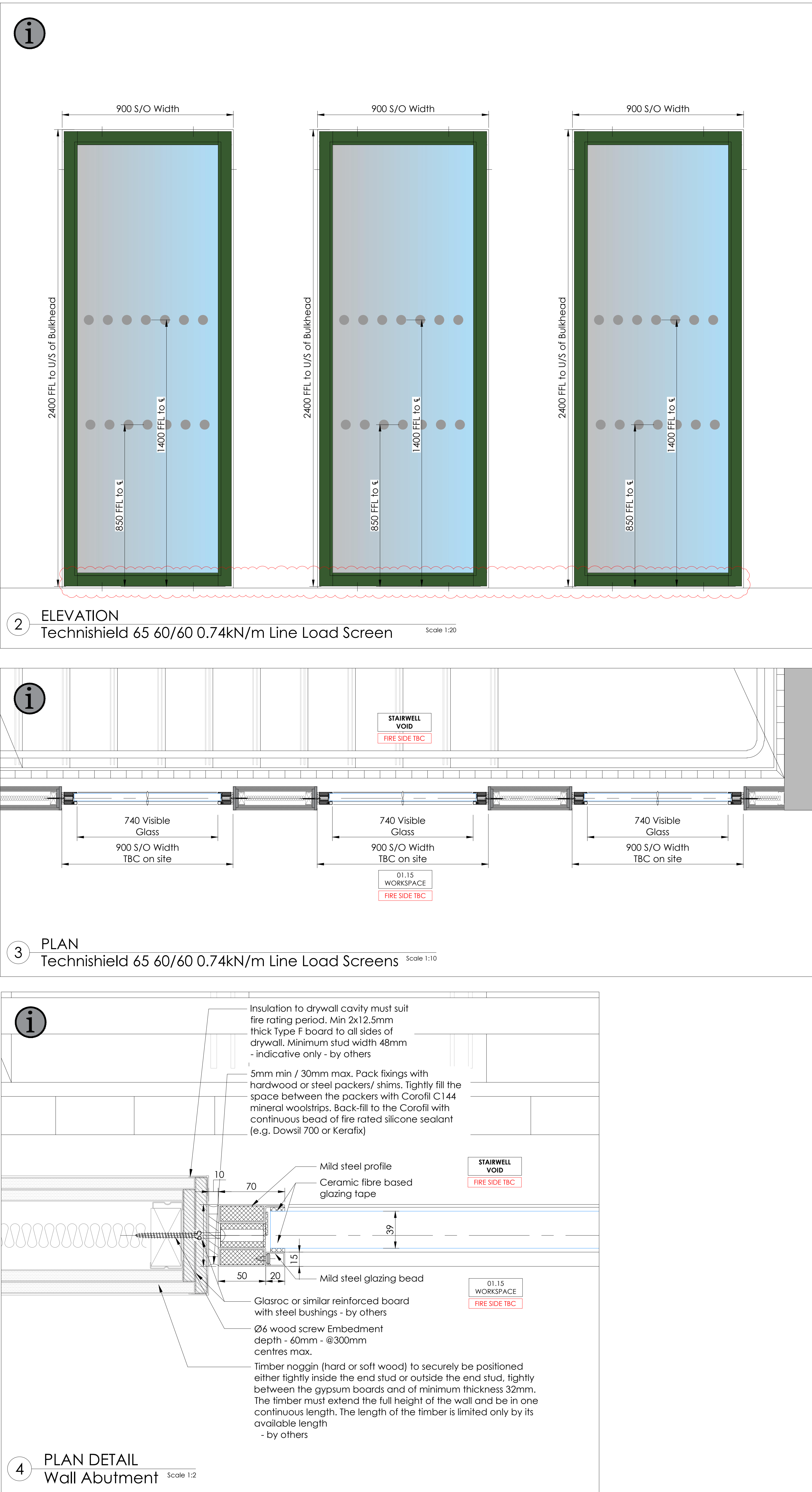
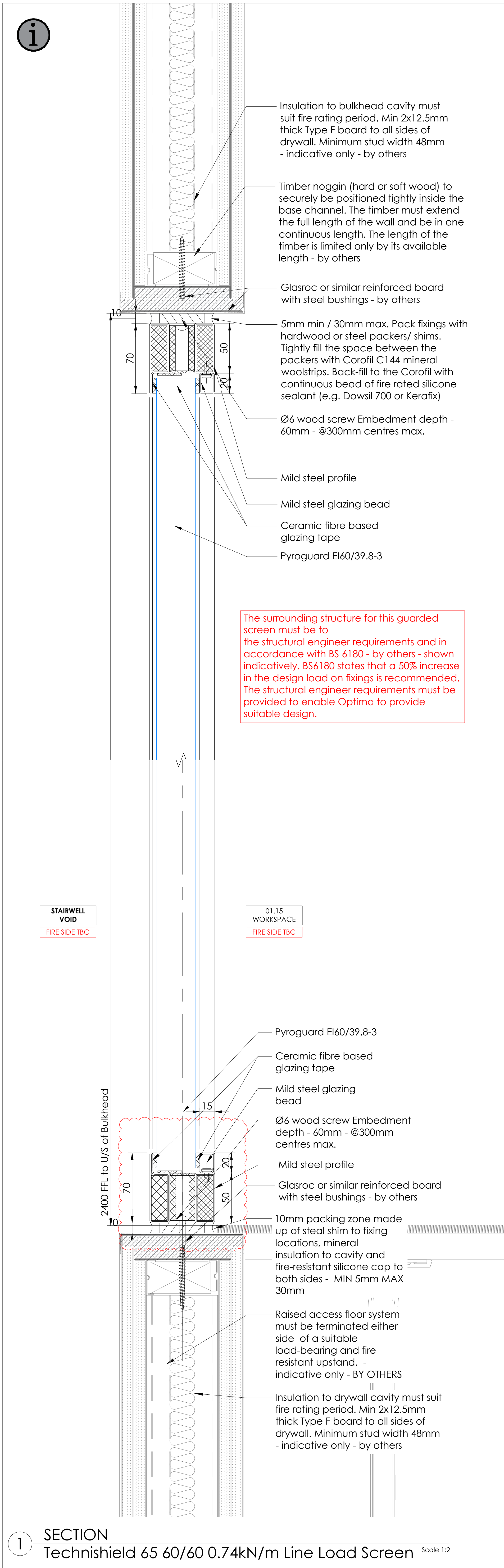
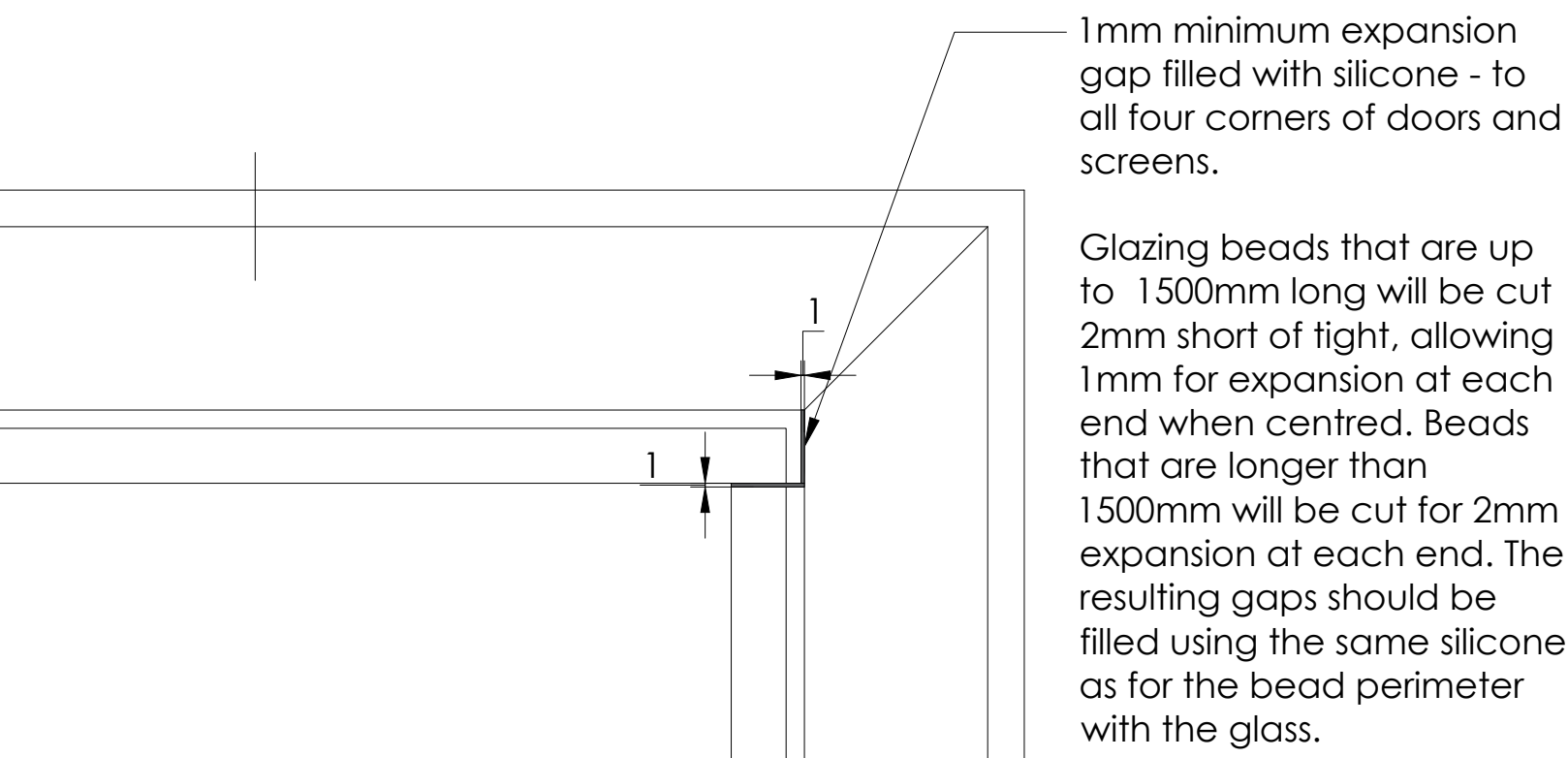




APPROX. GLASS WEIGHT:
169kg

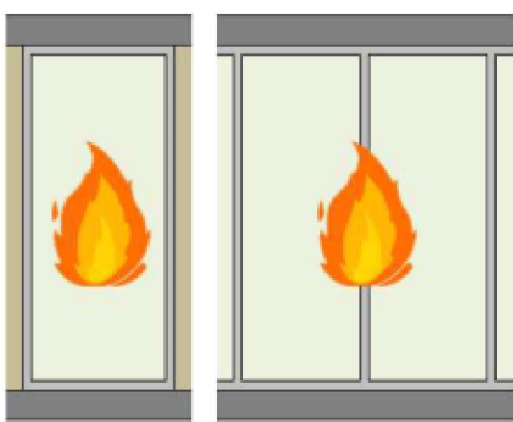
GLASS WEIGHT +
TRACKWORK
221kg

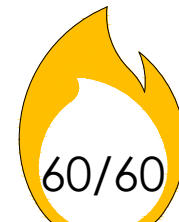


Calculated outcomes for full-height butt-jointed (4-edge supported) glazing
Includes screens of 1 pane

- Deflection acceptable against BS 6180 limitation of span/65 (25mm)
- Bending stress within the stated design limits
- Glass may be used but there is a thinner alternative that satisfied the above criteria
- Glass does not satisfy the criteria. Do not use.

Glass Type		Pyroguard T EK60/25.3		Pane Width		≤ 1500mm			
Glass Thickness in mm (design)		25 (15.2)		Glass thickness in mm for Redundancy condition (design)		12 (11.4)			
Specified Line Load, Concentrated Load, UDL to Infill		740 N/m; 500N; 1000N/m²		Full Wind Load (Presumed)		600 N/m²			
Half Load: Line Load, Concentrated Load, UDL to Infill		360 N/m; 250N; 500N/m²		Half Wind Load		300 N/m²			
Data Applied to Commercial Office Scenarios				Additional Data Applied to ALL Public Sector Applications					
Height (mm)	Full Wind Load Reaction		Result 1	Half Wind Load Reaction		Additive Values for Full Line Load + Half Wind Load		Redundancy stress (Max 1/2 N/mm²)	Result 2
	Deflection (mm)	Stress (N/mm²)		Deflection (mm)	Stress (N/mm²)	Total Deflection (mm)	Total Stress (N/mm²)		
2500	2.16	6.43	Safe	1.05	3.21	3.01	8.37	11.43	Safe
						2.76	7.09		



Safety Health & Environmental Information Box	
Construction Risks The project uses only materials that have been used in this manner before. From a Designers viewpoint. Optima do not envisage any specific Construction issues to communicate.	
Maintenance / Cleaning Risks Optima, in the main, provide office partitioning. The components (specifically the glass are tested to the relevant national or international standards of the day). As such CLEANING and MAINTENANCE of this product reveal no specific risks. However, Optima would point out that all persons involved with maintenance and cleaning should themselves be subject to their own employer's specific risk assessment process. Special care should be taken if working at height. In such cases the regulations of the day apply. Optima do not recommend any loadings against its products.	
Demolition / Adaptation Risks From the viewpoint of a Designer, Optima have identified no significant risks for demolition and adaptation. However, the usual risk assessments are presumed as implemented by the company proposing demolition and/or adaptation.	
Environmental / Recycling Much of the Optima range of project is relocate-able. See original terms and conditions for clarification. Environmental issues are subject to the law of the day. In addition to the hazards / risks normally associated with the types of work detailed on this drawing take note of the following: It is assumed that all work on this drawing will be carried out by a competent contractor working where appropriate to an approved method statement.	
CDM Communication Symbols  60/60 FR 0.74kN/m Line Load and Guarded Full Height Window to be installed to correct procedures	
Fire Specification	
Partition	Door
 60/60	
Fire Certificate Reference	
Partition	
CF5204	
Technical Guide Reference	
Partition	
Page 181 (23.03.20)	
General Information Table	
Type Reference	
Partition	
Technishield 65	
Floors	Level 01
Reference No.	
Partition No.	
IWS - 555	
Acoustic Rating	
Partition	
Rw47dB Glass Only (Estimated Rw46dB)	
Framework Finish	
Partition	
RAL 6020	
Trim finish	RAL 6020
Deflection	N/A
Structural Loads	
0.74kN/m line load and guarding	
Glass Specification	
Partition	
Pyroguard El60/39.8-3	
Manifestation	
Part K Manifestation BY OTHERS - Indicative Only	
Edge Cover	
15mm	
Structural Openings Statement	
All structural openings to be site measured prior system manufacture and installation to ensure correct system sizes.	

P03	02.07.24	Issue for approval	NK	AMC	ACR
P02	10.06.24	Status C - Amended as per comments	NK	AMC	RH
P01	24.05.24	First Issue	NK	AMC	ACR / RH / CM
Rev	Date	Description	Dr	App	Ck
GA Reference Colour:					
Status:					
For Approval					
Optima					
© Optima Products Ltd.					
OPTIMA CONTRACTING LIMITED COURTYARD HOUSE WEST END ROAD HIGH WYCOMBE BUCKINGHAMSHIRE HP11 2GB			Tel: +44 (0) 1494 492400 Web: www.optimasystems.com		
PART OF THE OPTIMA GROUP					
Project Number:					
50489					
Project Name:					
Sunlight House Refurbishment, Manchester					
Title:					
Technishield 65 60/60 FR Screens 0.74kN/m Line Load and Guarding					
Scale @ A0:	Drawing No.:		Revision:		P03
1:2/1:20	50489-OPN-ZZ-01-DR-X-0003				