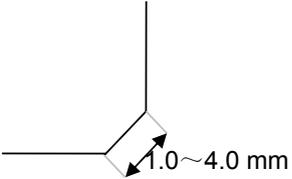
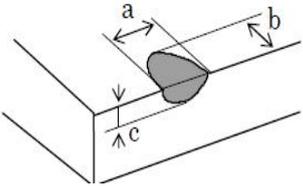


LOW IRON PATTERN GLASS SPECIFICATION (TEMPERED)

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%
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 ¹⁾ 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 		

LOW IRON PATTERN GLASS SPECIFICATION (TEMPERED)

Appearance	Corner	4 corners are chamfered to 1.0~4.0mm.			
	Edge Chip	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 (XRay Fluorescence)	
	Transmittance (380~1100nm)		not less than 91 %	TUV	
	Appearance Inspection		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.	BS-EN 572-5:2004	