

SCOPE OF CERTIFICATION
Aluminium Window Scheme to BS4873 & PAS24:2016

Manufacturer of Enhanced Security Windows in accordance with the Exova BM TRADA Q-Mark Scheme requirements.
 (Check with Secured by Design to ensure compliance with any additional requirements).

Multifab Ltd
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This scope of certification supports
WGPS Certificate 026/178
ESW Certificate 031/172

The validity of this scope document should be checked against the current schedule of the Company's certification listed on the Exova BM TRADA website www.exovabmtrada.com.

Completed: **M. Chorlton**

Checked: **S. Hackett**

Specification: Issue: 4 Date: 11 May 2017

Issue: 2 Date: 30 Jan 2018

Details: Scope format updated to PAS 24: 2016.

Specification Reference: **W067-009**

Product Name:
AWS 60.HI Range
Outward opening, internally glazed, thermally broken aluminium multilight casement windows

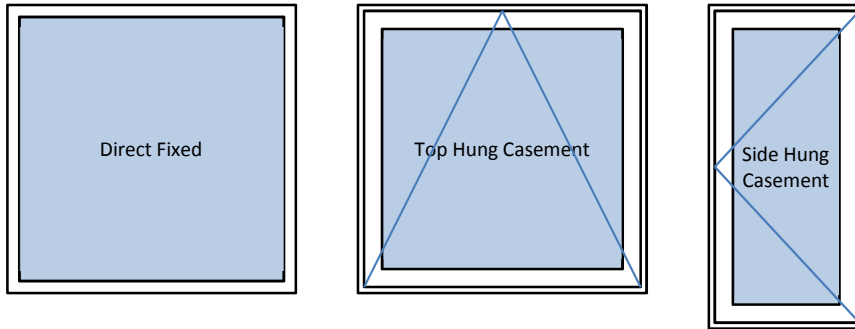
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Window Classification 'W'

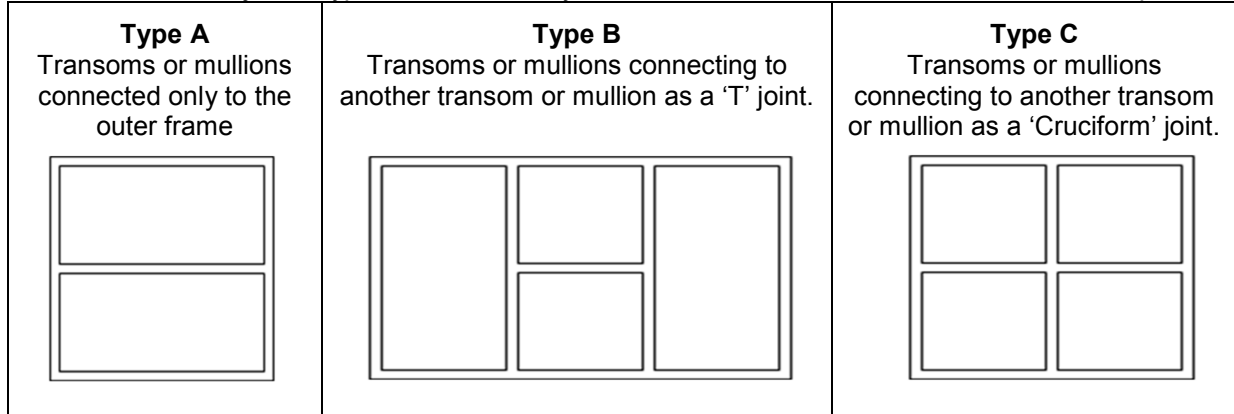
Test evidence is held on file by Exova BM TRADA

Design options

Designs shown below are diagrammatical only. Refer to minimum / maximum sizes below for clarification.



Transom and mullion joints Type A, B, C, are only allowed within window outer frames for this scope.



Weather rating

BS6375 part 1 Exposure category **2000** (on largest specimen)

Maximum casement size

Top hung (not including frame)	2000mm wide x 2000mm high x 60mm thick
Side hung (not including frame)	838mm wide x 1600mm high x 60mm thick

Maximum Frame size

Overall	2830mm wide x 2050mm high x 60mm thick
Fixed Light	2050mm wide x 2050mm high x 60mm thick

Casement /sash

	Material / type	Dimensions (mm)
Stiles and rails	SCHÜCO International KG; AWS 60 HI Thermally broken extruded aluminium	Size: 60mm x 86mm (Ref. 343 910)
Joints	Mitre cut and glued with PU adhesive (Ref. 298 354) and fixed with crimped or nailed cleats as per current SCHÜCO manual	
Adhesive	PU adhesive (Ref. 298 354)	

Window frame

	Material / type	Dimensions (mm)
Head / Jamb / Cill	SCHÜCO International KG; AWS 60 HI Thermally broken extruded aluminium	Size: 60mm x 53mm (Ref. 343 790) Size: 60mm x 58mm (Ref. 343 800) Size: 60mm x 69mm (Ref. 343 810) Size: 60mm x 69mm (Ref. 343 820) Size: 60mm x 69mm (Ref. 343 960) Size: 60mm x 78mm (Ref. 343 830) Size: 60mm x 84mm (Ref. 343 840) Size: 60mm x 84mm (Ref. 343 930) Size: 60mm x 94mm (Ref. 343 850)
Transom/ Mullion	SCHÜCO International KG; AWS 60 HI Thermally broken extruded aluminium	Size: 60mm x 82mm (Ref. 343 860) Size: 60mm x 88mm (Ref. 343 870) Size: 85mm x 88mm (Ref. 343 880) Size: 100mm x 88mm (Ref. 343 890)
Transom/ Mullion reverse insert:	SCHÜCO International KG; AWS 60 HI Thermally broken extruded aluminium	Size: 60mm x 61mm (Ref. 343 950)
Cill	Sub Cill as required	
Joints	Frame sections Mitre cut, Transom sections Profile cut and glued with PU adhesive (Ref. 298 354) and fixed with crimped or nailed cleats as per current SCHÜCO manual	
Adhesive	PU adhesive (Ref. 298 354)	

Hardware

	Make / type	Fixing details (dimensions in mm)
Hinges	SCHÜCO; Top Hung: Reference No 248 833 to 836	4mm x 16mm self tapping screws for hinge adaptors into frame & casement
	Side Hung: Reference No 247 848 to 248 848	M5 x 8mm machine screws for hinges to frame and casement hinge adaptors
Hinge protection	Not applicable	
Locking mechanism	SCHÜCO; Reference No. 248 800 (Including range of sizes within maximum casement limits)	Slot fitted into casement profile and fixed with 2No. 4.0mm x 28mm self tapping screws
Lock keeps	SCHÜCO; Reference No. 248 891 (QTY to suit lock sizes)	2off M5 x 8mm grub screws
Pull in block	SCHÜCO; Reference No. 248 853	2off M5 x 8mm grub screws into frame 1off 4mm x 25mm self tapping screws into casement
Handles	SCHÜCO; Reference No. 269040 to 269044	2off M5 x 25mm machine screws fixing into lock gearbox
	SCHÜCO; Reference No. 269220 to 269224	
	SCHÜCO; Reference No. 269070 to 269074	
	SCHÜCO; Reference No. 269370 to 269374	
	SCHÜCO; Reference No. 269080 to 269084	
Letter plate	<ul style="list-style-type: none"> Any letter plate used on a Q-Mark certified doorset must have evidence of compliance with TS 008:2015 security grade 2. Maximum aperture size: 260mm x 40mm Installation height between 400mm – 1800mm 	

Perimeter sealing details

	Make / type	Location
Casement edges	Material: EPDM (Ref. 224 769)	Glazing rebate upstand
Frame reveal	Material: EPDM (Ref. 224 310)	Glazing rebate upstand
Seal continuity	Continuous (Jointed & glued or vulcanised) on rebate upstand, uninterrupted by hardware	

Glazing

	Make / type / size (mm)	Location (dimensions in mm)
Glass configuration	<u>Total thickness</u> 26-30mm	Note: If non-locking handle is used then at least 1 pane of glass must be laminated to BS EN 356 class P1A
Glazing Clips	Internally beaded and fixed with clips ,SCHÜCO (Ref. 203 102)	
Gaskets	Material: EPDM SCHÜCO (Ref. 224 538)	Mitred with bead profiles
Sealants		
Glazing bead	Material: Extruded aluminium SCHÜCO (Ref:184 040)	
Bead fixings	Clip fixed as per SCHÜCO Manual	