

DATE: 21.01.14

Sustainability System: LEED

Applicable Methodology: USGBC – LEED 2009 (v3)

System: Optima 117 PLUS Single Glazed

Description: Frameless glazed partition system (single glazed) comprising multiple modules of laminated or toughened glass installed into extruded aluminium track sections with glass sealed into tracks with PVC gaskets and between panels with Optima Nebula™, Aluminium or PETG dry-joints.

Optima 117 PLUS can contribute towards LEED Credits as follows:

Materials & Resources

Credit 3: Material Re-use Optima 117 PLUS has the potential to enable the planned re-use of 50% of aluminium tracking and glass elements and can be considered re-locatable if configured with deflection heads.

Credit 4: Recycled Content Optima 117 PLUS components include recycled content as summarised below:

Material	Aluminium ¹	Glass ²	PVC ³	Totals (kg/m)
Mass (kg/m)	4.141	81.000	0.240	85.381
Mass % of Total	4.850	94.869	0.281	
Pre-Consumer (%)	0.000	20.000	0.000	18.974
Pre-Consumer (kg/m)	0.000	16.200	0.000	16.200
Post-Consumer (%)	79.000	0.000	0.000	3.832
Post-Consumer (kg/m)	3.271	0.000	0.000	3.271
Sum of post-consumer + half of pre-consumer recycled content = (%)				13.318

Data sources: 1 SAPA (UK); 2 Pilkington (UK); 3 Polyplas

Values taken for a 2.7 metre high partition over a 3 metre linear run in equal 1 metre modules with a single abutment to represent a typical large multi-cell fit-out. Height presumed at 3 metres for linear sections to account for off-cut wastage.

Aluminium mass/m includes 1/3 of a wall abutment.

PVC mass/m includes for Nebula glass-to-glass joints.

Credit 5: Regional Materials Aluminium extrusions produced in various UK locations and delivered via Radstock, Bath, UK. Production Radius from UK site = <500 miles

Glass produced in various UK locations and delivered via UK processor to site. Extraction/Production Radius from UK site = <500 miles

PVC extrusions produced in Stourport, Worcestershire, UK and delivered via Radstock, Bath, UK. Extraction/Production Radius from UK site = <500 miles

Indoor Environmental Quality

Credit 4.1: Low emitting materials: Adhesives & sealants Glazing silicone (where used) – Very Low VOC: 46g/l (Dow Corning 791T)

Credit 4.2: Low emitting materials: Paints & coatings Powder coat finish to aluminium extruded sections – Zero VOC: 0g/l (INVER)

Credit 8.2: Daylight & Views Use of fully glazed office fronts using Optima 117 PLUS can provide line of sight to external daylight for areas beyond perimeter cellular offices.

Issued By: 
Position: Technical Product Manager

To validate this compliance statement the system installation must be carried out in strict accordance with the details summarised in the Optima Designer's Guide and Installer's Guide.