



Specification Clauses for Revolution 54

K30: Panel Partitions

1 November 2016

Specifications

K30 – Panel Partitions (Single Glazed) Revolution 54

130 RELOCATABLE PARTITION SYSTEM

(Insert description or location / usage)

• **Manufacturer:**

- Optima Products Ltd, Mill Road, Radstock, Nr. Bath BA3 5TX
- Optima Contracting Limited, Courtyard House, West End Road, High Wycombe HP11 2QB
(Insert Sales Contact Details)
OSCA Reference: (insert number)

• **Product Reference:**

- Optima Revolution 54 Single Glazed Partition System

• **Strength Grade:**

- Duty Rating to BS5234-2 not applicable to Frameless Glazed Partitioning
System designed for category of use: (Insert from following options)
 - o Uncongested Office Space – 0.36kN/m line load
 - o Congested Office Space – 0.74kN/m line load
 - o Public Access Space – 0.74kN/m line load
 - o Public Access Space – 1.50kN/m line load

- Maximum allowable deflection under the line load: (Insert from following options)
L/120 or 25mm (whichever is least)
L/65 or 50mm (whichever is least)

• **Fire Resistance of complete system to BS476 – 22:**

- Not applicable

• **Fire Rating for Panels:**

- Not applicable

• **Sound Insulation to BS EN ISO 10140 - 2 and ISO 717-1: (Insert from following options)**

- 32dB (R_w) - 10mm toughened glass - Estimated
- 33dB (R_w) - 12mm toughened glass - Lab Tested – see Performance Certificate 054068
- 35dB (R_w) - 10.8mm laminate glass - Estimated
- 36dB (R_w) - 12.8mm laminate glass - Estimated
- 37dB (R_w) - 10.8mm acoustic laminate glass - Estimated
- 38dB (R_w) - 12.8mm acoustic laminate glass - Lab Tested – see Performance Certificate 054069
- Aggregate screen value (partition plus door set): [Insert Value dB(R_w)]

• **Partition Height:**

- (Insert floor to ceiling height. NOTE: Maximum standard height 3000mm)

• **Partition Abutments:**

- Head detail (Deflection allowance): (Insert from following options)
 - 054006-02 - 25mm deep Offset glazed (no deflection)
 - 054006-03 - 25mm deep Central glazed (no deflection)
 - 054006-04 - Door head
 - 054007-02 - 50mm deep Offset glazed (no deflection)
 - 054007-03 - 50mm deep Central glazed (no deflection)
 - 054007-04 - Door head
 - 054002-02 - 90mm deep Offset glazed (± 25 mm deflection – internal)
 - 054002-03 - 90mm deep Central glazed (± 25 mm deflection – internal)
 - 054002-04 - Door head
 - 054003-02 - 94mm deep Offset glazed (± 25 mm deflection – external)
 - 054003-03 - 94mm deep Central glazed (± 25 mm deflection – external)
 - 054003-04 - Door head
 - 054004-02 - 137mm deep Offset glazed (± 40 mm deflection – internal)
 - 054004-03 - 137mm deep Central glazed (± 40 mm deflection – internal)
 - 054004-04 - Door head
 - 054005-02 - 140mm deep Offset glazed (± 40 mm deflection – external)
 - 054005-03 - 140mm deep Central glazed (± 40 mm deflection – external)
 - 054005-04 - Door head

- Floor detail: **(Insert from following options)**
 - 054008-02 - 25mm deep Offset glazed
 - 054008-03 - 25mm deep Central glazed
 - 054009-05 - 50mm deep Offset glazed
 - 054009-06 - 50mm deep Central glazed
- Wall detail: **(Insert from following options)**
 - 054010-02 - 25mm deep Offset glazed
 - 054010-03 - 25mm deep Central glazed
 - 054011-02 - 25mm deep Offset glazed with clip-on beads
 - 054011-03 - 25mm deep Central glazed with clip-on beads
 - 054012-02 - 50mm deep Offset glazed
 - 054012-03 - 50mm deep Central glazed
 - 054013-02 - 50mm deep Offset glazed with clip-on beads
 - 054013-03 - 50mm deep Central glazed with clip-on beads
 - 054013-04 - Door Frame Spacer for D450 Frame
 - 054014-02 - ±25mm horizontal deflection Offset Glazed
 - 054014-03 - ±25mm horizontal deflection Central Glazed
 - 054025-02 - Tapeable glazing bar to 122mm generic drywall Offset glazed
 - 054026-01 - Tapeable glazing bar to 122mm generic drywall Central glazed
 - 054027-02 - Tapeable glazing bar to 100mm generic drywall Offset glazed
 - 054028-01 - Tapeable glazing bar to 100mm generic drywall Central glazed
- **Framing:**
 - Aluminium extruded track sections
- **Glazing Junctions / Corners:**
 - Glass-to-glass joints: **(Insert from following options)**
 - 054030-02 - SA Aluminium in-line joint
 - 054031-04 - SA Aluminium 3-way joint
 - 054030-06 - SA Aluminium 90° corner joint
 - 054030-01 - Nebula™ in-line joint
 - 054031-02 - Nebula™ 3-way joint
 - 054030-05 - Mitred & Taped 90° corner joint
 - 054030-03 - Ghost in-line joint
 - 054031-05 - Ghost 3-way joint
 - 054030-07 - Ghost 90° corner joint
 - 054030-04 - Taped in-line joint
 - 054031-01 - Taped 3-way joint
 - 054030-08 - Taped 90° corner joint
 - 054031-03 - Taped 3-way to Aluminium In-Line Joint
- **Skirtings/Sills:**
 - Not applicable: Refer framing clause and floor abutment clause
- **Trims:**
 - Not applicable: Refer framing clause and head / floor / wall abutment clauses
- **Solid Panels:**
 - Not applicable: Refer Glazed Panels clauses
- **Glazing:**
 - Full height, dry jointed and dry glazed with: **(Insert from following options)**
 - 10mm toughened glass
 - 12mm toughened glass
 - 10.8mm laminate glass
 - 12.8mm laminate glass
 - 10.8mm acoustic laminate glass
 - 12.8mm acoustic laminate glass
- **Manifestation:**
 - To architects choice and in accordance with the requirements of Approved Document K: **(Insert description)**
- **Blinds:**
 - Not applicable

- **Door sets:**
 - Integral Microflush D450 aluminium door frame with 50mm face and leaf set: **(Insert from following options)**
 - AXILE Clarity* frameless single glazed leaf on offset Quad pivots - Lab Tested to 32dB (R_w) with suitable threshold seal - See Performance Certificate 900185
 - AXILE Clarity* frameless single glazed leaf on lift-off hinges - Lab Tested to 32dB (R_w) with drop seal – See Performance Certificate 900253
 - AXILE Flush-Bond* frameless double glazed leaf on offset pivots - Lab Tested to 33dB (R_w) with suitable threshold seal – See Performance Certificate 900186
 - EDGE Symmetry* single glazed leaf on offset pivots/hinges - Lab Tested to 35dB (R_w) – See Performance Certificate 900254
 - EDGE Symmetry* double glazed leaf on offset pivots/hinges - Lab Tested to 41dB (R_w) – See Performance Certificate 900256
 - EDGE Affinity* single glazed leaf on offset pivots/hinges - Lab Tested to 39dB (R_w) – See Performance Certificate 900257
 - EDGE Affinity* double glazed leaf on offset pivots/hinges - Lab Tested to 42dB (R_w) – See Performance Certificate 900258
 - Timber 44mm leaf on offset pivots/hinges - Lab Tested up to 31dB (R_w) – See Performance Certificate 900187
 - Timber 54mm rebated leaf on offset pivots/hinges - Lab Tested up to 33dB (R_w) – See Performance Certificates 900188 & 900195
- **Vision Panels:**
 - Not applicable
- **Ironmongery:**
 - To architects choice, from Optima standard ironmongery suite: **(Insert description)**
- **Cable Management / Outlets:**
 - Not applicable
- **Accessories:**
 - **(Insert special requirements)** Refer to Optima for advice
- **Other Requirements:**
 - Sustainability – System to conform to the requirements of **(Insert from following options)**
 - o SKA – Compliant with Good Practice Measure M09 – Ref. Sustainability Statement 054300
 - o BREEAM – Satisfies a rating of A+ against Green Guide Ratings 2008 – Ref. Sustainability Statement 054303
 - BIM – System to come complete with Revit models to LOD 500
 - **(Insert special requirements)** Refer to Optima for advice
- **Finish / Colour:**
 - To architects choice from Optima standard range: **(Insert from following options)**
 - Powder coat RAL 9010 White (nom. 50 microns, 30% gloss)
 - Powder coat RAL 9006 Silver (nom. 50 microns, 30% gloss)
 - Powder coat non - standard colour (Refer to Optima for advice)
 - Anodised 25 microns thickness (Refer to Optima for advice)
 - Grained, Brightened and Protective Anodised (Refer to Optima for advice)
 - Polished, Brightened and Protective Anodised (Refer to Optima for advice)

K30 – Panel Partitions (Double Glazed) Revolution 54

130 RELOCATABLE PARTITION SYSTEM

(Insert description or location / usage)

• **Manufacturer:**

- Optima Products Ltd, Mill Road, Radstock, Nr. Bath BA3 5TX
- Optima Contracting Limited, Courtyard House, West End Road, High Wycombe HP11 2QB

(Insert Sales Contact Details)

OSCA Reference: (insert number)

• **Product Reference:**

- Optima Revolution 54 Double Glazed Partition System

• **Strength Grade:**

- Duty Rating to BS5234-2 not applicable to Frameless Glazed Partitioning

System designed for category of use: (Insert from following options)

- Uncongested Office Space – 0.36kN/m line load
- Congested Office Space – 0.74kN/m line load
- Public Access Space – 0.74kN/m line load
- Public Access Space – 1.50kN/m line load

- Maximum allowable deflection under the line load: (Insert from following options)
L/120 or 25mm (whichever is least)
L/65 or 50mm (whichever is least)

• **Fire Resistance of complete system to BS476 – 22:**

- Not applicable

• **Fire Rating for Panels:**

- Not applicable

• **Sound Insulation to BS EN ISO 10140 - 2 and ISO 717-1: (Insert from following options)**

- 38dB (R_w) - 2 x 10mm Toughened
- 38dB (R_w) - 10mm toughened glass + 12mm toughened glass - Assessed against lab test data – see Performance Certificate 054082
- 38dB (R_w) - 12mm toughened glass + 12mm toughened glass - Assessed against lab test data – see Performance Certificate 054099
- 39dB (R_w) - 10mm toughened glass + 10.8mm laminate glass - Assessed against lab test data – see Performance Certificate 054093
- 39dB (R_w) - 10mm toughened glass + 12.8mm laminate glass - Assessed against lab test data – see Performance Certificate 054086
- 39dB (R_w) - 12mm toughened glass + 10.8mm laminate glass - Assessed against lab test data – see Performance Certificate 054083
- 39dB (R_w) - 12mm toughened glass + 12.8mm laminate glass - Assessed against lab test data – see Performance Certificate 054098
- 40dB (R_w) - 2 x 10.8mm laminate glass - Assessed against lab test data – see Performance Certificate 054095
- 40dB (R_w) - 10.8mm laminate glass + 12.8mm laminate glass - Assessed against lab test data – see Performance Certificate 054087
- 40dB (R_w) - 2 x 12.8mm laminate glass - Assessed against lab test data – see Performance Certificate 054085
- 41dB (R_w) - 10mm toughened glass + 10.8mm acoustic laminate glass - Assessed against lab test data – see Performance Certificate 054094
- 41dB (R_w) - 10mm toughened glass + 12.8mm acoustic laminate glass - Assessed against lab test data – see Performance Certificate 054089
- 41dB (R_w) - 12mm toughened glass + 10.8mm acoustic laminate glass - Assessed against lab test data – see Performance Certificate 054084
- 41dB (R_w) - 12mm toughened glass + 12.8mm acoustic laminate glass - Lab Tested – see Performance Certificate 054070
- 42dB (R_w) - 10.8mm laminate glass + 10.8mm acoustic laminate glass - Assessed against lab test data – see Performance Certificate 054096

- 42dB (R_w) - 10.8mm laminate glass + 12.8mm acoustic laminate glass - Assessed against lab test data – see Performance Certificate 054090
- 42dB (R_w) - 12.8mm laminate glass + 10.8mm acoustic laminate glass - Assessed against lab test data – see Performance Certificate 054088
- 42dB (R_w) - 12.8mm laminate glass + 12.8mm acoustic laminate glass - Lab Tested – see Performance Certificate 054071
- 44dB (R_w) - 2 x 10.8mm acoustic laminate glass - Assessed against lab test data – see Performance Certificate 054097
- 44dB (R_w) - 10.8mm acoustic laminate glass + 12.8mm acoustic laminate glass - Assessed against lab test data – see Performance Certificate 054091
- 44dB (R_w) - 2 x 12.8mm acoustic laminate glass - Lab Tested – see Performance Certificate 054072
- 45dB (R_w) - 2 x 12.8mm acoustic laminate glass - Lab Tested – see Performance Certificate 054074
- 46dB (R_w) - 2 x 12.8mm acoustic laminate glass (single module fin) - Lab Tested – see Performance Certificate 054073
- Aggregate screen value (partition plus door set): **[Insert Value dB(R_w)]**
- **Partition Height:**
 - **(Insert floor to ceiling height. NOTE: Maximum standard height 3000mm)**
- **Partition Abutments:**
 - Head detail (Deflection allowance): **(Insert from following options)**
 - 054006-01 - 25mm deep (no deflection)
 - 054006-04 - Door head
 - 054007-01 - 50mm deep (no deflection)
 - 054007-04 - Door head
 - 054002-01 - 90mm deep (±25mm deflection – internal)
 - 054002-04 - Door head
 - 054003-01 - 94mm deep (±25mm deflection – external)
 - 054003-04 - Door head
 - 054004-01 - 137mm deep (±40mm deflection – internal)
 - 054004-04 - Door head
 - 054005-01 - 140mm deep (±40mm deflection – external)
 - 054005-04 - Door head
 - Floor detail: **(Insert from following options)**
 - 054008-01 - 25mm deep
 - 054009-04 - 50mm deep
 - Wall detail: **(Insert from following options)**
 - 054010-01 - 25mm deep
 - 054011-01 - 25mm deep with clip-on beads
 - 054012-01 - 50mm deep
 - 054013-01 - 50mm deep with clip-on beads
 - 054013-04 - Door Frame Spacer for D450 Frame
 - 054014-01 - ±25mm horizontal deflection
 - 054025-01 - Tapeable glazing bar to 122mm generic drywall
 - 054027-01 - Tapeable glazing bar to 100mm generic drywall
- **Framing:**
 - Aluminium extruded track sections
- **Glazing Junctions / Corners:**
 - Glass-to-glass joints: **(Insert from following options)**
 - 054030-02 - SA Aluminium in-line joint
 - 054031-04 - SA Aluminium 3-way joint
 - 054030-06 - SA Aluminium 90° corner joint
 - 054030-01 - Nebula™ in-line joint
 - 054031-02 - Nebula™ 3-way joint
 - 054030-05 - Mitred & Taped 90° corner joint
 - 054030-03 - Ghost in-line joint
 - 054031-05 - Ghost 3-way joint
 - 054030-07 - Ghost 90° corner joint
 - 054030-04 - Taped in-line joint

- 054031-01 - Taped 3-way joint
- 054030-08 - Taped 90° corner joint
- 054031-03 - Taped 3-way to Aluminium In-Line Joint
- **Skirtings/Sills:**
 - Not applicable: Refer framing clause and floor abutment clause
- **Trims:**
 - Not applicable: Refer framing clause and head / floor / wall abutment clauses
- **Solid Panels:**
 - Not applicable: Refer Glazed Panels clauses
- **Glazing:**
 - Full height, dry jointed and dry glazed with: (Insert from following options)
 - 2 x 10mm Toughened
 - 10mm toughened glass + 12mm toughened glass
 - 12mm toughened glass + 12mm toughened glass
 - 10mm toughened glass + 10.8mm laminate glass
 - 10mm toughened glass + 12.8mm laminate glass
 - 12mm toughened glass + 10.8mm laminate glass
 - 12mm toughened glass + 12.8mm laminate glass
 - 2 x 10.8mm laminate glass
 - 10.8mm laminate glass + 12.8mm laminate glass
 - 2 x 12.8mm laminate glass
 - 10mm toughened glass + 10.8mm acoustic laminate glass
 - 10mm toughened glass + 12.8mm acoustic laminate glass
 - 12mm toughened glass + 10.8mm acoustic laminate glass
 - 12mm toughened glass + 12.8mm acoustic laminate glass
 - 10.8mm laminate glass + 10.8mm acoustic laminate glass
 - 10.8mm laminate glass + 12.8mm acoustic laminate glass
 - 12.8mm laminate glass + 10.8mm acoustic laminate glass
 - 12.8mm laminate glass + 12.8mm acoustic laminate glass
 - 2 x 10.8mm acoustic laminate glass
 - 10.8mm acoustic laminate glass + 12.8mm acoustic laminate glass
 - 2 x 12.8mm acoustic laminate glass
- **Manifestation:**
 - To architects choice and in accordance with the requirements of Approved Document K: (Insert description)
- **Blinds:**
 - Not applicable
- **Door sets:**
 - Integral Microflush D450 aluminium door frame with 50mm face and leaf set: (Insert from following options)
 - AXILE Clarity* frameless single glazed leaf on offset Quad pivots - Lab Tested to 32dB (R_w) with suitable threshold seal - See Performance Certificate 900185
 - AXILE Clarity* frameless single glazed leaf on lift-off hinges - Lab Tested to 32dB (R_w) with drop seal – See Performance Certificate 900253
 - AXILE Flush-Bond* frameless double glazed leaf on offset pivots - Lab Tested to 33dB (R_w) with suitable threshold seal – See Performance Certificate 900186
 - EDGE Symmetry* single glazed leaf on offset pivots/hinges - Lab Tested to 35dB (R_w) – See Performance Certificate 900254
 - EDGE Symmetry* double glazed leaf on offset pivots/hinges - Lab Tested to 41dB (R_w) – See Performance Certificate 900256
 - EDGE Affinity* single glazed leaf on offset pivots/hinges - Lab Tested to 39dB (R_w) – See Performance Certificate 900257
 - EDGE Affinity* double glazed leaf on offset pivots/hinges - Lab Tested to 42dB (R_w) – See Performance Certificate 900258
 - Timber 44mm leaf on offset pivots/hinges - Lab Tested up to 31dB (R_w) – See Performance Certificate 900187

- Timber 54mm rebated leaf on offset pivots/hinges - Lab Tested up to 33dB (R_w) – See Performance Certificates 900188 & 900195
- *AXILE Conceal* integral rebated flush door – Lab Tested to 32dB (R_w) – See Performance Certificate 054108
- *AXILE Harmony* integral square-edge flush door – Lab Tested to 32dB (R_w) – See Performance Certificate 054115
- **Vision Panels:**
 - Not applicable
- **Ironmongery:**
 - To architects choice, from Optima standard ironmongery suite: **(Insert description)**
- **Cable Management / Outlets:**
 - Not applicable
- **Accessories:**
 - **(Insert special requirements)** Refer to Optima for advice
- **Other Requirements:**
 - Sustainability – System to conform to the requirements of **(Insert from following options)**
 - SKA – Compliant with Good Practice Measure M09 – Ref. Sustainability Statement 054300
 - BREEAM – Satisfies a rating of A against Green Guide Ratings 2008 – Ref. Sustainability Statement 054301
 - BIM – System to come complete with Revit models to LOD 500
 - **(Insert special requirements)** Refer to Optima for advice
- **Finish / Colour:**
 - To architects choice from Optima standard range: **(Insert from following options)**
 - Powder coat RAL 9010 White (nom. 50 microns, 30% gloss)
 - Powder coat RAL 9006 Silver (nom. 50 microns, 30% gloss)
 - Powder coat non - standard colour (Refer to Optima for advice)
 - Anodised 25 microns thickness (Refer to Optima for advice)
 - Grained, Brightened and Protective Anodised (Refer to Optima for advice)
 - Polished, Brightened and Protective Anodised (Refer to Optima for advice)

Appendix A Amendment Record

Amendment Date	Details	How Communicated	Authorized by
18 March 2013	First issue	E-mail to Optima Sales & Estimating Departments	P. Long
23 March 2014	Layout compacted	E-mail to Optima Sales & Estimating Departments	P. Long
24 April 2015	Door set options updated	E-mail to Optima Sales & Estimating Departments	P. Long
1 Nov 2016	Re-Format	E-mail to Optima Sales & Estimating Departments	P. Long