

40606 – 3CR Main Works**Technical Submittal for Translucent Cladding Panels
3CR-HSW-CL-XX-XX-TEC-O-0002**

Document Title:	Translucent Cladding Panels
Document Number:	3CR-HSW-CL-XX-XX-TEC-O-0002
Reason for Issue:	For Material Approval for Cladding MFB and Annex
Revision:	C01

Revision No.:	Date:	Description:
C01	31.10.2024	For Approval

** In relation to the supply of naturally sourced materials e.g. natural stone and timber / wood products there may be some naturally occurring variations e.g. colour and texture.*

Project Name:	3CR Main Works	Document Number:	3CR-HSW-CL-XX-XX-TEC-O-0002
Project Address:	Johnson Matthey, Orchard Road, Royston, Hertfordshire SG8 5HE		
Project Manager:	Daniel Venuit	Issue Date:	31.10.2024

Material or Supplier Proposal:			
For the attention of:	Fluor		
The following material or supplier is proposed for use in the completion of the Project. The following information is provided for your review and approval prior to the commencement, installation or use on the Project.			
Material or Supplier:	Hardysherwood	Product Name:	Polycarbonate Wall lights KS1000DLAWP
Material or Supplier Address:	Kingspan Insulated Panels Greenfield Business Park, No.2 Holywell Flintshire CH8 7GJ Kingspan Insulated Panels Greenfield Business Park, No.2 Holywell Flintshire CH8 7GJ T: +44 (0) 1352 716100 Email: info@kingspanpanels.com	Source: [e.g. Quarry, Plant, Specified Manufacturer]	Kingspan
Contract Reference, Specification or Clause:			
Material or Supplier Description & Supporting Selection Detail:	Translucent Cladding Panels		
General Comments:	Kinspan supplier has provided the below information regarding this product. When they released the official data sheet, we will update this document.		
Certification attached (Mandatory)			
Certification type	☐ Declaration of Performance/Conformity ☐ CE Marking ☒ Data sheet ☐ ISO 9001 / ISO 14001 ☐ Kitemark ☐ Other (please specify)		

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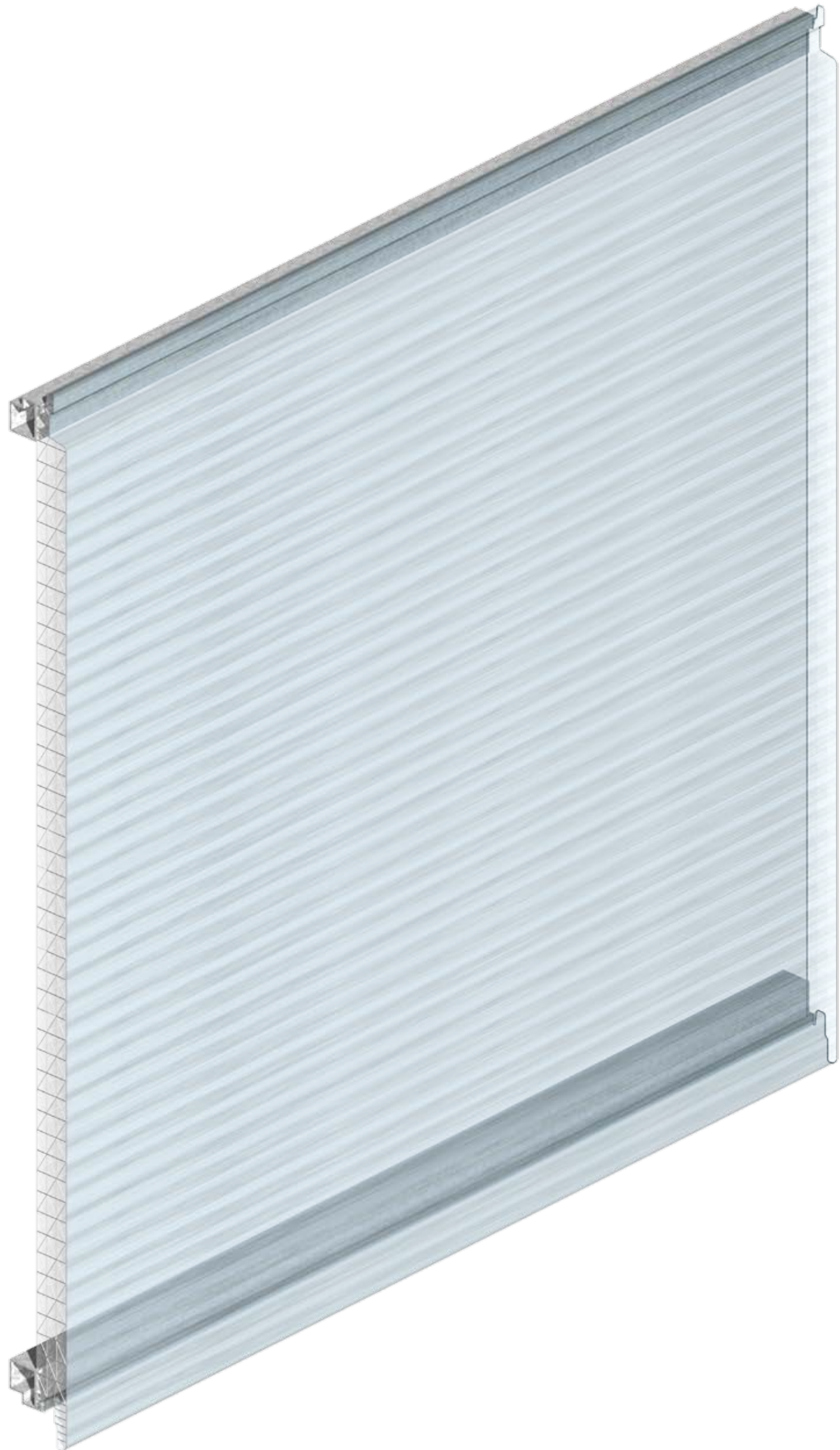
TECHNICAL SUBMITTAL FORM

blu-3

Issued for Approval by:	Name: Nad soobrayen	Position: Senior Engineer	Signed: N.Soobrayen	Date: 31.05.2024
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Materials or Supplier Approval or Rejection:				
For the attention of:	Fluor			
The above material or supplier as proposed for use in the completion of the Project has been reviewed in line with the sample, technical data, certification, specification, references etc. as supplied, and the material or supplier is:				
☐ Approved	☐ Approved [with comments]	☐ Approved [with conditions]	☐ Rejected	
Comments, Conditions or Reasons for Rejection:	See stamped from Fluor on the cover sheet			
Approval or Rejection Issued by:	Name:	Representing:	Signed:	Date:

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From: [Nadanum Soobrayen](#)
To: [Robert Larbi](#)
Date: 31 October 2024 11:11:00
Attachments: [image001.png](#)
[image002.png](#)
[image010.png](#)
[image011.png](#)
[image012.png](#)
[image013.png](#)
[image014.png](#)
[image015.png](#)
[image016.png](#)
[image017.png](#)

From: Simon Amer <Drawing.Office@hardysherwood.com>

Date: Monday, 28 October 2024 at 08:15

To: Nicholas Müller <nicholas.muller@blu-3.co.uk>

Subject: FW: RW and DLAWP datasheets

Good morning Nicholas

Kingspan have sent the below information across for their polycarbonate wall lights [KS1000DLAWP] in lieu of the "under review" datasheet

For Hardy Sherwood (Special Projects) Limited

S Amer

Simon Amer

www.hardysherwood.com

Office no: 01268 417733



From: James Patrick <James.Patrick@kingspan.com>

Sent: 25 October 2024 16:01

To: Simon Amer <Drawing.Office@hardysherwood.com>

Cc: Darren Sutton <darren.sutton@kingspan.com>

Subject: RE: RW and DLAWP datasheets

Dear Simon.

Further to your earlier email with regard to the DLAWP wall lite we can provide the following information

The Polycarbonate material has a reaction to fire classification of B-s2,d0.

Applications

Kingspan Day-Lite Architectural is a secret-fix, translucent polycarbonate wall light system suitable for both vertical and horizontal applications. The system is fully compatible with all Architectural Wall Panel (AWP) and Optimo wall panels.

The system is suitable for all building applications, except where the occupants or processes add significant quantities of water to the air, or where there are internal environments with low temperatures.

Available Lengths

Kingspan Day-Lite Architectural is available in standard lengths of 1.2m to 8m. Longer lengths are available upon request.

Additional costs and transport restrictions may apply for non-standard lengths. All lengths may change for export (outside of the UK).

Air Permeability & Weather Performance

	Standard	Result Classification
Air Permeability	BS EN 12152	Class A4 (600Pa)
Watertightness	BS EN 12154	Class R7 (600Pa)
	BS EN 14963	Pass

Product Tolerance

Cover Width	-2mm	+2mm
Thickness	-1mm	+1mm
Weight	-0.3kg/m ²	+0.3kg/m ²
Length	-5mm	+5mm
End Squareness	-4mm	+4mm

Quality & Durability

Kingspan Day-Lite Architectural is manufactured from the highest quality materials, using state-of-the-art production equipment to rigorous quality control standards; ensuring long term reliability and service life. Kingspan Day-lite Architectural is fully compliant with ISO 9001 (Quality), ISO 14001 (Environmental), ISO 50001 (Energy) and OHSAS 18001 (Health & Safety).

The polycarbonate material is treated with a barrier to prevent stress cracking when subjected to stress and temperature when in contact with plastisol.

Guarantee

The Kingspan Guarantee covers the structural and thermal performance for a period of up to 25 years.

Material

4.7kg/m² multi-wall polycarbonate sheet with a 38mm wall structure x 1000mm cover width with an external flat profile. The external face has a proprietary UV protection surface.

Spacers

Extruded mill-finished aluminium spacers are factory adhered to the Kingspan Day-Lite Architectural system at tongue-and-groove joints between the wall lights, and also at tongue-and-groove interfaces with insulated panels. White polyethylene foam fillers are used to close off behind the ends of wall lights against supports.

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Fillers & Seals

Factory-applied breather tape reduces the risk of condensation and prevents ingress of moisture and insects during transportation and delivery, keeping wall lights clean and optimising performance. If these tapes become damaged, or if panels are cut to length on site, they should be renewed prior to installation.

All side joints have a factory-applied seal fitted into the groove, to automatically seal the joints between panels.

All site-applied seals are to be polycarbonate compatible. All flashings to the Kingspan Day-Lite Architectural wall light, and all adjoining and / or local insulated panels sharing a wall light flashing, are to be 'double-sealed' with one run of butyl rubber sealant and one run of gun-applied polycarbonate-compatible sealant. Please contact the Kingspan Technical Services Department for more information.

Structural Tables

Unfactored load / span tables (use unfactored calculated design wind load values).

Single Span Condition

Panel Thickness (mm)	Load Type	Uniformly Distributed Loads (kN/m ²)									
		Span L in Metres									
		1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0
60	Pressure	1.39	1.05	0.70	0.49	0.36	0.27	0.21	0.16	0.13	0.11
	Suction	1.39	1.05	0.70	0.49	0.36	0.27	0.21	0.16	0.13	0.11
70	Pressure	2.39	2.04	1.72	1.21	0.88	0.66	0.51	0.40	0.32	0.26
	Suction	1.78	1.71	1.65	1.21	0.88	0.66	0.51	0.40	0.32	0.26
80	Pressure	3.28	2.64	2.15	1.72	1.26	0.94	0.73	0.57	0.46	0.37
	Suction	1.78	1.72	1.65	1.59	1.26	0.94	0.73	0.57	0.46	0.37
100	Pressure	4.25	3.26	2.58	2.09	1.72	1.42	1.09	0.86	0.69	0.56
	Suction	1.78	1.72	1.66	1.60	1.54	1.42	1.09	0.86	0.69	0.56

Double Span Condition

Panel Thickness (mm)	Load Type	Uniformly Distributed Loads (kN/m ²)									
		Span L in Metres									
		1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0
60	Pressure	0.99	0.94	0.84	0.74	0.65	0.57	0.50	0.39	0.32	0.26
	Suction	0.99	0.94	0.84	0.74	0.65	0.57	0.50	0.39	0.32	0.26
70	Pressure	1.73	1.62	1.44	1.26	1.10	0.96	0.85	0.75	0.67	0.60
	Suction	1.73	1.62	1.44	1.26	1.10	0.96	0.85	0.75	0.67	0.60
80	Pressure	2.72	2.29	1.92	1.62	1.38	1.18	1.03	0.90	0.79	0.70
	Suction	1.78	1.72	1.65	1.59	1.38	1.18	1.03	0.90	0.79	0.70
100	Pressure	3.91	3.05	2.44	1.99	1.65	1.39	1.19	1.03	0.90	0.79
	Suction	1.78	1.72	1.66	1.60	1.54	1.39	1.19	1.03	0.90	0.79

Notes:

1. Deflection limit for pressure loading is L/100, and for suction loading is L/100.
2. The actual wind suction load resisted by the panel is dependant on the number of fasteners used and the support thickness, as well as the fastener material.
3. The fastener calculation should be carried out in accordance with the appropriate standards. For further information please call the Kingspan Technical Services Department.
4. The allowable steelwork tolerance between bearing planes of adjacent supports is +/-5mm.

James Patrick
Technical Services Manager



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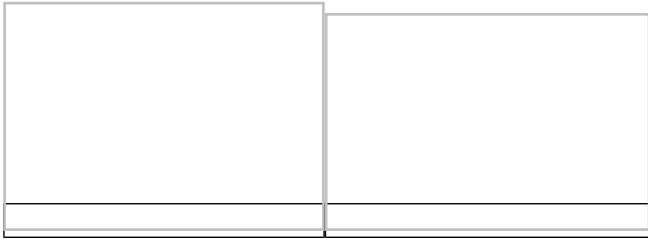
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