





**Specification Clauses for Revolution 100**

K30: Panel Partitions

1 November 2016

**Specifications**



**K30 – Panel Partitions (Single Glazed)**

**Revolution 100**

**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)

* **Product Reference:**
* Optima Revolution 100 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)

* 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)
* 33dB (Rw) - 10mm toughened glass - Estimate
* 34dB (Rw) - 12mm toughened glass - Lab Tested – see Performance Certificate 100055
* 35dB (Rw) - 15mm toughened glass - Lab Tested – see Performance Certificate 100058
* 35dB (Rw) - 10.8mm laminate glass - Estimate
* 36dB (Rw) - 12.8mm laminate glass - Estimate
* 36dB (Rw) - 10.8mm acoustic laminate glass - Lab Tested – see Performance Certificate 100054
* 38dB (Rw) - 12.8mm acoustic laminate glass - Lab Tested – see Performance Certificate 100056
* 39dB (Rw) - 14.8mm acoustic laminate glass - Lab Tested – see Performance Certificate 100057
* 40dB (Rw) - 16.8mm acoustic laminate glass - Lab Tested – see Performance Certificate 100059
* **Partition Height:**
* (Insert floor to ceiling height. NOTE: Maximum standard height 3000mm)
* **Partition Abutments:**
* Head detail: (Insert from following options)

100002-03 - 25mm deep (no deflection) for up to 12.8mm glass

100002-04 - 25mm deep (no deflection) for up to 16.8mm glass

100003-03 - 50mm deep (no deflection) for up to 12.8mm glass

100003-04 - 50mm deep (no deflection) for up to 16.8mm glass

100004-03 - 90mm deep (±25mm deflection – internal) for up to 12.8mm glass

100004-04 - 90mm deep (±25mm deflection – internal) for up to 16.8mm glass

100005-03 - 94mm deep (±25mm deflection – external) for up to 12.8mm glass

100005-04 - 94mm deep (±25mm deflection – external) for up to 16.8mm glass

100006-03 - 135mm deep (±40mm deflection – internal) for up to 12.8mm glass

100006-04 - 135mm deep (±40mm deflection – internal) for up to 16.8mm glass

100007-03 - 140mm deep (±40mm deflection – external) for up to 12.8mm glass

100007-04 - 140mm deep (±40mm deflection – external) for up to 16.8mm glass

* Floor detail: (Insert from following options)

100008-03 - 25mm deep for up to 12.8mm glass

100008-04 - 25mm deep for up to 16.8mm glass

100009-03 - 50mm deep for up to 12.8mm glass

100009-04 - 50mm deep for up to 16.8mm glass

* Wall detail: (Insert from following options)

100011-03 - 25mm deep with clip-on bead for up to 12.8mm glass

100011-04 - 25mm deep with clip-on bead for up to 16.8mm glass

100012-03 - 25mm deep for up to 12.8mm glass

100012-04 - 25mm deep for up to 16.8mm glass

100013-03 - 50mm deep with clip-on bead for up to 12.8mm glass

100013-04 - 50mm deep with clip-on bead for up to 16.8mm glass

100014-03 - 50mm deep for up to 12.8mm glass

100014-04 - 50mm deep for up to 16.8mm glass

100016-01 - Door Frame Spacer for D660 Frame

100016-02 - Door Frame Spacer for D665 Frame

* Transom detail: (Insert from following options)

100010-03 - 50mm deep for up to 12.8mm glass

100010-04 - 50mm deep for up to 16.8mm glass

* Mullion detail: (Insert from following options)

100015-03 - 50mm wide for up to 12.8mm glass

100015-04 - 50mm wide for up to 16.8mm glass

* **Framing:**
* Aluminium extruded track sections
* **Glazing Junctions/Corners:**
* Glass-to-glass joints: (Insert from following options)

100029-01 - Nebula dry butt-joint

100029-02 - SA Aluminium dry butt-joint

100029-03 - Ghost dry butt-joint

100029-04 - Taped dry butt-joint

100029-05 - 90° mitred taped dry corner joint

100029-06 - SA Aluminium dry corner joint

100029-07 - Ghost dry corner joint

100029-08 - 90° taped dry corner joint

100030-01 - Taped 3-way to plain glass

100030-02 - Taped 3-way to Nebula joint

100030-03 - Taped 3-way to SA Aluminium joint

100030-04 - SA Aluminium 3-way joint

100030-05 - Ghost 3-way 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 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

14.8mm acoustic laminate glass

15mm toughened glass

16.8mm 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 D665 aluminium door frame with 65mm face and leaf set: (Insert from following options)

*AXILE Clarity* frameless single glazed leaf on offset Quad pivots - Lab Tested to 32dB (Rw) with suitable threshold seal - See Performance Certificate 900185

*AXILE Clarity* frameless single glazed leaf on lift-off hinges - Lab Tested to 32dB (Rw) with drop seal – See Performance Certificate 900253

*AXILE Flush-Bond* frameless double glazed leaf on offset pivots - Lab Tested to 33dB (Rw) with suitable threshold seal – See Performance Certificate 900186

*EDGE Symmetry* single glazed leaf on offset pivots/hinges - Lab Tested to 35dB (Rw) – See Performance Certificate 900254

*EDGE Symmetry* double glazed leaf on offset pivots/hinges - Lab Tested to 41dB (Rw) – See Performance Certificate 900256

*EDGE Affinity* single glazed leaf on offset pivots/hinges - Lab Tested to 39dB (Rw) – See Performance Certificate 900257

*EDGE Affinity* double glazed leaf on offset pivots/hinges - Lab Tested to 42dB (Rw) – See Performance Certificate 900258

Timber 44mm leaf on offset pivots/hinges - Lab Tested up to 31dB (Rw) – See Performance Certificate 900187

Timber 54mm rebated leaf on offset pivots/hinges - Lab Tested up to 33dB (Rw) – 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)
* SKA – Compliant with Good Practice Measure M09 – Ref. Sustainability Statement 100300
* BREEAM – Satisfies a rating of A+ against Green Guide Ratings 2008 – Ref. Sustainability Statement 100302
* 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 100**

**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 100 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)
* 45dB (Rw) - 12mm toughened glass + 12mm toughened glass - Assessed against lab test data – see Performance Certificate 100060
* 48dB (Rw) - 12mm toughened glass + 12.8mm acoustic laminate glass - Lab Tested – see Performance Certificate 100061
* 49dB (Rw) - 10.8mm acoustic laminate glass + 12.8mm acoustic laminate glass - Lab Tested – see Performance Certificate 100051
* 50dB (Rw) - 10.8mm acoustic laminate glass + 16.8mm acoustic laminate glass - Lab Tested – see Performance Certificate 100062
* 51dB (Rw) - 12.8mm acoustic laminate glass + 12.8mm acoustic laminate glass - Lab Tested – see Performance Certificate 100050
* 52dB (Rw) - 12.8mm acoustic laminate glass + 16.8mm acoustic laminate glass - Assessed against lab test data – see Performance Certificate 100052
* 53dB (Rw) - 16.8mm acoustic laminate glass + 16.8mm acoustic laminate glass - Assessed against lab test data – see Performance Certificate 100063
* **Partition Height:**
* (Insert floor to ceiling height. NOTE: Maximum standard height 3000mm)
* **Partition Abutments:**
* Head detail: (Insert from following options)

100002-01 - 25mm deep (no deflection) for up to 12.8mm glass on both faces

100002-02 - 25mm deep (no deflection) for up to 16.8mm glass on outer face

100002-05 - 25mm deep (no deflection) for up to 16.8mm glass on both faces

100003-01 - 50mm deep (no deflection) for up to 12.8mm glass on both faces

100003-02 - 50mm deep (no deflection) for up to 16.8mm glass on outer face

100003-05 - 50mm deep (no deflection) for up to 16.8mm glass on both faces

100004-01 - 90mm deep (±25mm deflection – internal) for up to 12.8mm glass on both faces

100004-02 - 90mm deep (±25mm deflection – internal) for up to 16.8mm glass on outer face

100004-05 - 90mm deep (±25mm deflection – internal) for up to 16.8mm glass on both faces

100005-01 - 94mm deep (±25mm deflection – external) for up to 12.8mm glass on both faces

100005-02 - 94mm deep (±25mm deflection – external) for up to 16.8mm glass on outer face

100005-05 - 94mm deep (±25mm deflection – external) for up to 16.8mm glass on both faces

100006-01 - 135mm deep (±40mm deflection – internal) for up to 12.8mm glass on both faces

100006-02 - 135mm deep (±40mm deflection – internal) for up to 16.8mm glass on outer face

100006-05 - 135mm deep (±40mm deflection – internal) for up to 16.8mm glass on both faces

100007-01 - 140mm deep (±40mm deflection – external) for up to 12.8mm glass on both faces

100007-02 - 140mm deep (±40mm deflection – external) for up to 16.8mm glass on outer face

100007-05 - 140mm deep (±40mm deflection – external) for up to 16.8mm glass on both faces

* Floor detail: (Insert from following options)

100008-01 - 25mm deep for up to 12.8mm glass on both faces

100008-02 - 25mm deep for up to 16.8mm glass on outer face

100008-05 - 25mm deep for up to 16.8mm glass on both faces

100009-01 - 50mm deep for up to 12.8mm glass on both faces

100009-02 - 50mm deep for up to 16.8mm glass on outer face

100009-05 - 50mm deep for up to 16.8mm glass on both faces

* Wall detail: (Insert from following options)

100011-01 - 25mm deep with clip-on bead for up to 12.8mm glass on both faces

100011-02 - 25mm deep with clip-on bead for up to 16.8mm glass on outer face

100011-05 - 25mm deep with clip-on bead for up to 16.8mm glass on both faces

100012-01 - 25mm deep for up to 12.8mm glass on both faces

100012-02 - 25mm deep for up to 16.8mm glass on outer face

100012-05 - 25mm deep for up to 16.8mm glass on both faces

100013-01 - 50mm deep with clip-on bead for up to 12.8mm glass on both faces

100013-02 - 50mm deep with clip-on bead for up to 16.8mm glass on outer face

100013-05 - 50mm deep with clip-on bead for up to 16.8mm glass on both faces

100014-01 - 50mm deep for up to 12.8mm glass on both faces

100014-02 - 50mm deep for up to 16.8mm glass on outer face

100014-05 - 50mm deep for up to 16.8mm glass on both faces

100016-01 - Door Frame Spacer for D660 Frame

100016-02 - Door Frame Spacer for D665 Frame

* Transom detail: (Insert from following options)

100010-01 - 50mm deep for up to 12.8mm glass on both faces

100010-02 - 50mm deep for up to 16.8mm glass on outer face

100010-05 - 50mm deep for up to 16.8mm glass on both faces

* Mullion detail: (Insert from following options)

100015-01 - 50mm wide for up to 12.8mm glass on both faces

100015-02 - 50mm wide for up to 16.8mm glass on outer face

100015-05 - 50mm wide for up to 16.8mm glass on both faces

* **Framing:**
* Aluminium extruded track sections
* **Glazing Junctions/Corners:**
* Glass-to-glass joints: (Insert from following options)

100029-01 - Nebula dry butt-joint

100029-02 - SA Aluminium dry butt-joint

100029-03 - Ghost dry butt-joint

100029-04 - Taped dry butt-joint

100029-05 - 90° mitred taped dry corner joint

100029-06 - SA Aluminium dry corner joint

100029-07 - Ghost dry corner joint

100029-08 - 90° taped dry corner joint

100030-01 - Taped 3-way to plain glass

100030-02 - Taped 3-way to Nebula joint

100030-03 - Taped 3-way to SA Aluminium joint

100030-04 - SA Aluminium 3-way joint

100030-05 - Ghost 3-way 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 glazed with: (Insert from following options)

12mm toughened glass + 12mm toughened glass

12mm toughened glass + 12.8mm acoustic laminate glass

10.8mm acoustic laminate glass + 12.8mm acoustic laminate glass

10.8mm acoustic laminate glass + 16.8mm acoustic laminate glass

12.8mm acoustic laminate glass + 12.8mm acoustic laminate glass

12.8mm acoustic laminate glass + 16.8mm acoustic laminate glass

* **Manifestation:**
* To architects choice and in accordance with the requirements of Approved Document K: (Insert description)
* **Blinds:**
* (Insert special requirements) Refer to Optima for advice
* **Door sets:**
* Integral Microflush D665 aluminium door frame with 65mm face and leaf set: (Insert from following options)

*AXILE Clarity* frameless single glazed leaf on offset Quad pivots - Lab Tested to 32dB (Rw) with suitable threshold seal - See Performance Certificate 900185

*AXILE Clarity* frameless single glazed leaf on lift-off hinges - Lab Tested to 32dB (Rw) with drop seal – See Performance Certificate 900253

*AXILE Flush-Bond* frameless double glazed leaf on offset pivots - Lab Tested to 33dB (Rw) with suitable threshold seal – See Performance Certificate 900186

*EDGE Symmetry* single glazed leaf on offset pivots/hinges - Lab Tested to 35dB (Rw) – See Performance Certificate 900254

*EDGE Symmetry* double glazed leaf on offset pivots/hinges - Lab Tested to 41dB (Rw) – See Performance Certificate 900256

*EDGE Affinity* single glazed leaf on offset pivots/hinges - Lab Tested to 39dB (Rw) – See Performance Certificate 900257

*EDGE Affinity* double glazed leaf on offset pivots/hinges - Lab Tested to 42dB (Rw) – See Performance Certificate 900258

Timber 44mm leaf on offset pivots/hinges - Lab Tested up to 31dB (Rw) – See Performance Certificate 900187

Timber 54mm rebated leaf on offset pivots/hinges - Lab Tested up to 33dB (Rw) – See Performance Certificates 900188 & 900195

* Integral Microflush D660 aluminium door frame with 60mm face and leaf set: (Insert from following options)

*ELITE Symmetry* double glazed leaf on offset pivots - Lab Tested to 43dB (Rw) – See Performance Certificate 100065

*ELITE Affinity* double glazed leaf on offset pivots - Lab Tested to 45dB (Rw) – See Performance Certificate 100066

* Integral Sliding Glass Door: (Insert from following options)

*ELITE Aero* single glazed pocket sliding door – Lab Tested in 2 x 12.8mm acoustic laminate double glazed partition to 39dB (Rw) – See Performance Certificate 100064

* **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 100300
* BREEAM – Satisfies a rating of A against Green Guide Ratings 2008 – Ref. Sustainability Statement 100301
* 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**

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| --- | --- | --- | --- |
| **Amendment Date** | **Details** | **How Communicated** | **Authorized by** |
| 15 October 2015 | First issue | E-mail to Optima Sales & Estimating Departments | P. Long |
| 18 December 2015 | Revised to reflect pre-launch Designer’s Guide alterations | E-mail to Optima Sales & Estimating Departments | P. Long |
| 1 Nov 2016 | Re-Format | E-mail to Optima Sales & Estimating Departments | P. Long |
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