

Polar Vision
Fire Resistance to BS 476: Part 22: 1987

Summary of Performance
Document No. PO / F4

**Polar Double Glazed Partitioning System
with Dry Jointed (No Mullion) Module**

This is to confirm that the double glazed construction of the above partitioning system as detailed in International Fire Consultants Ltd Field of Application Report **No. IFCA/05224** (available on request) in conjunction with evidence contained in test reports BTC 14102, BTC 14105, BTC15032, BTC15317 and WARRES 147219 and summarised in Komfort data sheet **PO2 GLA/INST.1** has been assessed to give 30 minutes fire resistance to British Standard 476: Part 22: 1987 based upon tests which achieved the following performance;

Double Glazed Glass Combination	System Performance	
	Integrity	Insulation
12.4mm Komfort insulation glass with 10mm or 12mm Toughened	30 minutes	30minutes

For performance validation of the installed product this Summary of Performance must be accompanied by the signed Contractors Statement



**POLAR DOUBLE GLAZED PARTITIONING , DRY JOINTED (NO MULLION)
MODULE ASSEMBLY INSTRUCTIONS FOR 12.4mm KOMFORT INSULATION
FIRE GLASS WITH 10mm OR 12mm TOUGHENED SAFETY GLASS**



Komfort's 'Polar' system dry jointed (*no mullion*) double glazed module, constructed using the approved multi layer intumescent fire safety glass on one side, meets the requirements of British Standard 476: Part 22: 1987 as described in International Fire Consultants Ltd Assessment Report No. IFCA/05224 based on test evidence contained in the Building Test Centre Report No. BTC 14102, BTC 14105, BTC 15305, BTC 15317 and Warrington Fire Research Report No. WARRES 147219.

30 minutes Integrity and 30 minutes Insulation using **12.4mm thick 'Komfort' intumescent fire safety glass** (*corridor non fire side*). **10 or 12mm thick Toughened (class 'A') safety glass** (*sacrificial fire side*). is achieved when the dry jointed double glazed module is constructed using all Komfort components as shown within this data sheet.

It is important to ensure that the building structure above and below the glazed screen is capable of accepting the imposed loading and equal in performance.

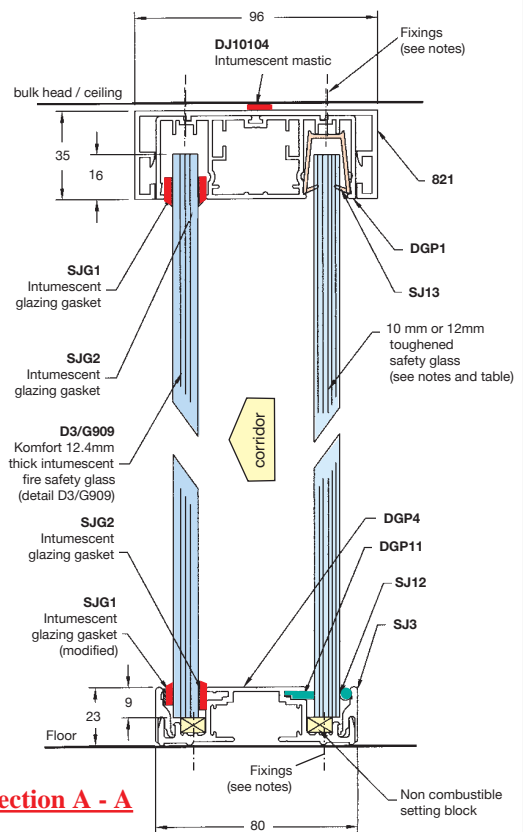
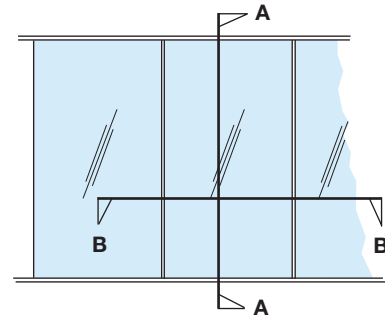
The choice of 10 or 12mm thick toughened glass is subject to location, height and crowd pressure (line load) requirements.

The inner and outer head / abutment sections (821 / DPG1) and base section (DGP4) must be installed using 38mm long No. 8 countersunk screws staggered at a maximum 400mm centres.

Installation of the dry joint between the glazed modules must ensure that the male component (SJ31) is installed on the outside side, on each side.

To prevent any ingress of moisture or water the fire glass protective edge tapes must not be removed. It is also important to bare in mind that 12.4mm thick Komfort intumescent glass weighs 27kg/m² and that the 12mm toughened safety glass weighs 30kg/m², resulting in a maximum double glazed module glass weight of 205kg therefore a check must be made of the floor loading limits before undertaking the installation.

It is important that the glass (see drawings D3/G909 and D3/G910) type, size and fitting detail for the fixings, glazing compound and intumescent seals remain as tested as products can often exhibit significantly different characteristics which could alter the performance obtained during the test and therefore they must not be considered interchangeable, irrespective of whether the individual product has been tested and dimensions are maintained.

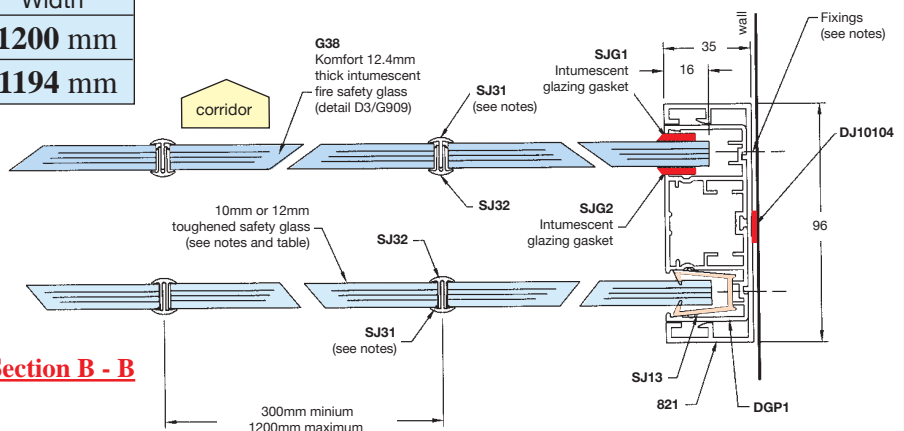


Section A - A

Maximum glazed module possible		
Unit	Height	Width
Module size	3000 mm	1200 mm
Glass size	2967 mm	1194 mm

To calculate the module glass size, establish the floor to ceiling height dimension and deduct 33mm for the height and for the module width (glass to glass) deduct 6mm.

Glass installed into the DGP1 for wall abutments must have a nominal 16mm edge cover.



Section B - B

Data Sheet No. PO2 GLA/INST.1 - 05/10



KOMFORT WORKSPACE plc

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