

Corrugated Polycarbonate Translucent Panels

Polycarbonate panels allow architects and building owners to take advantage of one of Mother Nature's best free resources; daylight. Polycarbonate panels are strong and durable, with up to 200 times the strength of traditional glass. DMI offers Polycarbonate Translucent Panels designed to complement popular corrugated roofing panel profiles. Our panels are co-extruded with UV protection and offer a 10 year warranty against loss of light transmission due to yellowing plus a 10 year warranty against breakage due to hail.

Applications include:

Metal building sidelights and skylights in new building construction.
 Replacement panels for deteriorated fiberglass panels in metal buildings.
 Canopies and patio coverings in pool areas and screen cage applications.
 Commercial Greenhouses, Home Greenhouses, Office Partitions, Vertical Glazing, Industrial Roofing, Pool Enclosures, Patio Covering, Window Replacement, Metal Buildings, Skylights, Domes, Shelters, Canopies, Sheds, Carpools, Sunrooms, Sidelites.

Thicker is better:

DMI no longer offers the 0.8mm Econo polycarbonate sheets and is stocking only material that can span 4' and 5' on center these would be the; Commercial 1.0mm, 1.5mm Mega, and 2.0mm XHD extra heavy duty commercial grade panels.

Standard **1.0mm** thick panels are up to 25% thicker than competing 0.8mm polycarbonate sheets. This extra thickness translates directly into extra strength allowing the R panel (MR12) profile to pass Florida Building Code and TDI testing.

Most customers choose to invest in one of our strongest profiled panels. The **Mega 1.5mm** panel. It is up to 93% thicker than the competitors 0.8mm thick panels and offers higher wind load and snow loading capabilities.

The ultimate in strength is the DMI XHD Polycarbonate panel now available in **XHD 2.0mm** thickness. Available in the silver reflective color that offers the added benefit of 200% less heat gain as compared to clear panels.

Tested and approved:

MR12 1.0mm Commercial grade and 1.5mm Mega panels have been tested and approved for use as roofing and side wall panels in Florida and have a TDI approval.

Panel	Purlin Spacing	FBC Approval #	Test/wind load pressures from FBC Testing
1.0mm MR12	5' Centers	FL11238.1 R1	-27.5 psf / +35 psf
1.5mm MR12	5' Centers	FL11238.2 R1	-45.0 psf / +50 psf

UV protected:

What is special about the product Direct Metals, Inc. offers?

They are Made in the U.S.A. and have co-extruded UV inhibitors that provide protection throughout the panel. This process is different than some competitor's products that use only a spray on top coating that can be diminished by weathering.

10/10 Warranty:

10 Year light transmission and 10 year hail limited commercial warranty is available to the original purchaser. The warranty warrants that the product shall not lose more than 10% of its light transmitting capacity for a period of 10 years. The hail breakage warranty warrants the product shall not break due to excessive loss of impact strength as a direct and exclusive result of impact of hail. Warranty must be registered at warranty@directmetalsinc.com

Flexibility:

DMI distributors have the flexibility to offer many choices in daylighting options including; profiled and flat (non-profiled) translucent polycarbonate and PVC panels. Custom panel profile matching technology is available to your customers where DMI can create a custom translucent panel using a qualifying CAD drawing (minimum orders apply).

Accessories:

Fasteners, sealants, closures and ridge caps are available to complement many applications. These specific fasteners & accessories have been tested for compatibility and are required to keep panel warranty intact. (see page 41)



In stock and ready to ship:

DMI has the flexibility to offer many choices in daylighting options including corrugated polycarbonate panels. We have the flexibility to offer custom panel length and profiles by special order. Below you will find our quick-ship panel options that are ready to ship from a DMI Service Center.

DMI offers 3 standard grades / thicknesses. Thicker is better and we offer a 25% or up to 250% upgrade to the 0.8mm competition.

Popular applications include:

Metal Building sidelights and skylights in new building construction.
 Replacement panels for deteriorated fiberglass panels in metal buildings.
 Canopies and patio coverings in pool areas and screen cage applications.
 Commercial Greenhouses, Home Greenhouses, Office Partitions, Vertical Glazing, Industrial Roofing, Pool Enclosures, Patio Covering, Window Replacement, Metal Buildings, Skylights, Domes, Shelters, Canopies, Sheds, Carports, Sunrooms, and Side-lights.
 Quick Ship American Made Polycarbonate Panels
 Made in the U.S.A. 10/10 warranty

ECONO / 2'OC	0.8mm
COMMERCIAL	1.0mm
MEGA HD	1.5mm
DMI XHD	2.0mm

1.0mm Commercial Grade

Profile	Color	Length	WHSE	Part#	Expected +/- 5% Light Transmission
MR9	Clear	12'	1	DMP341MSCL12	90%
MR9	Soft White	12'	2	DMP91MSSWT12	80%
MR9	White	12'	1	DMP341MSWT12	45% <u>FBC#</u>
MR12	Clear	12'	1	DMPR1MSCL12	90% FL11238.1 R1
MR12	White	12'	1	DMPR1MSWT12	45% FL11238.1 R1
MR12	Bronze	12'	1	DMPR1MSGR12	35% FL11238.1 R1
5V	White	12'	1	DMP51M5VWT12	45%
2.67 SP	Clear	12'	1	DMP10925312C	90%
2.67 SP	White	12'	1	DMP10924912W	45%
7270	S.White	12'	1	DMIPC727012W	80%



1.5mm MEGA HD Commercial Grade

Profile	Color	Length	WHSE	Part#	Expected +/- 5% Light Transmission
MR9	Clear	12'	2	DMPCMR9MC12	88%
MR9	White	12'	Special Order	DMPCMR9MW12	43% <u>FBC#</u>
MR12	Clear	12'	1	DMPCMR12MC12	88% FL11238.2 R1
MR12	White	12'	1	DMPCMR12MW12	43% FL11238.2 R1
MR12	Silver Refl	12'	1	DMPCMR12HDS12	22% FL11238.2 R1
BR2	Soft White	12'	1	DMPRBR215SW12	78%
PBU	Soft White	12'	1	DMPRU12SW1.5	78%
PBU	White	12'	1	DMPRU12W1.5	43%



2.0mm DMI XHD

Profile	Color	Length	WHSE	Part#	Light Transmission
MR12	Silver Refl	12'	1	DMPCMR12XHS12	20%
MR12	Soft White	12'	1	DMPCMR12XHSW12	75%
7.2 MR	Soft White	12'	2	DMP72MR12SW	75%

Light Blue Part#'s available while supplies last



TRANSLUCENT PANEL PROFILE SELECTION

DMI maintains one of the largest in stock profile selections of translucent polycarbonate panels in the country.

This page shows our 8 profiles of polycarbonate panels and our one polycarbonate ridge cap profile.

If you do not see your desired profile here please note that we have 405 profiles available to be made to order. Production minimums from 195 to 550 panels depending on profile, color and thickness.



Please find the list of additional profiles at our website: <https://directmetalsinc.com/wp-content/uploads/2019/02/1-DMI-Polycarbonate-Translucent-Panel-Stocking-and-Special-Order-Panel-Profile-Selections-2020.pdf>



Light Blue Part#'s available while supplies last

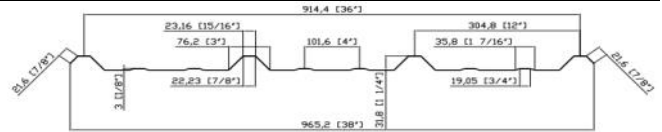
1.0mm or 2.0MM	Overall Width	Net Coverage	Length
PC Ridge Cap	24"	23" x 10'	10'6"



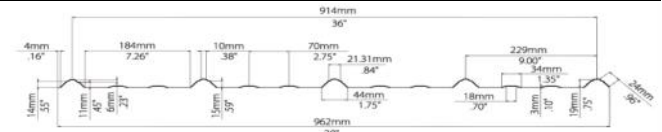
Important things to know about translucent panels.

1. All sales final - no returns
2. Special fasteners and accessories are required for approved installation and warranty.
3. You must register your warranty with DMI.
4. Shipping charges and packaging charges may be additional.
5. Custom panel profiles and custom lengths are available upon request, expect order minimums and required deposits.
6. All fastening points must be pre-drilled and only approved sealants can contact these panels.
7. When dropped in between two metal panels as a skylight application, white is the suggested color choice for quality of light.

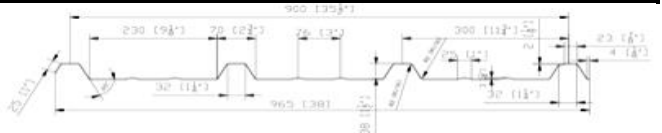
MR12 FBC	Overall Width	Net Coverage	Pitch / On Center	Depth / RHeight	Available colors: Clear, White, Bronze, Reflective Silver
FL11238.2	38"	36"	12"	1.25"	



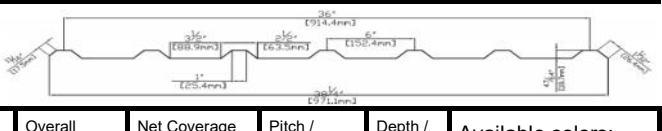
MR9	Overall Width	Net Coverage	Pitch / On Center	Depth / RHeight	Available colors: Clear, White, Bronze
3/4" RIB	38"	36"	9"	.75"	



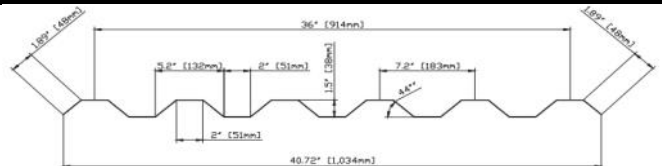
BR2	Overall Width	Net Coverage	Pitch / On Center	Depth / RHeight	Available colors: Soft White
Butler Rib 2	39.8"	36"	12"	1.5"	



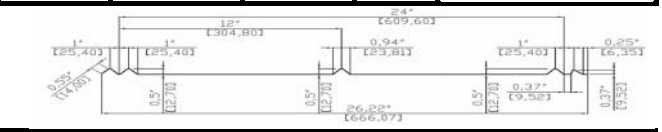
PBU	Overall	Net Coverage	Pitch /	Depth /	Available colors: White, Clear
U Panel	38.25"	36"	6"	0.75"	



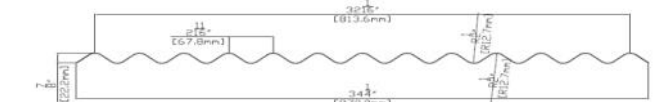
7.2 Corr	Overall Width	Net Coverage	Pitch / On Center	Depth / RHeight	Available colors: Soft White
2.0	40.72"	36"	7.2"	1.5"	



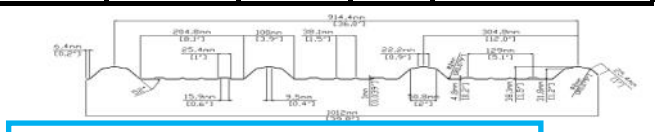
5V	Overall Width	Net Coverage	Pitch / On Center	Depth / RHeight	Available colors: White
	26"	24"	12"	0.5"	



2.67 SP	Overall Width	Net Coverage	Pitch / On Center	Depth / RHeight	Available colors: Clear, White
	34.25"	32"	2.67"	7/8"	



DMIPC 7270	Overall Width	Net Coverage	Pitch / On Center	Depth / RHeight	Available Colors: Soft White
	39.8"	36"	12"	1.5"	



Light Blue Part#'s available while supplies last

LIGHT TRANSMITTING PANEL ACCESSORIES AND FASTENERS

TRANSLUCENT POLYCARBONATE RIDGE CAP

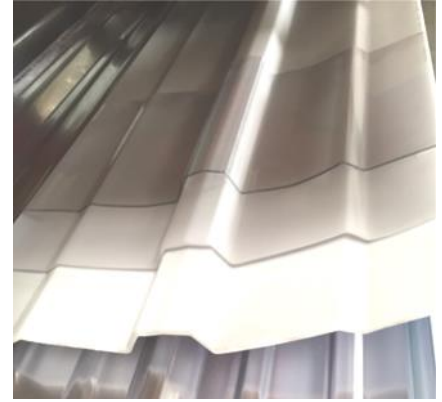
Polycarbonate ridge cap is installed on the ridge or peak of building roofs in place of a standard metal ridge cap trim. Polycarbonate panels allow architects and building owners to take advantage of one of Mother Nature's best free resources; daylight. DMI distributors offer polycarbonate translucent ridge caps in two thicknesses to complement popular corrugated metal or polycarbonate roofing panel profiles. All caps come 10'6" x 23.5" wide with a top hat profile.

DMI 1.0 mm Translucent Polycarbonate Ridge Cap

1.0mm PC ridge cap is in stock in clear and opal white. Bronze is available by special order

DMI 2.0mm MEGA Translucent Polycarbonate Ridge Cap

The stronger big brother to our 1.0mm offering the 2.0mm cap is twice as thick. The 2.0mm cap can span ridge openings without the extra use of a centerline brace. Available in clear and reflective silver. Clear ships from our Midwest Service Center.



Available while supplies last

LIGHT TRANSMITTING PANEL FASTENERS FOR POLYCARBONATE OR FIBERGLASS PANELS



LIGHT TRANSMITTING PANEL TO WOOD STAINLESS SCREW

Full 304 Stainless Steel protection with the added protection of DMG85 coating. Special 3/4" diameter cupped style washer for standard applications to wood substrates. Designed to meet DMI and Sunsky installation guidelines. Pre-drill of polycarbonate panel required.

Available Sizes	Qty/Box	Part#
14 x 3/4" TPA 3/4C	1,000	DMIREPL14034SSA
14 x 1-1/2" TPA 3/4C	1,000	DMIREPL14150SSA
14 x 2-1/2" TPA 3/4C	1,000	DMIREPL14250SSA
250 PIECES PER BAG		



LIGHT TRANSMITTING PANEL TO WOOD CARBON STEEL SCREW

Carbon Steel that is galvanized for corrosion resistance. Special 3/4" diameter cupped style washer with aluminum washer guard for applications to wood substrates.

Available Sizes	Qty/Box	Part#
14 x 1-1/2" MP 3/4C	1,000	DMI21492075
250 PIECES PER BAG		



LIGHT TRANSMITTING PANEL TO STEEL STAINLESS SCREW

Full 304 Stainless Steel protection with the added protection of DMG85 coating for resistance to dissimilar metal reactions in aluminum substrates. Special 3/4" diameter cupped style washer for standard applications to steel substrates. Pre-drill substrate and panel.

Available Sizes	Qty/Box	Part#
14 x 1-1/2" TPB 3/4C	1,000	DMIREPL14150SSB
14 x 2-1/2" TPB 3/4C	1,000	DMIREPL14250SSB
250 PIECES PER BAG or by the piece		



LIGHT TRANSMITTING PANEL TO STEEL FBC FASTENER

Oversized #14 fasteners with an oversized 304SS 1/8" EPDM x 1.125" diameter washer. This fastener is for installation of translucent panels to light to medium gauge metal substrate up to 8 ga steel to meet Florida Building Code Approval installation guidelines. Pre-drill of polycarbonate panel required.

Available Sizes	Qty/Box	Part#
1/4-14 x 1-1/2" SD3	1,000	DMIPOSD14150W114
250 PIECES PER BAG or by the piece		



TRANSLUCENT PANEL TO PC PANEL OR STEEL PANEL TO PC PANEL OVERLAP FASTENER - SS GROMMET SEAL

Stainless Steel 304 with EPDM grommet. Used for panel overlaps of polycarbonate and fiberglass panels. Hex head machine screw with rubber grommet that seals around top and bottom of panel penetrations. Pre-drill required for installation.

Sizes	Qty/Box	Part#
1/4" x 1"	2500	DMI210F100NWESN
By the case or by the piece		

3/8" X 7/8" Each	DMI23810PG
Available painted	



BUTYL*ROLL BUTYL TAPE SEALANT FOR PANEL SEALING

Available in various sizes supplied in ready-to-use rolls. For sealing gaps between polycarbonate panels and uneven metal panels around perimeter of skylights. Approved by DMI and Palram for use on MEGA, SUNSKY & SUNTUF panels.

Available Sizes	Qty/Box	Part#
3/32 x 3/8" x 45' SB	40	DMBT3323845
3/16 x 7/8" x 25' MTB	14	DMBT31678M



DRILL BITS SIZED FOR POLYCARBONATE INSTALLATION

These two drill bits are required for proper installation of the above fasteners. A 3/8" diameter drill bit to create the proper clearance hole for our commercial grade polycarbonate sheets. The 7/32" bit is used for predrill of #14 SS type B SS fasteners into steel purlins.

Available Sizes	Part#
7/32" Metal bit for TPB Screw	DMI9SWSN7/32
3/8" Poly Pre-drill bit	DMI9DB384
1/8" For 3/4" TPA Stitch Predrill	DMI9SWSN1/8



BONDED STAINLESS/EPDM WASHER

Large O.D. washers to help spread out load on translucent panels. Bonded Stainless / EPDM or Bubble Aluminum/EPDM style washers are all sized for #14 diameter fasteners.

Bonded Stainless S Disk, Black E.P.D.M. Rubber		
#14 x 7/8"	4,000	DMLSJE0870279
#14 x 1-1/8"	2,500	DMSJE112027X
#14 x 1-1/2"	1,000	DMLWSS14112
Bonded Aluminum Disk, E.P.D.M. Rubber		
#14 x 3/4" Bubble	10,000	DMI4WA34B/10000