ANSI/NFRC 100-2014		VT → 0.51 - 0.65
<b>Solar Heat Gain Coefficient **</b>	ANSI/NFRC 100-2014		SHGC → 0.24 - 0.38
Test Unit Type: Single Casement / Test Unit Size (area): 3.25 m <sup>2</sup> (34.98 ft <sup>2</sup> )			* Averaged Value    ** Dependent on Glass and Glazing Type

## &gt; HTS Window - Casement with Fixed Window (Inswing OR Outswing Casement + Fixed)

Characteristic	Standards	Class	Assessment of Classification
<b>Air Permeability *</b>	EN 1026 (Test)	4	Airtight up to pressure of 600 Pa (12.5 psf)
	EN 12207 (Classification)		Airtight up to wind speed of 112 km/h (69.6 mph) Joint Permeability → 0.75 m <sup>3</sup> /hm Overall Area Permeability → 3.0 m <sup>3</sup> /hm <sup>2</sup>
<b>Water Permeability *</b> A → Non-shielded test	EN 1027 (Test)	8A	Watertight up to pressure of 450 Pa (9.4 psf)
	EN 12208 (Classification)		Watertight up to wind speed of 97 km/h (60.3 mph)
<b>Wind Load Resistance (DP)</b>	EN 12211 (Test)	C3	Frame deflection at 1200 Pa (25.1 psf) ≤ 1/300
	EN 12210 (Classification)	B3	Frame deflection at 2000 Pa (25.1 psf) ≤ 1/200
<b>Thermal Transmittance (U-value) **</b> Ug → Glass Thermal Transmittance Ut → Frame Thermal Transmittance	BS EN ISO 10077-1:2006		Ug = 1.0 W/m <sup>2</sup> K → Ut = 1.27 W/m <sup>2</sup> K
	BS EN ISO 10077-2:2012		Ug = 0.17 BTU/ft <sup>2</sup> h°F → Ut = 0.22 BTU/ft <sup>2</sup> h°F
	BE EN 673: 2011		
<b>Visual Transmittance **</b>	ANSI/NFRC 100-2014		VT → 0.51 - 0.65
<b>Solar Heat Gain Coefficient **</b>	ANSI/NFRC 100-2014		SHGC → 0.24 - 0.38

Test Unit Type: Casemt + Fixed / Test Unit Size (area): 3.25 m<sup>2</sup> (34.98 ft<sup>2</sup>)

\* Averaged Value

\*\* Dependent on Glass and Glazing Type



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