

# Polar 101

## Quick Sheet

A photograph of a modern office interior featuring glass partitioning. The glass is decorated with a pattern of horizontal, wavy lines. The office has a grey carpet, a wooden floor, and a desk with a chair. The lighting is bright and even.

Frameless  
Double Glazed  
Partitioning

Think partitioning.  
Think Komfort.

# Polar 101 Quick Sheet

**Polar 101** is an elegant 100mm wide double glazed system with a range of glass configurations available to provide increased acoustic and structural performance. The frameless bubble jointed glazing and minimal trackwork provides contemporary aesthetics in any working environment, allowing an abundance of light to fill the space to naturally brighten any room.

## Overview

Maximum Screen Height	3600mm*
Maximum Module Width	1200mm
Maximum Doorset Height	3000mm*
Trackwork Dimensions	100x32mm
Deflection Head	+/- 25mm
Acoustic Performance	Up to 54dB ( $R_w$ )*
Structural Performance	Up to 1.5kN/m*
Fire Performance	None

\* Depending on configuration & specification



Typical Screen



Deflection Head



Door Frame

## Optional Extras & Finishes

✓ Blinds	✓ Manifestations	✓ Graphics
✓ Cross Glaze Bars	✓ Switch Glass	✗ Curved Glass*
✓ Komfort Doors (Sonik, Glass, Timber)	✓ Integration with Komfire 100	✓ Integration with Polar Kreate
✓ Polyester Powder Coat Finish	✗ Satin Anodised Finish	✓ Special Anodised Finish

\* Depending on configuration & specification

## Acoustic Performance Summary

Glass & Joint Type	10mm Toughened	12mm Toughened	10.8mm Acou. Lam.	12.8mm Acou. Lam.	14.8mm Acou. Lam.
<b>15mm Toughened</b> with Bubble Joint	-	-	-	48dB ( $R_w$ )	-
<b>16.8mm Acoustic Laminated</b> with Bubble Joint	-	47dB ( $R_w$ )	51dB ( $R_w$ )	53dB ( $R_w$ )	52dB ( $R_w$ )
<b>17.5mm Toughened Laminated</b> with Bubble Joint	-	47dB ( $R_w$ )	50dB ( $R_w$ )	52dB ( $R_w$ )	51dB ( $R_w$ )

Please note using **Kross Glaze Bars** with this system can increase performance by up to 2dB. Max. performance 54dB ( $R_w$ ).

## Structural Performance Summary

Loaded Glass & Joint Type	Max. Height Duty Ratings to BS 5234-2:1992 (Annex A & Annex G)			Max. Height Line Loads to BS 6180:2011		
	Medium	Heavy	Severe	0.36kN/m	0.74kN/m	1.5kN/m
<b>15mm Toughened</b> with Bubble Joint	3500mm	3400mm	3600mm	3600mm	3200mm	2400mm
<b>16.8mm Acoustic Lam.</b> with Bubble Joint	3200mm	3200mm	3200mm	3200mm	3200mm	-
<b>17.5mm Tough. Lam.</b> with Bubble Joint	3600mm	3250mm	2750mm	3600mm	3400mm	2250mm
<b>12mm Toughened</b> with Ghost Post	3600mm	3600mm	3600mm	3600mm	3600mm	3600mm

For further information please refer to the **Polar 101** Design Guide or contact our Specification Team.



This product is available on **NBS Source**.



BIM Objects are available for this product.



THE INTERNATIONAL EPD® SYSTEM

*Not currently available for this product.*

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