

SYSTEM SUPPLIER SPECIFICATION

Q - Mark Aluminium Door Scheme

This door specification has potential to be Q-Mark certified. Refer to fabricator's Q-Mark Scope.

A door can only be referenced as Q-Mark certified when it has been fully manufactured by a fabricator who is certified in their own right under the Exova BM TRADA Q-Mark certification scheme and who will have a Q-Mark scope document created in their own name for the specific door that they wish to place on the market.

This specification document does not allow a fabricator to demonstrate compliance with Q-Mark, BS 4873, PAS 24 or Secured by Design.

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The validity of this specification document should be checked against the current schedule of the Company's certification listed on the Exova BM TRADA website

www.exovabmtrada.com

Reference should be made to the Exova BM TRADA certificate number for each fabricator placing the product on the market.

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Details: update of hinge reference

Specification Reference: **D089-003**

Product Name:

Concept Series Outward Opening Door Range
Thermally Broken Internally Glazed Aluminium
Doorset

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Doorset Classification 'D'

Test evidence is held on file by Exova BM TRADA

All Q-Mark certified doorsets must have evidence to demonstrate that the profiles, components and manufacturing procedures used meet the requirements of the appropriate material specific standards: BS 644 (timber); BS 4873 (aluminium); BS 6510 (steel); BS 7412 (PVC-U); BS 8529 (composite).

Weather rating

BS6375 part 1 Exposure category **800** (on largest specimen)

Maximum door leaf size

Open out (not including frame)

1149mm wide x 3000mm high

Door leaf

	Material/ type	Dimensions (mm)
Stiles and rails	Aluminium ref. 005.0052	103 x 68
	Aluminium ref. 005.3014	102 x 59
	Aluminium ref. 008.3052	103 x 77
	Aluminium ref. 005.2014	102 x 68
	Aluminium ref. 108.1014	102 x 77
	Aluminium ref. 208.0014	107 x 95
Meeting style	Aluminium ref. 005.1815	46 x 55
	Aluminium ref. 008.1815	46 x 59
	Aluminium ref. 108.1815	46 x 68
Joints	Mitred and jointed with adhesive, cleats and chevrons. Jointing can be either crimped or screw fixed.	-

Door frame

	Material/ type	Dimensions (mm)
Head and jambs	Aluminium ref. 005.1483	64 x 59
	Aluminium ref. 005.1425	77 x 59
	Aluminium ref. 005.1440	90 x 59
	Aluminium ref. 005.1869	68 x 59
	Aluminium ref. 005.0569	77 x 59
	Aluminium ref. 008.3483	64 x 68
	Aluminium ref. 008.3425	77 x 68
	Aluminium ref. 008.3440	90 x 68
	Aluminium ref. 008.0469	68 x 68
	Aluminium ref. 008.0569	77 x 68
	Aluminium ref. 108.0869	68 x 77
	Aluminium ref. 208.0869	82 x 95
Rebate	Single	25
	Double	11 and 35
Threshold	As head and jamb options	-
	Aluminium ref. 005.0874	18 x 59
Joints	Mitred and jointed with adhesive, cleats and chevrons. Jointing can be either crimped or screw fixed.	-

Hardware

	Make / type / positions	Size (mm)	Fixing details (dimensions in mm)
Hinges	Reynears Ref. 065.6524 alloy extrusion lift off hinges 250mm from top and bottom of door leaf and mid height of door leaf		
	Reynaers Ref. 065.6383, 065.6384, 065.6565, 065.6396 or 065.6397 barrel hinge with 060.7830 hinge protector (90 x 20)	152 high	M6 x 23 machine screws into frame and M6 x 30 machine screws to leaf
	Dr Hahn Turband 3 76.5/2 flag hinge 250mm from top and bottom and central Reynaers Ref. 065.6688	50 x 144	M6 x 20 machine screws into leaf and frame
	Dr Hahn Turband 4 two or three part flag hinges with 065.6479 hinge protector (22 x 112)	-	11.5 x 90 machine screws per blade into leaf and frame
	Dr Hahn Hidden door hinge Reynaers Ref. 065.6850	-	4No M6 machine screws into leaf and frame
Handles	Reynaers handle set Ref. 061.7237.51	125 lever	M5 machine screws
	Winkhaus Palladio	125 lever	M6 machine screws
	Reynaers Ref. 061.7130/7140	Minimum lever length 125	M5 machine screws
	Reynaers Ref. 061.7480/7481		
	Reynaers Ref. 061.7482/7483		
	Reynaers Ref. 061.7484/7485		
	Reynaers Ref. 061.7486/7487	-	
Reynaers Ref. 061.7434/7441	135 lever length		
Reynaers Purity handle	Handle back plates Ref. 061.7369 or 061.7370	Minimum lever length 125	
	Levers Ref. 061.7100, 061.7110, 061.7101 or 061.7111		
Cylinder	Avocet ABS TM 35 x 55 cylinder	Various	Supplied with cylinder
	Winkhaus XR6 51	Various	M5 x 45 machine screw
	Titon Asterion (KM631878)	Various	Supplied with cylinder
Cylinder protection	Integral to handles	-	-
Letter plate	Not tested	-	-

Perimeter sealing details

	Make/ type	Size (mm)	Location
Door edges	EPDM ref. 080.9650 and 080.9478 at corners	21.5 high	Rebate upstand
Frame reveal	EPDM Ref: 080.9650 & 080.9478 corners	21.5 high	Glazing rebate
Seal continuity	Seals uninterrupted by hardware	-	-

Lock Mechanisms

		Make / type / positions	Size (mm)	Fixing details (dimensions in mm)
Locking mechanism 1 up to leaf heights of 2500mm		Reynaers Ref. 061.7456	24 wide	4 x 20 m/c screws into leaf
Keeps	Upper & lower	Reynaers Ref. 061.7698	24 x 105	5 x 22 m/c screws into frame
	Centre	Reynaers Ref. 061.7703	25 x 190	5 x 22 m/c screws into frame
Locking mechanism 2		Winkhaus AV2 Ref. 4980929 L/H 4980930 R/H	24 wide	3.9 x 19 screws into leaf
Lock extension additional lock bolt		Reynaers Ref 1BF.821 for door leaf heights above 2500mm	24 wide	4.2 x 19 screws into leaf
Keeps	Upper & lower	Winkhaus Ref. 2904556	22 x 260	4.1 x 20 screws into frame
	Centre	Winkhaus Ref. 4988237 L/H 4988238 R/H	22 x 340	4.1 x 20 screws into frame
Locking mechanism 3 (Fuhr)		Reynaers Ref. 061.8550 or 061.8540 (Fuhr 859)	24 wide	4.2 x 19 screws into leaf
		Reynaers Ref. 061.8500, 061.8510, 61.8501 or 61.8511(Fuhr 855GL)		
Lock extension additional lock bolt		Reynaers Ref 061.8107 for door leaf heights above 2350mm	24 wide	4.2 x 19 screws into leaf
Keeps	Upper & lower	Reynaers Ref. 061.8182	24 x 150	M5 x 20 Riv-nuts and 4.2 x 19 screws into frame
	Centre	Reynaers Ref. 061.8153 or Ref. 061.8154	24 x 232	M5 x 20 Riv-nuts and 4.2 x 19 screws into frame
Locking mechanism 4 (Fuhr)		Reynaers Ref. 061.8580 or 061.8590 (Fuhr 881P)	24 wide	4.2 x 19 screws into leaf
Lock extension additional lock bolt		Reynaers Ref 061.8109 for door leaf heights above 2350mm	24 wide	4.2 x 19 screws into leaf
Keeps	Upper & lower	Reynaers Ref. 61.8188	24 x 240	M5 x 20 Riv-nuts and 4.2 x 19 screws into frame
	Centre	Reynaers Ref. 061.8153 or Ref. 061.8154	24 x 232	M5 x 20 Riv-nuts and 4.2 x 19 screws into frame
Shootbolts for double leaf options (top and bottom)		Reynaers finger operated gearbox Ref. 061.7147 with M8 bar and end piece	20 x 232	M5 x 20 Riv-nut
Shootbolt keeps		Reynaers 061.7804 socket keep	20 x 50	4.2 x 19 screws into leaf and frame

Glazing

	Make/type/size (mm)	Location (dimensions in mm)
Glass thickness	24 - 65 insulating glass unit (double glazed)	Note: If non-locking handle is used then at least 1 pane of glass must be laminated to BS EN 356 class P1A
Glazing bead	See tables below	
Gaskets	EPDM (Ref. 080.9114)	Between profile upstand and glass
	Other gaskets see tables below	Between bead and glass
Bead fixings	Clip fitted into aluminium profiles	-

CS 68 Glazing

Glazing thickness (mm)	Glazing bead fixed light	Glazing bead door leaf	Gasket between glass and bead
24	Aluminium (Ref. 030.3650)	Aluminium (Ref. 030.3670)	EPDM (Ref. 080.9126)
25	Aluminium (Ref. 030.3649)	Aluminium (Ref. 030.3669)	EPDM (Ref. 080.9128)
26	Aluminium (Ref. 030.3649)	Aluminium (Ref. 030.3669)	EPDM (Ref. 080.9128)
27	Aluminium (Ref. 030.3649)	Aluminium (Ref. 030.3669)	EPDM (Ref. 080.9126)
28	Aluminium (Ref. 030.3648)	Aluminium (Ref. 030.3668)	EPDM (Ref. 080.9128)
29	Aluminium (Ref. 030.3648)	Aluminium (Ref. 030.3668)	EPDM (Ref. 080.9128)
30	Aluminium (Ref. 030.3648)	Aluminium (Ref. 030.3668)	EPDM (Ref. 080.9126)
31	Aluminium (Ref. 030.3647)	Aluminium (Ref. 030.3667)	EPDM (Ref. 080.9128)
32	Aluminium (Ref. 030.3647)	Aluminium (Ref. 030.3667)	EPDM (Ref. 080.9128)
33	Aluminium (Ref. 030.3647)	Aluminium (Ref. 030.3667)	EPDM (Ref. 080.9126)
34	Aluminium (Ref. 030.3646)	Aluminium (Ref. 030.3666)	EPDM (Ref. 080.9128)
35	Aluminium (Ref. 030.3646)	Aluminium (Ref. 030.3666)	EPDM (Ref. 080.9128)
36	Aluminium (Ref. 030.3646)	Aluminium (Ref. 030.3666)	EPDM (Ref. 080.9126)
37	Aluminium (Ref. 030.3645)	Aluminium (Ref. 030.3665)	EPDM (Ref. 080.9128)
38	Aluminium (Ref. 030.3645)	Aluminium (Ref. 030.3665)	EPDM (Ref. 080.9128)
39	Aluminium (Ref. 030.3645)	Aluminium (Ref. 030.3665)	EPDM (Ref. 080.9126)
40	Aluminium (Ref. 030.3644)	Aluminium (Ref. 030.3664)	EPDM (Ref. 080.9128)
41	Aluminium (Ref. 030.3644)	Aluminium (Ref. 030.3664)	EPDM (Ref. 080.9128)
42	Aluminium (Ref. 030.3644)	Aluminium (Ref. 030.3664)	EPDM (Ref. 080.9126)

CS 77 Glazing

Glazing thickness (mm)	Glazing bead fixed light	Glazing bead Door leafs	Gasket between glass and bead
24	Aluminium (Ref. 030.3614)	Aluminium (Ref. 030.3634)	EPDM (Ref. 080.9124)
25	Aluminium (Ref. 030.3613)	Aluminium (Ref. 030.3633)	EPDM (Ref. 080.9126)
26	Aluminium (Ref. 030.3613)	Aluminium (Ref. 030.3633)	EPDM (Ref. 080.9125)
27	Aluminium (Ref. 030.3613)	Aluminium (Ref. 030.3633)	EPDM (Ref. 080.9124)
28	Aluminium (Ref. 030.3612)	Aluminium (Ref. 030.3632)	EPDM (Ref. 080.9126)
29	Aluminium (Ref. 030.3612)	Aluminium (Ref. 030.3632)	EPDM (Ref. 080.9125)
30	Aluminium (Ref. 030.3612)	Aluminium (Ref. 030.3632)	EPDM (Ref. 080.9124)
31	Aluminium (Ref. 030.3611)	Aluminium (Ref. 030.3631)	EPDM (Ref. 080.9126)
32	Aluminium (Ref. 030.3611)	Aluminium (Ref. 030.3631)	EPDM (Ref. 080.9125)
33	Aluminium (Ref. 030.3611)	Aluminium (Ref. 030.3631)	EPDM (Ref. 080.9124)
34	Aluminium (Ref. 030.3610)	Aluminium (Ref. 030.3630)	EPDM (Ref. 080.9126)
35	Aluminium (Ref. 030.3610)	Aluminium (Ref. 030.3630)	EPDM (Ref. 080.9125)
36	Aluminium (Ref. 030.3610)	Aluminium (Ref. 030.3630)	EPDM (Ref. 080.9124)
37	Aluminium (Ref. 030.3609)	Aluminium (Ref. 030.3629)	EPDM (Ref. 080.9126)
38	Aluminium (Ref. 030.3609)	Aluminium (Ref. 030.3629)	EPDM (Ref. 080.9125)
39	Aluminium (Ref. 030.3609)	Aluminium (Ref. 030.3629)	EPDM (Ref. 080.9124)
40	Aluminium (Ref. 030.3608)	Aluminium (Ref. 030.3628)	EPDM (Ref. 080.9126)
41	Aluminium (Ref. 030.3608)	Aluminium (Ref. 030.3628)	EPDM (Ref. 080.9126)
42	Aluminium (Ref. 030.3608)	Aluminium (Ref. 030.3629)	EPDM (Ref. 080.9125)
43	Aluminium (Ref. 030.3607)	Aluminium (Ref. 030.3628)	EPDM (Ref. 080.9124)
44	Aluminium (Ref. 030.3607)	Aluminium (Ref. 030.3628)	EPDM (Ref. 080.9126)
45	Aluminium (Ref. 030.3607)	Aluminium (Ref. 030.3628)	EPDM (Ref. 080.9125)

CS 86 Glazing

Glazing thickness (mm)	Glazing bead fixed light	Glazing bead Door leafs	Gasket between glass and bead
24	Aluminium (Ref. 030.3617)	Aluminium (Ref. 030.3637)	EPDM (Ref. 080.9124)
25	Aluminium (Ref. 030.3616)	Aluminium (Ref. 030.3636)	EPDM (Ref. 080.9126)
26	Aluminium (Ref. 030.3616)	Aluminium (Ref. 030.3636)	EPDM (Ref. 080.9125)
27	Aluminium (Ref. 030.3616)	Aluminium (Ref. 030.3636)	EPDM (Ref. 080.9124)
28	Aluminium (Ref. 030.3615)	Aluminium (Ref. 030.3635)	EPDM (Ref. 080.9126)
29	Aluminium (Ref. 030.3615)	Aluminium (Ref. 030.3635)	EPDM (Ref. 080.9125)
30	Aluminium (Ref. 030.3615)	Aluminium (Ref. 030.3635)	EPDM (Ref. 080.9124)
31	Aluminium (Ref. 030.3614)	Aluminium (Ref. 030.3634)	EPDM (Ref. 080.9126)
32	Aluminium (Ref. 030.3614)	Aluminium (Ref. 030.3634)	EPDM (Ref. 080.9125)
33	Aluminium (Ref. 030.3614)	Aluminium (Ref. 030.3634)	EPDM (Ref. 080.9124)
34	Aluminium (Ref. 030.3613)	Aluminium (Ref. 030.3633)	EPDM (Ref. 080.9126)
35	Aluminium (Ref. 030.3613)	Aluminium (Ref. 030.3633)	EPDM (Ref. 080.9125)
36	Aluminium (Ref. 030.3613)	Aluminium (Ref. 030.3633)	EPDM (Ref. 080.9124)
37	Aluminium (Ref. 030.3612)	Aluminium (Ref. 030.3632)	EPDM (Ref. 080.9126)
38	Aluminium (Ref. 030.3612)	Aluminium (Ref. 030.3632)	EPDM (Ref. 080.9125)
39	Aluminium (Ref. 030.3612)	Aluminium (Ref. 030.3632)	EPDM (Ref. 080.9124)
40	Aluminium (Ref. 030.3611)	Aluminium (Ref. 030.3631)	EPDM (Ref. 080.9126)
41	Aluminium (Ref. 030.3611)	Aluminium (Ref. 030.3631)	EPDM (Ref. 080.9125)
42	Aluminium (Ref. 030.3611)	Aluminium (Ref. 030.3631)	EPDM (Ref. 080.9124)
43	Aluminium (Ref. 030.3610)	Aluminium (Ref. 030.3630)	EPDM (Ref. 080.9126)
44	Aluminium (Ref. 030.3610)	Aluminium (Ref. 030.3630)	EPDM (Ref. 080.9125)
45	Aluminium (Ref. 030.3610)	Aluminium (Ref. 030.3630)	EPDM (Ref. 080.9124)
46	Aluminium (Ref. 030.3609)	Aluminium (Ref. 030.3629)	EPDM (Ref. 080.9126)
47	Aluminium (Ref. 030.3609)	Aluminium (Ref. 030.3629)	EPDM (Ref. 080.9125)
48	Aluminium (Ref. 030.3609)	Aluminium (Ref. 030.3629)	EPDM (Ref. 080.9124)
49	Aluminium (Ref. 030.3608)	Aluminium (Ref. 030.3628)	EPDM (Ref. 080.9126)
50	Aluminium (Ref. 030.3608)	Aluminium (Ref. 030.3628)	EPDM (Ref. 080.9125)
51	Aluminium (Ref. 030.3608)	Aluminium (Ref. 030.3628)	EPDM (Ref. 080.9124)
52	Aluminium (Ref. 030.3607)	Aluminium (Ref. 030.3627)	EPDM (Ref. 080.9126)
53	Aluminium (Ref. 030.3607)	Aluminium (Ref. 030.3627)	EPDM (Ref. 080.9125)
54	Aluminium (Ref. 030.3607)	Aluminium (Ref. 030.3627)	EPDM (Ref. 080.9124)

CS 104 Glazing

Glazing thickness (mm)	Glazing bead fixed light	Glazing bead Door leafs	Gasket between glass and bead
24	-	Aluminium (Ref. 030.3619)	EPDM (Ref. 080.9130)
25	-	Aluminium (Ref. 030.3619)	EPDM (Ref. 080.9128)
26	Aluminium (Ref. 030.3619)	Aluminium (Ref. 030.3619)	EPDM (Ref. 080.9128)
27	Aluminium (Ref. 030.3619)	Aluminium (Ref. 030.3619)	EPDM (Ref. 080.9128)
28	Aluminium (Ref. 030.3619)	Aluminium (Ref. 030.3619)	EPDM (Ref. 080.9128)
29	Aluminium (Ref. 030.3619)	Aluminium (Ref. 030.3619)	EPDM (Ref. 080.9128)
30	Aluminium (Ref. 030.3619)	Aluminium (Ref. 030.3619)	EPDM (Ref. 080.9128)
31	Aluminium (Ref. 030.3619)	Aluminium (Ref. 030.3619)	EPDM (Ref. 080.9126)
32	Aluminium (Ref. 030.3619)	Aluminium (Ref. 030.3619)	EPDM (Ref. 080.9126)
33	Aluminium (Ref. 030.3618)	Aluminium (Ref. 030.3619)	EPDM (Ref. 080.9125)
34	Aluminium (Ref. 030.3618)	Aluminium (Ref. 030.3619)	EPDM (Ref. 080.9126)
35	Aluminium (Ref. 030.3618)	Aluminium (Ref. 030.3619)	EPDM (Ref. 080.9125)
36	Aluminium (Ref. 030.3617)	Aluminium (Ref. 030.3619)	EPDM (Ref. 080.9124)
37	Aluminium (Ref. 030.3617)	Aluminium (Ref. 030.3618)	EPDM (Ref. 080.9126)
38	Aluminium (Ref. 030.3617)	Aluminium (Ref. 030.3618)	EPDM (Ref. 080.9125)
39	Aluminium (Ref. 030.3616)	Aluminium (Ref. 030.3618)	EPDM (Ref. 080.9124)
40	Aluminium (Ref. 030.3616)	Aluminium (Ref. 030.3617)	EPDM (Ref. 080.9126)
41	Aluminium (Ref. 030.3616)	Aluminium (Ref. 030.3617)	EPDM (Ref. 080.9125)
42	Aluminium (Ref. 030.3615)	Aluminium (Ref. 030.3617)	EPDM (Ref. 080.9124)
43	Aluminium (Ref. 030.3615)	Aluminium (Ref. 030.3616)	EPDM (Ref. 080.9126)
44	Aluminium (Ref. 030.3615)	Aluminium (Ref. 030.3616)	EPDM (Ref. 080.9125)
45	Aluminium (Ref. 030.3614)	Aluminium (Ref. 030.3616)	EPDM (Ref. 080.9124)
46	Aluminium (Ref. 030.3614)	Aluminium (Ref. 030.3615)	EPDM (Ref. 080.9126)
47	Aluminium (Ref. 030.3614)	Aluminium (Ref. 030.3615)	EPDM (Ref. 080.9125)
48	Aluminium (Ref. 030.3613)	Aluminium (Ref. 030.3615)	EPDM (Ref. 080.9124)
49	Aluminium (Ref. 030.3613)	Aluminium (Ref. 030.3614)	EPDM (Ref. 080.9126)
50	Aluminium (Ref. 030.3613)	Aluminium (Ref. 030.3614)	EPDM (Ref. 080.9125)
51	Aluminium (Ref. 030.3612)	Aluminium (Ref. 030.3614)	EPDM (Ref. 080.9124)
52	Aluminium (Ref. 030.3612)	Aluminium (Ref. 030.3613)	EPDM (Ref. 080.9126)
53	Aluminium (Ref. 030.3612)	Aluminium (Ref. 030.3613)	EPDM (Ref. 080.9125)
54	Aluminium (Ref. 030.3611)	Aluminium (Ref. 030.3613)	EPDM (Ref. 080.9124)
55	Aluminium (Ref. 030.3611)	Aluminium (Ref. 030.3612)	EPDM (Ref. 080.9126)
56	Aluminium (Ref. 030.3611)	Aluminium (Ref. 030.3612)	EPDM (Ref. 080.9125)
57	Aluminium (Ref. 030.3610)	Aluminium (Ref. 030.3612)	EPDM (Ref. 080.9124)
58	Aluminium (Ref. 030.3610)	Aluminium (Ref. 030.3611)	EPDM (Ref. 080.9126)
59	Aluminium (Ref. 030.3610)	Aluminium (Ref. 030.3611)	EPDM (Ref. 080.9125)
60	Aluminium (Ref. 030.3609)	Aluminium (Ref. 030.3611)	EPDM (Ref. 080.9124)
61	Aluminium (Ref. 030.3609)	Aluminium (Ref. 030.3610)	EPDM (Ref. 080.9126)
62	Aluminium (Ref. 030.3609)	Aluminium (Ref. 030.3610)	EPDM (Ref. 080.9125)
63	Aluminium (Ref. 030.3608)	Aluminium (Ref. 030.3610)	EPDM (Ref. 080.9124)
64	Aluminium (Ref. 030.3608)	Aluminium (Ref. 030.3609)	EPDM (Ref. 080.9126)
65	Aluminium (Ref. 030.3608)	Aluminium (Ref. 030.3609)	EPDM (Ref. 080.9125)