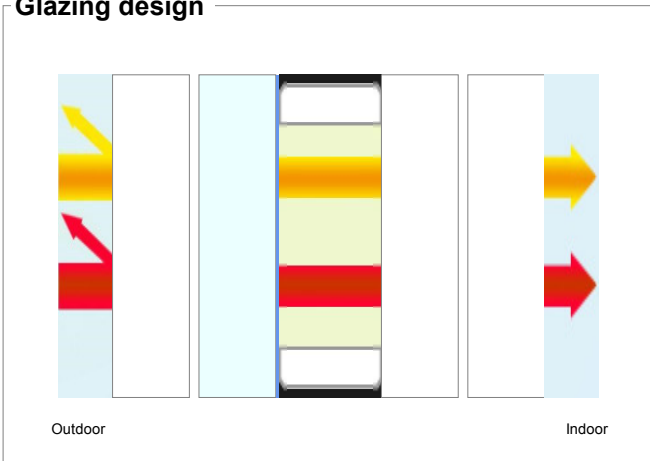


<b>SAMPLE / MOCK-UP/ BENCHMARK APPROVAL FORM</b>		
Subcontractor / Supplier: <b>seele (UK) Ltd</b> Works Package: <b>Facade Package (CPH, CPW &amp; CPL)</b>		Project: <b>1019 - Centre Point</b>
Sample Ref No: <b>D801-SA-019</b>	Rev: <b>A</b>	Date: <b>17 December 2015</b>
<b>GL101 – Ground Floor Glazing</b>		
Floor/ Location:	Ground Floor	
Specification Reference:	H13A/115, 115A & 115B	
Other:	-	
<p><b>Submittal Notes:</b></p> <p>Please find attached our sample submission D801-SA-019 regarding the glass sample GL-101 for the façade type H13A/115, 115A and 115B.</p> <p><u>Glass build up:</u></p> <ul style="list-style-type: none"> <li>▪ 12mm low iron glass HS</li> <li>▪ 1,52mm clear SGP interlayer</li> <li>▪ 12mm float planiclear HS</li> <li>▪ Coollite SKN-165 II on face # 4</li> <li>▪ 16mm stainless steel spacer (black)</li> <li>▪ 12mm low iron glass HS</li> <li>▪ 1,52mm clear SGP interlayer</li> <li>▪ 12mm low iron glass HS</li> </ul> <p>With border frit on face # 2 and # 6</p> <p>We kindly ask for your approval.</p> <p>The sample will be delivered to the BMCE site office FAO Ms. Gabrielle Worrall.</p>		

**Glazing design**



	First glazing	Second glazing
Gas		Argon 90% 16.00mm
Coating		
First glass	DIAMANT 12.00mm	DIAMANT 12.00mm
Coating		
Layer	SentryGlass 5000_9-2015 1.52 mm	SentryGlass 5000_9-2015 1.52 mm
Coating		
Second glass	PLANICLEAR 12.00mm	DIAMANT 12.00mm
Coating	COOL-LITE SKN 165 II	

**GL 101 Cool-Lite**

**Manufacturing sizes**

Nominal thickness : **67.0 mm**  
Weight : **123.2 kg/m<sup>2</sup>**

**Luminous factors (EN410-2011) : (D65 2°)**

Transmittance : **58 %**  
Outdoor reflectance : **16 %**  
Indoor reflectance : **18 %**

**Energy factors (EN410-2011) :**

Transmittance : **27 %**  
Outdoor reflectance : **21 %**  
Indoor reflectance : **28 %**  
Absorptance A1 : **51 %**  
Absorptance A2 : **2 %**

**Solar factors (EN410-2011) :**

g : **0.30**  
Shading coefficient : **0.35**

**Thermal transmission (EN673-2011) - 0° related to vertical position**

U<sub>g</sub> : **1.0 W/(m<sup>2</sup>.K)**



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CALUMEN® II is a simulation software to calculate key performance of glass such as light transmission, solar factor or thermal insulation coefficient. Computed values are indicative and subject to change. They can not be used to guarantee performance of the products.

These values are calculated according to EN410-2011 and EN673-2011 standards. Tolerances are defined according to EN 1096-4 or ISO9050-2003 standards. Nevertheless, user must check the feasibility of the associated products, in particular in terms of thickness and colour. Furthermore, it is his responsibility to check that the resulting combination of glazing meets regulatory requirements at national, local or regional level. Computed values with NFRC-2010 standards are indicative. Please use NFRC certified software for certified values.

Calculation rules and functional output of Calumen II have been validated by TÜV Rheinland Quality Report 11923R-11-33705

