










Pure Daylight.
Year after year.

ABOUT US

Coxwell is a pioneer in the arena of skylights, roof glazings, domes and various aesthetic structures and has revolutionised Indian architectural landscape. For over 25 years Coxwell has been at the forefront of innovation and leadership and is a trusted name across the continent.

Coxwell's unique, tailor-made daylighting solutions provide architects with an endless source of creative possibilities and the highest standards of quality. Our solutions meet the most stringent requirements in terms of design, comfort, engineering and aesthetics, together with energy efficiency, helping conserve the world's natural resources.

Coxwell Advantages

-  Fully Waterproof connection system
-  UV and Hail Resistant - Excellent resistance to hail
-  Higher LEED & Green Star Ratings
-  Quality diffused daylight
-  Aesthetics & Flexible design
-  Complete UV protection
-  Easier and faster installation
-  Recyclable
-  Lightweight



General properties of Multicell and Mutiwall with customisation options



Anti-glare: A special co-extruded finish that eases the strain on the eyes from the glare of the sun. Anti-glare finishing greatly diminishes glare effects. It is a 100% permanent matt finish applied by co-extrusion on Coxwell Multicell panels of any thickness and color.

The Anti-glare finishing performance is independently validated to ensure maximum visual comfort, regardless of the exposure and type of building.



Infrared: The control of the temperature and heat management are essential elements in maintaining the desired comfort level within buildings. They are also critical elements for cost control and to maximise energy savings. The products of the IR line absorb the part of the light relative to the infrared rays (from 780 to 1400nm), effectively blocking the solar heat while letting the solar light through.

The result is a reduction of the internal transmission of heat and the cost of cooling the area.



Anti-scratch: This finish helps in superior performance in the removal of graffiti removal and avoids scratches on the surface.



Anti-static: This treatment reduces the surface static electricity, diminishing the effect of the dust particles.



Reflective Panels: The exterior surface has a heat reflective layer that deflects much of the sun's heat before entering the building. With an interior side manufactured with a unique finish, it has distinct advantages at night with its ceiling reflective surface for artificial lighting.



D – UV Both side: The protective layer prevents damage from UV radiation by special co-extrusion resulting in better optical properties for an extended period and having Better Life.

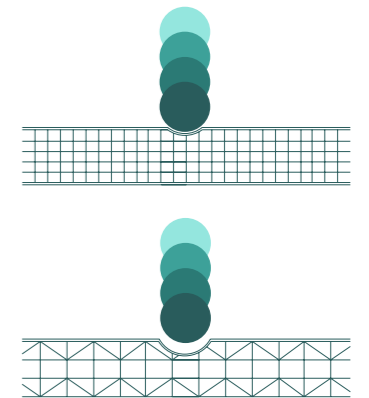
All Coxwell Multicell™ panels systems are co-extruded with UV protection on both sides of the panel. It prevents the damage caused by the UV rays, helps maintain the sheets' optical properties, and elongates the panel's life.



UV ++ Extra Strong UV: For better performance. Good for Harsh environmental condition



Optical Property: Available in Translucent & Opaque



Multicell has better impact and hail resistance than mutiwall or X-Structure

PANEL SYSTEMS

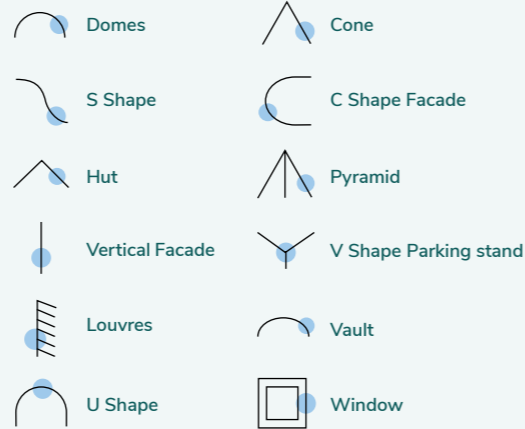
Our Coxwell Multicell/Multiwall polycarbonate panel system consists of various different structures. The products can provide an outstanding balance of light weight, high impact strength, and stiffness. Its light weight can make this product less expensive to transport and facilitates easy and fast installation. In addition, it provides excellent thermal insulation, UV- and flame resistance and long-term light transmission.

Coxwell Multiwall polycarbonate panel system is available in Clear, Opal, Bronze, Blue, Green, Grey and with a variety of specialty finishes, such as to allow sheets to be easily cleaned or prevent the formation of condensation.

Applications

- Commercial, Residential and Stadium roof glazing
- Carports
- Greenhouses
- Swimming Pool Covers
- Industrial roofing, roof-light
- Roofing
- Curved Roofing
- Ceiling

Shapes



Multiwall™ Panel System

(6, 8, 10 & 12mm)

Coxwell multiwall polycarbonate Panels products have a cellular structure with at least two walls and connective ribbing, creating insulating air spaces for better thermal transfer. This impact-resistant sheet is significantly lighter in weight. Multiwall Panels offers substantially better energy efficiency than any single-layer sheet, Glass, among others. The multiwall polycarbonate product range offers many options - from built-in condensate control for greenhouses & gardens, reducing solar heat gain while providing superior light transmission and clarity.

Advantages

- Better Fixing Methodology
- Economical Product
- Leak proof



Multicell™ Panel System

Coxwell Multicell structure transmits diffusion of natural light, the tight cell structure between the ribs supports give better strength, produces a good quality of light & offering No/less dust accumulation inside the cells. Coxwell Roofing Systems are dry glazed translucent systems available in various designs, suitable for installation above or below multiple types of structures (according to engineering and design requirements). The Coxwell roofing system contains a variety of snap-on interlocking dry-glazed connectors made of polycarbonate or aluminium – providing engineering and design flexibility.

Coxwell Roofing Systems are suitable for a wide range of weather conditions and offer high impact resistance. The large variety of aspects, colours, finishes and special effects provide a spectacular range of creative options for the ideal roofing system. The Coxwell roofing system is made with the latest Microcell technology – ensuring long-term service capabilities. The unique structure of the roofing system panel – with tight spacing between the ribs, results in a superior quality of light and visual appearance together with improved 'U' and 'R' values – providing greater energy efficiency.

Extruded with standing seams, the roofing system panel's double tooth grip-lock connection ensures longevity in resistance to hail damage, high winds and snow loads. The roofing system panels provide co-extruded UV protection, resulting in longer system life.

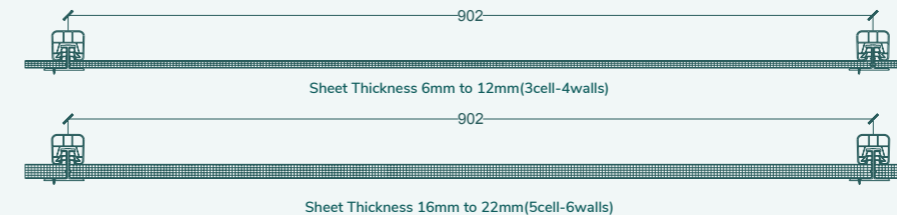
Advantages

- Resistance to UV rays and hail
- Bending Radius : 150 times of the thickness of panel
- Light transmission
- Heat Insulation
- Easy and low-cost installation
- High Impact - Due to Multicell

(6, 8, 10 & 12mm)

Coxwell Multicell™ 6mm, 8mm, 10mm and 12mm are four panel systems consisting of 3 cells and 4 walls polycarbonate panels with UV protection.

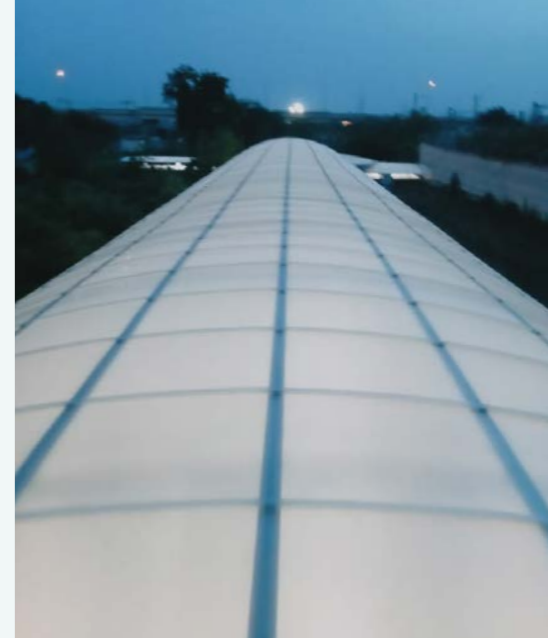
The panels are joined together using a protected polycarbonate or aluminium cover profile assembled using a click-on system to ensure a perfectly watertight seal.



(14, 16, 18, 20, 22, 25 & 30mm)

Coxwell Multicell™ in 14,16, 20, 22 mm thickness are six-panel systems consisting of 6 wall polycarbonate. We can supply 18,25 & 30mm on demand.

The panels are joined together using a protected polycarbonate or aluminium cover profile assembled using a click-on system to ensure a perfect watertight seal.



Thermal & optical properties

LT% - Light Transmission %
 ST% - Solar Radiation Transmission %
 SR% - Solar Reflection
 SHGC - Solar Heat Gain Coefficient

Above Figures are Indicative and may Change within
 Manufacturers Production Tolances

		MW 6mm to 10mm	MC 8mm	MC 10mm	MC 12mm	MC 14/16/22mm	MC 25/30mm
Clear	LT%	84	71	71	71	58	58
	ST%	79	61	61	61	55	55
	SR%	20	35	35	35	40	40
	SHGC	0.78	0.62	0.62	0.62	0.55	0.55
ICE Or Moon Light	LT%	ON Request	60	60	60	47	45
	ST%	ON Request	58	58	58	46	44
	SR%	ON Request	30	30	30	35	33
	SHGC	ON Request	0.6	0.6	0.6	0.51	0.49
Bronze	LT%	35	35	35	35	30	30
	ST %	39	37	37	37	31	31
	SR%	15	20	20	20	21	21
	SHGC	0.45	0.39	0.39	0.39	0.41	0.4
Green	LT%	65	52	52	52	45	44
	ST %	65	53	53	53	44	43
	SR%	17	24	24	24	29	28
	SHGC	0.65	0.58	0.58	0.58	0.51	0.5
Blue	LT%	60	51	51	51	48	46
	ST %	65	56	56	56	49	48
	SR%	22	26	26	26	32	31
	SHGC	0.65	0.6	0.6	0.6	0.55	0.52
Opal	LT%	40	36	36	36	22	20
	ST %	44	42	42	42	29	26
	SR%	35	40	40	40	42	46
	SHGC	0.49	0.46	0.46	0.46	0.33	0.32
Grey	LT%	45	29	29	29	32	30
	ST %	55	37	37	37	37	35
	SR%	20	19	19	19	29	27
	SHGC	0.61	0.45	0.45	0.45	0.43	0.42
Reflective Grey	LT%	ON Request	21	21	21	20	19
	ST %	ON Request	18	18	18	19	18
	SR%	ON Request	33	33	33	31	30
	SHGC	ON Request	0.29	0.29	0.29	0.28	0.28
Coxwell Special Colour							
Sliver Clear	LT%	ON Request	65	65	65	58	58
	ST %		58	58	58	55	55
	SR%		33	33	33	40	40
	SHGC		0.55	0.55	0.55	0.5	0.5
Sliver White	LT%	ON Request	35	35	35	21	20
	ST %		41	41	41	28	26
	SR%		39	39	39	41	42
	SHGC		0.4	0.4	0.4	0.29	0.29
Ocean Green	LT%	ON Request	51	51	51	48	46
	ST %		56	56	56	49	48
	SR%		26	26	26	32	31
	SHGC		0.6	0.6	0.6	0.55	0.52
Opaque White	LT%	ON Request	10	10	10	4	4
	ST %		8	8	8	7	7
	SR%		7	7	7	6	6
	SHGC		0.28	0.28	0.28	0.28	0.28

Loads & Support spacing guide with different system

	Purlin Spacing	MC 8mm	MC 10mm	MC 12mm	MC 14/16/22mm	MC 25/30mm
Load - Fixing System		Load Down/UP	Load Down/UP	Load Down/UP	Load Down/UP	Load Down/UP
PC with SS/ Aluminium Cleat	600	100	100	110	180	180
	800	80	85	90	150	150
	1100	ON Request	ON Request	ON Request	90	100
Alu. connector with SS/ Alu. Cleat	900	90	90	100	150	160
	1300	ON Request	60	80	110	120
	1600	ON Request	ON Request	ON Request	70	70
PC with Continues Cleat	900	90	90	100	160	180
	1300	ON Request	70	80	150	160
	1600	ON Request	ON Request	ON Request	90	90
PC with Aluminium Spacer	900	100	100	110	220	240
	1300	ON Request	ON Request	90	160	170
	1600	ON Request	ON Request	60	100	120

Note - Above loads are taken as per Coxwell Maintance Guidline

Parameters & Specifications

	MW 6mm to 10mm	MC 8mm	MC 10mm	MC 12mm	MC 16mm	MC 20/22mm	MC 25/30MM
Min Cold Bending Radius (mm)	1800	1950	2400	2600	2900	3400	4200
Width (mm)	900	900	900	900	900	900	900
Sound proofing dBA	14	21	21	21	21	21	22
Minimum slope	7°	5°	5°	5°	5°	5°	5°
U Value (w/m²c°)	4.2	2.4	2.1	1.8	1.5	1.4	1.4

Test

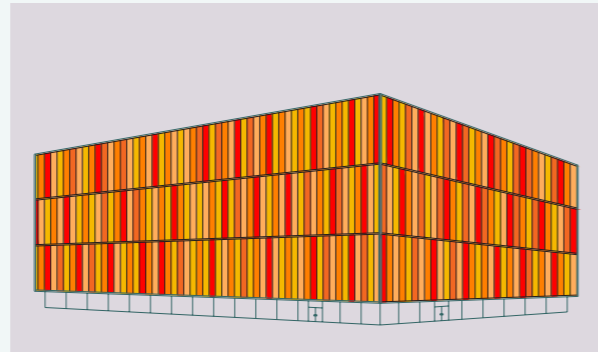
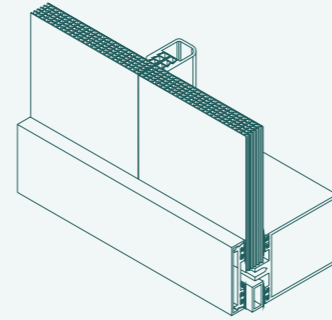
Test Description	Test Procedure	Results
Density	Weight Kg/m2	1.2 gm/cm3
Specific Gravity	ASTM D 792	Pass
Water Absorption	ASTM - 570	No
Yellowness Index	ASTM E 313	Test Certificate Available
Dart Impact Test	IS : 14443	Pass
UV exposed test	ASTM G 155 / ASTM G 154	No Breakage tested - IS : 14443
Pull Out Load	UL -90 / ASTM D -6706	Pass
Light Transmittance	ASTM D - 1003	Shall Not more then 6% after 10 years
UV Filtration test	AS No. 1067-1990	Transmission Less Than 0.1%
Water Penetration test	ASTM - E-331	No Penetration
Tensile Force	ASTM D 638	Test Certificate Available
Thermal Conductivity	ASTM E - 1530	Test Certificate Available
Impact Resistance	IS : 14443	Pass
Flammability	ASTM - E84-16 , ASTM D 1929-16	Pass



Coxwell Facade

Coxwell Single or Double Glazed Facades.

Coxwell cell structure Panels facade systems transmits diffusion of natural light to Ensure a comfortable inside the Building round the years Giving Options with colour shade and Have better thermal insulation.



Coxwell Louvre

Self-Supporting Building Solution that is Easy to Install. It can free span up to 12 metres in curved applications and 4.38 in skillion applications with no intermediate framing. The 25mm deep panels provide soft, naturally diffused light while still offering a degree of transparency. The system provides superior fire performance and excellent thermal insulation, as well as complete UV protection. They can be easily assembled as a dry-glazed system, significantly reducing onsite construction time.

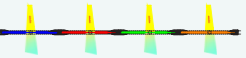
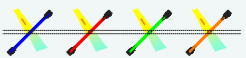
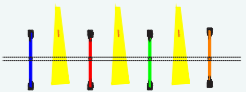
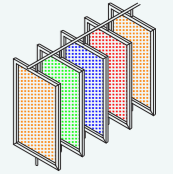
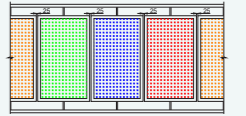
Arrangement of parallel, horizontal Polycarbonate blades for Diffused light penetration & For better U-Value . Coxwell unique approach for external Facade & Internal fixed louvre systems.

Advantages

- Options with colour shade
- Ensure a comfortable inside the Building round the years
- Increasing your building's energy efficiency.
- Unique style
- Horizontal or vertical install
- Light Weight

Thickness	Width	Length	Finishes
10mm	310mm	5 meter	IR, Antiglare, Reflective
12mm	310mm/460mm	5 meter	IR, Antiglare, Reflective
16mm/22mm	310mm/460mm/910mm	5 meter	IR, Antiglare, Reflective

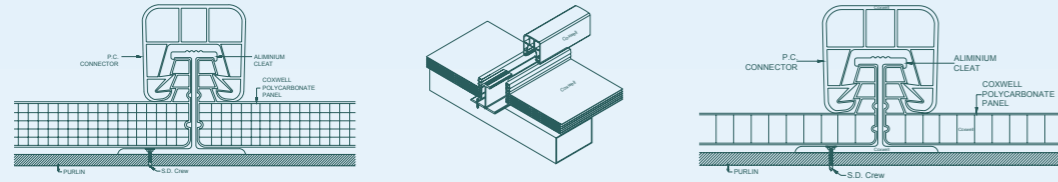
Weight - ± 5-8mm / Length - Can be customized



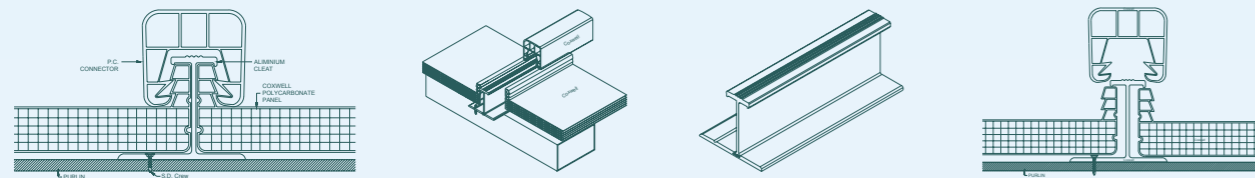
Installation

Multicell™ Panel System

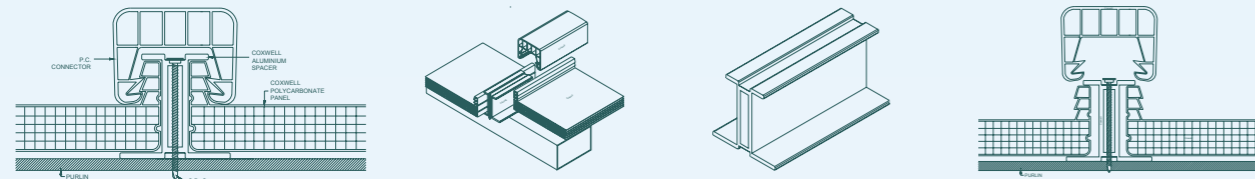
Panel fixing Detail with Aluminum Cleat



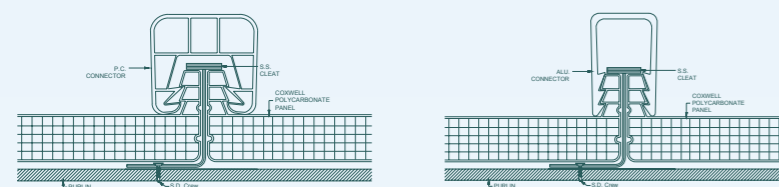
Panel fixing Detail with Aluminum Continuous Cleat



Panel fixing Detail with Alu. Spacer Sample



Panel fixing Detail with Aluminum Connector



Accessories - Detailed Description

Coxwell Item Description	Variety/Type	Conjunction/Requirement	Drawing
Polycarbonate Connector	0200	Length: 12m Colors: panel matched	
Aluminum Connector	0200	Length: 12m Finish: Alu. Match	
Polycarbonate Spacer Connector	0200	Length: 12m Colors: panel matched	
S.S. Cleat	(6mm) to (30mm)	Quantity: 200/box Sizes: 6mm to 30mm Finish: Stainless steel	
Aluminum Cleat	(6mm) to (30mm)	Quantity: 200/box Sizes: 6mm to 30mm Finish: Aluminum	
Aluminum Spacer	(6mm) to (30mm)	Quantity: 200/box Sizes: 6mm to 30mm Finish: Aluminum	
Polycarbonate Panel 5 Cells-6 Walls	(14mm) to (30mm)	Length: 12m Sizes: 14mm to 30mm Finish: Polycarbonate	
Polycarbonate Panel 3 Cells-4 Walls	(6mm) to (12mm)	Length: 12m Sizes: 6mm to 12mm Finish: Polycarbonate	
Polycarbonate Panel Multi-Wall	(6mm) to (10mm)	Length: 12m Sizes: 6mm to 10mm Finish: Polycarbonate	
S.D. Screw 4.8x19mm (3/4")	1400	Quantity: 500/box	
End-cap for Polycarbonate Connector	0300	Quantity: 200/box Colors: Clear	
End-Cap for Aluminum Connector	0500	Finish: Mill (Natural)	
Aluminum (Solid) Tape	(6mm) to (30mm)	Quantity: 50m / Roll	
Breather (Ventilated) Tape	(6mm) to (30mm)	Quantity: 33m / Roll	
Polycarbonate U-Profile	(6mm) to (30mm)	Length: 12m Finish: Clear	
Aluminum U-Profile	(6mm) to (30mm)	Length: 12m Finish: Aluminum	
Aluminum F-Profile	(6mm) to (30mm)	Length: 12m Finish: Aluminum	

General Terms & Conditions of sale.

Warranty: (See terms and conditions of warranty) The warranty period starts from the date of invoice and the warranty is valid in accordance with the terms set forth in the certificates issued by the company. Coxwell Domes Engineers Pvt. Ltd. reserves the right to make any changes it deems necessary and without prior notice and shall not be liable for any direct or indirect loss or damage to persons or property arising in connection with the use of product.

Disputes: Any disputes arising in connection with these terms and conditions of sale shall be brought exclusively before the Court of Rajasthan for settlement.



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