
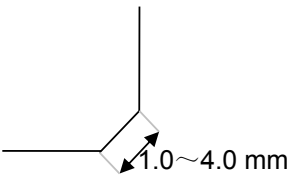
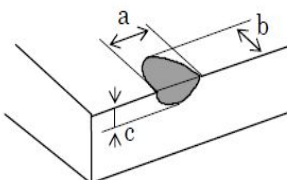


## LOW IRON PATTERN GLASS SPECIFICATION (TEMPERED) WITH AR COATING

Item		Specification	Testing Method / Standard				
Dimensions and Tolerances	Size	Length and Width Variation	-1~+1mm				
		Diagonal Variation	<0.2% of the length of long edge				
	Thickness	3.2 mm thickness	3.0 ~ 3.4 mm				
		4.0 mm thickness	3.7 ~ 4.3 mm				
	Flatness	Overall Bow	≤ 0.3%	BS EN 12150-1:2000			
		Local Bow	≤ 0.5mm/300mm	BS EN 12150-1:2000			
Physical Characteristics	Mechanical Strength Test		≥ 2400Pa EN 61215:2005				
	Impact Test	The first qualified	Qualified				
		The first not qualified	2 samples more, should be both qualified.				
	Fragmentation		no less than 40pc in 50*50mm area of testing sample. Testing on final product size.	BS EN 12150-1:2000			
Appearance	Spherical Bubble (per plate)	Diameter	≤1mm	1mm - 2mm	> 2mm		
		Allowable Quantity	10 <sup>1)</sup>	5	0		
	1) But below 0.5mm consider as seeds and no limit for the numbers.						
	Longitudinal Bubble (per plate)	Length \ Width	<1mm	1mm-2mm	2mm-5mm	5-10mm	>10mm
		<1.5mm	all allowed	*not clustered	4 pcs	1 pc	not allowed
≥1.5mm		not allowed	not allowed	not allowed	not allowed	not allowed	
* Cluster means the number of bubble >20 in any 100mm diameter area							
Scratch (per plate)	Length \ Width	<5mm	5mm-10mm	10mm-25mm	>25mm		
	<1mm	4 pieces	2 pieces	1 piece	not allowed		
	≥1mm	not allowed	not allowed	not allowed	not allowed		
Inclusion	For inclusions smaller than 1.5 mm×0.5 mm, 4 pieces can be accepted at most. The space between two inclusions should less than 300mm						
Edge	All edges are grinded to "C" shape 						

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Appearance	Corner	4 corners are chamfered to 1.0~4.0mm。										
	Edge Chip	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">Extend along the length</td> <td style="padding: 2px;"><math>a \leq 10\text{mm}</math></td> </tr> <tr> <td style="padding: 2px;">Extend to the surface</td> <td style="padding: 2px;"><math>b \leq 2\text{mm}</math></td> </tr> <tr> <td style="padding: 2px;">Extend to the thickness</td> <td style="padding: 2px;"><math>c \leq 1\text{mm}</math></td> </tr> <tr> <td style="padding: 2px;">Allowable Quantity</td> <td style="padding: 2px;">4 pieces/plate</td> </tr> </table>	Extend along the length	$a \leq 10\text{mm}$	Extend to the surface	$b \leq 2\text{mm}$	Extend to the thickness	$c \leq 1\text{mm}$	Allowable Quantity	4 pieces/plate		
	Extend along the length	$a \leq 10\text{mm}$										
Extend to the surface	$b \leq 2\text{mm}$											
Extend to the thickness	$c \leq 1\text{mm}$											
Allowable Quantity	4 pieces/plate											
Surface Roughness (Ra)	Ra: 0.4 to 1.0 micron	ISO 4278:1997										
Others	Iron Content	$\leq 0.015\%$	Tested by XRF (X Ray Fluorescence)									
	Transmittance (380~1100nm)	not less than 93%	TUV									
	Appearance Inspection	<p>The glass pane to be examined is illuminated in conditions approximating to diffuse daylight and is observed in front of a matt grey screen. Place the pane of glass to be examined vertically 3 m in front of the parallel to the screen. Arrange the point of observation 1.5 m from the glass, keeping the direction of observation normal to the glass surface.</p>		BS-EN 572-5:2004								