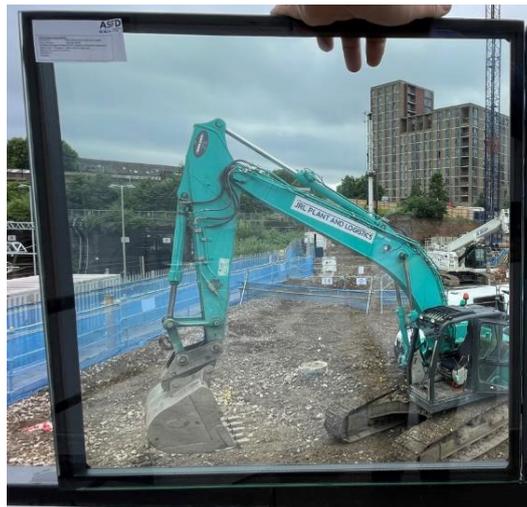


Details			
Project:	Kings Cross W Zone Development	GLOBAL MARF Number:	MARF 1040 – W1, W2 & W3 Double Glazed Unit rev_02
		Contract number:	21A00060
Sender:	McMullen Facades Ltd	Date sent:	10/11/2021
Contact for further information if required:		Name:	Wojciech Wolsza
		Phone:	+44 7827 929 204
		Email:	wojciech.wolsza@mcmullenfacades.com
Subcontractor:	McMullen Facades Ltd		
Specified product:	Double Glazed Unit		
Proposed product:	GL-W-40		
Product Specification/Technical Data:	N/A		
Manufacturer:	Guardian		
Supplier:	Guardian		
Batch number/other Identification:	N/A		
Planned date for inclusion to the works:	N/A		
Part of works element:	External Glazing		
Contract specification:	N/A		
Drawing Reference:	N/A		
Deviation from current Specification:	As approved by CMT		
Attachments			
Test Certs:	N/A		
Technical Literature:	KXC-MFL-TS-003		
Samples:	Available on site 08/07/2021		

GL-W-40 Punch-in Windows & Doors All Blocks All Levels Accessible from both sides Vents Windows & Doors Acoustic zones 29-38dB	max dimension w/h 1300x3000 39.04 mm		exterior 1 2 3 4 5 6 7 8 interior	center pane 55.4 18 mm TGI spacer ≥ 6 mm	lam. HS Mid Iron ge class 1B1	pos. 4: Guardian ClimateGuard Premium 2 T	4-side mech. 90°	- [ΔNim]: + [ΔNim]: wind load snow [ΔNim]:	imposed u [ΔNim]: 0.74 al [ΔNim]: 1.0 p [ΔNim]: 0.5	τ ₁ [E]: u [Wim/K]: R _{w2} [dB]:	γ [E]: γ [E]: γ [E]:	product properties *) Specified By Supplier
	Vision Glazing in Vent Vision Glazing in Door		55.4 lam. HS Mid Iron ge class 1B1	mat: WES black gas: Argon 90% ses: polysulfide black	Warm edge spacer bar PSI value = 0.05 WimK or better	SAMPLE REF: SAM-W-40	Approx. Total Area W1 = 520 m ² , W2 = 305 m ² 825 m ²	τ ₁ [E]: 0.780 u [Wim/K]: 1.1 R _{w2} [dB]: 40	γ [E]: 0.130 γ [E]: 0.531	specified glazing requirements		
	CE cert. See Legend											

Photos:



Midgard/ CMT Comments

2021-08-06 DMA: Visual appearance of sample is acceptable, status C given to MARF due to the following: - MARF needs to be tidied up, as there seem to be irrelevant/inconsistent information -For the residential façade one sample is missing (GL-SL-01). If confirmed it is actually required, will have to be considered side to side with the other 2 already inspected by Alina on site. -The thermal calculations will need to be issued by MDS to confirm that the selected centre pane u-values are sufficient to achieve the targets set. - Within SAP report, it referred to the McMullen façade report which CMT cannot fins on conjeet. So at the moment it's not clear to us what glazing u-values have been inputted into the SAP model.

2021-11-05 MID: Please see MCM response datasheet attached to revised MARF 1040_rev02 for CMT comments/approval.

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Client Monitoring Team (CMT) Observation Status

Approval Status:

- A Submission reviewed with no comments.
- B Submission reviewed and accepted subject to incorporation of comments.
- C Submission reviewed and rejected.
- N Submission reviewed and no longer relevant or required.

Comments: (enter 'no comment' if applicable)

[Click here to enter text.](#)

Signatures for Proceed

Client Name:		Company:	
Signature:		Date:	
Client Rep Name:		Company:	
Signature:		Date:	
Lead Reviewer:		Company:	
Signature:		Date:	
Main Contractor:		Company:	
Signature:		Date:	

ASFD-McMullen Façade Ltd Responses to CMT comments:

Item	Chapter – Page	CMT Comments 06/08/2021	ASFD – Response 01/11/2021
01	Page 01	Please confirm preliminary structural calculation have been carried out to confirm glass thicknesses. These can be issued at later stage.	-Please refer to calculation report KXC-TRI-ZZ-001-Y-MF31359-96-915
02	Page 01	Who is manufacturing the DGUs?	STARGROUP is the chosen glass supplier
03	Page 01	Does this apply at residential floors as well as ground floor? we would have expected 2 different specification. Requirement for retail glazing need to be discussed with Arg retail team. Low iron	-This Glass type only applies to Residential levels, not GF. - For clarity please refer to Glass schedule KXC-MFL-TS-003 where elevation highlights location of glasses.
04	Page 01	This is confusing. We assume no deviation from specification, unless clearly noted. Please indicate NA or specify.	Please refer to Glass schedule KXC-MFL-TS-003, where performance achieved is indicated for all glass types. -Glass schedule was already reviewed and awarded Status"B"
05	Page 01	Various comments related to technical points from page 01 to 03	-For clarity and avoidance of duplication of comments, all Technical information is only shown in the Glass Schedule KXC-MFL-TS-003, this sample is intended for Visual appearance of glass, technical values are assessed in the Glass schedule.
06	Page 04	Outer pane shall be stiffer than the inner pane to mitigate pillowing.	-Pillowing was clarified within report KXC-MFL-TS-010
07	Page 04	Different at ground floor. Has this been considered?	-This glass is intended to Residential areas, not GF
08	Page 04	Confirm spacer proposed and include technical datasheet.	-Spacer proposed is shown in Glass Schedule KXC-MFL-TS-003
09	Page 04	Confirm acoustic performance target for the project	-Please refer to Acoustic report KXC-TRI-ZZ-001-U-CAS060-96-900
10	Page 04	Include diagramatic section showing the proposed edge deletion and tolerances in line with the performance specification.	-Please refer to Glass schedule KXC-MFL-TS-003
11	Page 04	Include location of glass mark. The safety glass shall include the information in accordance with BS 6262-4. Include the proposed location of the mark considering that capped and uncapped DGU/TGU are applicable for the job.	-Please refer to Glass schedule KXC-MFL-TS-003
12	Page 04	Suggested possible diagram to show Stripping tolerance (blue/red line)	-Please refer to Glass schedule KXC-MFL-TS-003
13	Page 05	Visual appearance of sample is acceptable, status C given to MARF due to the following: - MARF needs to be tidied up, as there seem to be irrelevant/inconsistent information -For the residential façade one sample is missing (GL-SL-01). If confirmed it is actually required, will have to be considered side to side with the other 2 already inspected by Alina on site. -The thermal calculations will need to be issued by MDS to confirm that the selected center pane u-values are sufficient to achieve the targets set. - Within SAP report, it referred to the McMullen	- MARF was tidied up - This sample submittal is intended for GL-W-40, for GL-SL-01 sample is already on site for inspection, and a new MARF submittal is created separately capturing this GL-SL-01 type - U-Value calculations were issued under report numbers KXC-TRI-W1-001-Z-MF3159-96-900 & 901

	Item	Chapter - Page	CMT Comments 06/08/2021	ASFD – Response 01/11/2021
			façade report which CMT cannot fins on conject. So at the moment its not clear to us what glazing u-values have been inputted into the SAP model.	