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Products	Structure	Specifications								Width																
		Grade Name	Thickness (mm)	Weight (kg/m²)	Rib Distance (mm)	Standard Color	Special Color	Solar Control	U-value (W/m²·K)	980 (mm)	1050 (mm)	1200 (mm)	1220 (mm)	1600 (mm)	1830 (mm)	2090 (mm)	2100 (mm)									
2-wall Rectangle -Structure Sheet BRSH2RS)		BRSH2RS4T900	4	0.9	5.5mm					3.8																
		BRSH2RS5T1100	5	1.1						3.7																
		BRSH2RS6T1300	6	1.3						3.5																
		BRSH2RS8T1500	8	1.5	10.5mm					3.3																
		BRSH2RS10T1700	10	1.7						2.9																
3-wall Rectangle -structure Sheet BRSH3RS)		BRSH3RS8T1600	8	1.6	12mm									3.0												
		BRSH3RS10T1800	10	1.8										2.9												
		BRSH3RS12T2000	12	2.0										2.7												
		BRSH3RS12T2100	12	2.1	17mm									2.5												
		BRSH3RS16T2600	16	2.6										2.3												
5-wall Rectangle -structure Sheet BRSH5RS)		BRSH5RS8T1800	8	1.8	8mm									2.1												
		BRSH5RS10T2000	10	2.0										1.9												
		BRSH5RS12T2200	12	2.2										1.7												
4-wall Honeycomb -structure Sheet BRSH4HS)		BRSH4HS8T2000	8	2.0	5.5mm													2.1								
		BRSH4HS10T2100	10	2.1														1.9								
		BRSH4HS12T2300	12	2.3						1.7																
6-wall Diamond- structure Sheet BRSH6DS)		BRSH6DS12T2200	12	2.2	16mm													2.1								
		BRSH6DS16T2900	16	2.9														1.8								
		BRSH6DS18T3000	18	3.0														1.7								
3-wall X-structure Sheet BRSH3XS)		BRSH3XS12T2300	12	2.3	16mm																	2.3				
		BRSH3XS16T2700	16	2.7		2.2																				
		BRSH3XS18T2900	18	2.9		2.1																				
5-wall X-structure Sheet BRSH5XS)		BRSH5XS16T2700	16	2.7	20mm																	2.1				
		BRSH5XS20T3400	20	3.4										1.8												
		BRSH5XS25T3600	25	3.6										1.7												
8-wall Diamond- structure Sheet BRSH8DS)		BRSH8DS25T3800	25	3.8	20mm																	1.4				
		BRSH8DS32T4000	32	4.0						1.3																
		BRSH8DS35T4300	35	4.3						1.2																
		BRSH8DS38T4800	38	4.8						1.1																





BritShield solar-control sheet applies resin-modified technology (three different solar smart types). It can effectively block the infrared heat while let in the visible light, significantly reducing the building energy cost and creating more comfortable indoor environment.



Crystal effect

BritShield polycarbonate glittering sheet using special BAYER bright master batch modified, while maintaining high light transmittance, its inner walls particles changing the glare light which caused by refraction, make the sun light soft and not dazzling.



Anti-fog

BritShield new generation Lixin anti-fog sheet applies hydrophilic coating technology, its inner side can increase the surface tension of water on sheet surface and prevent the condensation of water. It has been wildly used in greenhouse and plant ecological garden to effectively protect the crops and flowers from the damage of condensation water.



Matt UV

BritShield matt-uv sheet using imported resin modify technology, it can effectively block the sheet damage caused by UV radiation. The matt-UV coextruded on the surface of Lixin sheet will not only protect the sheet from aging, but also prevent glaring effect. Matt-UV can be customized to different color as you like.

Transparency Standards & Features

Structure	(mm)	Standard Color						Double Color		Solar Control					
		Clear	Bronze	White Opal	White Diffuse	Green	Blue	Bronze/Opal	Solar Control/Opal					Infrared Absorption	
										Reflective Grey	Reflective Blue	Solar Ice	Pearl	Absorbed Green	Absorbed Blue
2-wall Rectangle-Structure Sheet (BRSH2RS)	4	82%	35%	30%	30%-48%	35%	30%			35%	35%	30%	30%		
	5	81%	35%	30%	30%-48%	35%	30%			35%	35%	30%	30%		
	6	80%	35%	25%	30%-48%	35%	30%			35%	35%	30%	30%		
	8	80%	35%	30%	30%-48%	35%	30%			35%	35%	30%	30%	60%	60%
	10	78%	35%	30%	30%-48%	35%	30%			35%	35%	30%	30%	60%	60%
3-wall Rectangle-structure Sheet (BRSH3RS)	8	76%	35%	48%	30%-48%	35%	30%			30%	30%	30%	30%	55%	55%
	10	74%	35%	48%	30%-48%	35%	30%			30%	30%	30%	30%	55%	55%
	12	72%	35%	48%	30%-48%	35%	30%			30%	30%	30%	30%	55%	55%
	12	72%	30%	45%	30%-48%	35%	30%			30%	30%	30%	30%	50%	50%
	16	70%	30%	45%	30%-48%	35%	30%			30%	30%	30%	30%	50%	50%
5-wall Rectangle-structure Sheet (BRSH5RS)	8	73%	30%							40%	40%	30%	30%	45%	45%
	10	71%	30%							40%	40%	30%	30%	45%	45%
	12	70%	30%							40%	40%	30%	30%	45%	45%
4-wall Honeycomb-structure Sheet (BRSH4HS)	8	62%													
	10	60%													
	12	58%													
6-wall Diamond-structure Sheet (BRSH6DS)	12	60%	30%					10%				20%	20%	40%	40%
	16	59%	30%					10%				20%	20%	40%	40%
	18	58%	30%					10%				20%	20%	40%	40%
3-wall X-structure Sheet (BRSH3XS)	12	55%	30%		20%-35%			10%	10%	25%	25%	20%	20%	40%	40%
	16	52%	30%		20%-35%			10%	10%	25%	25%	20%	20%	40%	40%
	18	50%	30%		20%-35%			10%	10%	25%	25%	20%	20%	40%	40%
5-wall X-structure Sheet (BRSH5XS)	16	61%	25%		20%-35%			10%	5%	25%	25%	20%	20%	40%	40%
	20	59%	25%		20%-35%			10%	5%	25%	25%	20%	20%	40%	40%
	25	58%	25%		20%-35%			10%	5%	25%	25%	20%	20%	40%	40%
8-wall Diamond-structure Sheet (BRSH8DS)	25	48%	20%	15%	20%-35%			10%	5%	20%	20%	20%	15%	30%	30%
	32	46%	20%	15%	20%-35%			10%	5%	20%	20%	20%	15%	30%	30%
	35	44%	20%	15%	20%-35%			10%	5%	20%	20%	20%	15%	30%	30%
	38	42%	20%	15%	20%-35%			10%	5%	20%	20%	20%	15%	30%	30%

Roofing of Shopping Mall, ECO Building, Stadium, Airport, Industrial Building, Railway Station, Subway Station Entrance, Erection Partition, Facade, Green House, Awning, Walkways, Carports



Polycarbonate Sheets



Property	Method	Method	Units	Value
Density		D-1505	g/cm ²	1.2
Heat deflection temperature	GB/T1634	D-648	°C	135
Fire Rating	GB/T8624	UL94		B1/V2
Service Temperature - Long term			°C	-50 to ± 100
Coefficient of linear thermal expansion	GB/T1036	D-696	mm/m°C	0.065
Tensile strength at yield	GBT/1040	D-638	Mpa	62
Elongation at break	GB/T1040	D-639	%	>80
Impact falling dart	GB/T14153A	ISO 6603/1	↑	1/10
UV Transmission	GB/T2680		%	0

ASTM except where noted otherwise.

The designing installing panels that are longer than 6000mm are supposed to extend the telescopic margin. When necessary, please use neutral structural adhesive to seal. Contacting any acidic, alkaline substances may cause advancing aging and damage; and prohibit to use the PVC adhesive strip and gasket because their decomposition may damage sheet.

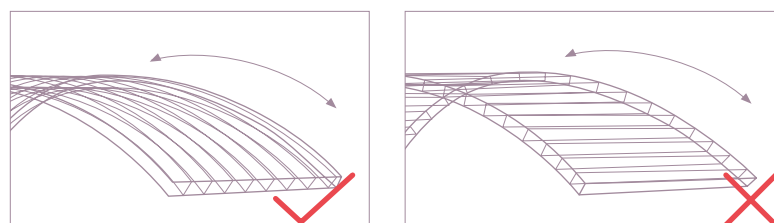
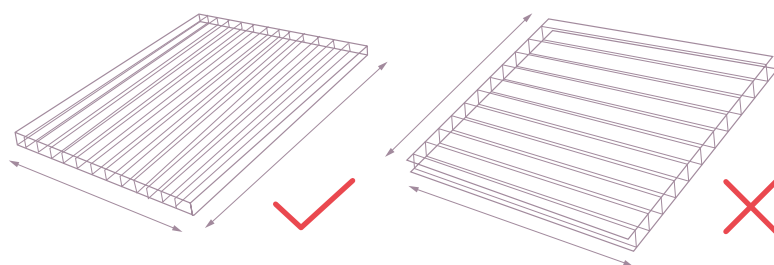
- The printing surface of protective film is co-extruded UV-resistant layer, please install it sunside. Due to electrostatic adsorption of dust and scratches surface, please do not peel off protective films before project completion. Films should be removed in a week after the project completion.

Gently wash the surface of sheet with a solution of mild soap and clean water, then dry the surface with a soft cloth.

When installation, the direction of panels' ribs should be ensured downward in order to reduce the accumulation of internal dust and derive the condensed water easily. And make sure the minimum installing slope is 5%; the direction of ribs should be consistent with the slope of metal frame.

Curved installation of sheets can be cold bent without thermal processing. The radius should be larger than their minimum permitted range-more than 175 times the sheet thickness. The sheet should be bent along the ribs running direction, the incorrect bending direction induces undue stresses and strains, causing premature failure and will void the warranty.

The coefficient of thermal expansion (3/1000mm) should be considered when designing the sheet's installing, if drilling is needed, the hole centre and the edge of the sheet spaced at least 30mm. The drilling diameter should be 1.5 times longer than the screw diameter.



sheet edge engagement ± 30mm

