



Polycarbonate Skylight Panel Catalog 2018



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 offers Econo Sunsky 0.8mm, Commercial 1.0mm, 1.5mm Mega and new for 2018 2.0mm DMI 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.

For the customers who want to invest in the strongest profiled panel we offer 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.

New for 2018 is the ultimate in strength the NEW DMI XHD Polycarbonate panel is available in **XHD 2.0mm** thickness in a reflective solar silver to fit the popular R Panel profile. The DMI XHD panel offers the added benefit of less heat gain thanks to a special reflective color.

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	-27.5 psf / +35 psf
1.5mm MR12	5' Centers	FL11238.2	-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 protection that provides protection throughout the panel. This process is different than some competitors products that use 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 page29)



CORRUGATED POLYCARBONATE PROFILE SELECTION GUIDE

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.

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, Sidelites.
Quick Ship American Made Polycarbonate Panels

ECONO 0.8mm

COMMERCIAL 1.0mm

MEGA HD 1.5mm

DMI offers 3 standard grades/thicknesses. Thicker is better and we offer a 25% or 93% upgrade to the 0.8mm competition.

0.8mm Economy Grade

Profile	Color	Length	WHSE	Part#	Expected +/- 5% Light Transmission
MR9	Clear	8', 10', 12', 16', 24'	2,7		90%
MR9	Opal/White	8', 10', 12', 14'	2,7		45%
MR9	Solar Gray	12', Call for selection	7		35%
MR9	Soft White	12', Call for selection	7		85%
PBU	Opal/White	12' *Special Order	7		45%

1.0mm Commercial Grade

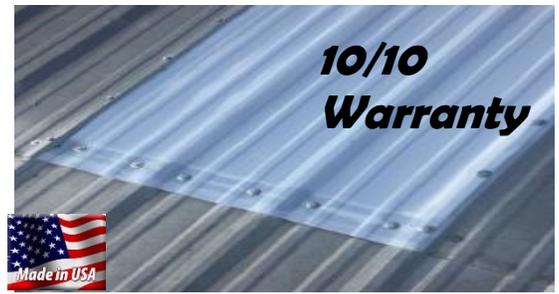
Profile	Color	Length	WHSE	Part#	Expected +/- 5% Light Transmission
MR9	Clear	12'	1,2	DMP341MSCL12	90% FBC#
MR9	White	12'	1,2	DMP341MSWT12	45%
MR12	Clear	12'	1,2	DMPR1MSCL12	90% FL11238.1
MR12	White	12'	1,2	DMPR1MSWT12	45% FL11238.1
MR12	Bronze	12'	1,7	DMPR1MSGR12	35% FL11238.1
5V	White	12'	1	DMP51M5VWT12	45%
2.67 SP	Clear	12'	1,7	DMP10925312C	90%
2.67 SP	White	12'	1,7	DMP10924912W	90%
7.2 MR	Clear	12'	7	DMP72MR12C	90% Special Order
7.2 MR	White	12'	7	DMP72MR12W	45% Special Order
7270	Clear	12'	1	DMIPC727012C	90% Special Order

1.5mm MEGA HD Commercial Grade

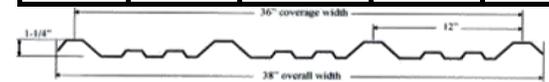
Profile	Color	Length	WHSE	Part#	Expected +/- 5% Light Transmission
MR9	Clear	12'	2	DMPCMR9MC12	90% FBC#
MR9	White	12'	2	DMPCMR9MW12	45%
MR12	Clear	12'	1	DMPCMR12MC12	90% FL11238.2
MR12	White	12'	1,2	DMPCMR12MW12	45% FL11238.2
BR2	Soft White	12'	1	DMPRBR215SW12	80%

2.0mm DMI XHD Silver Reflective

Profile	Color	Length	WHSE	Part#	Light Transmission
MR12	Silver	12'	1	DMPCMR9MC12	20%



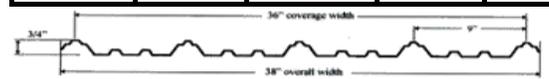
Profile	Overall Width	Net Coverage	Pitch / On Center	Depth / RHeight
MR12				
FBC, TDI	38"	36"	12"	1.25"



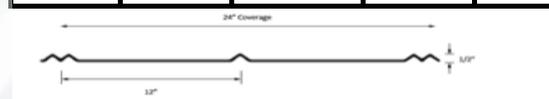
Profile	Overall Width	Net Coverage	Pitch / On Center	Depth / RHeight
BR2				
	39.8"	36"	12"	1.5"



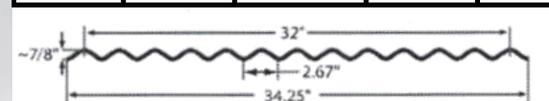
Profile	Overall Width	Net Coverage	Pitch / On Center	Depth / RHeight
MR9				
	38"	36"	9"	.75"



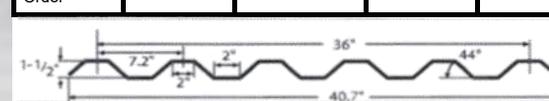
Profile	Overall Width	Net Coverage	Pitch / On Center	Depth / RHeight
5V				
	26"	24"	12"	0.5"



Profile	Overall Width	Net Coverage	Pitch / On Center	Depth / RHeight
2.67 SP				
	34.25"	32"	2.67"	7/8"



Profile	Overall Width	Net Coverage	Pitch / On Center	Depth / RHeight
7.2 MR				
Special Order	40.7"	36"	7.2"	1.5"



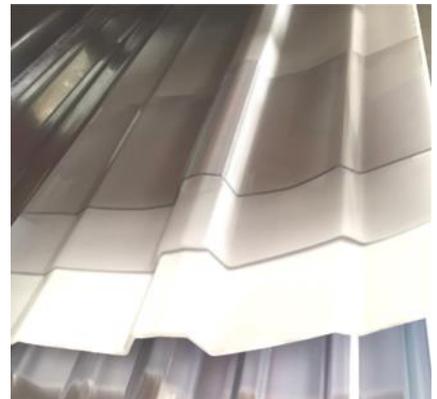
Profile	Overall Width	Net Coverage	Pitch / On Center	Depth / RHeight
DMIPC 7270				
Special Order	39.8"	36"	12"	1.5"



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.

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 Natures 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 Ride Cap

Standard 1.0mm PC ridge cap is available in clear or opal white, bronze by special order.

DMI 2.0mm MEGA Translucent Polycarbonate Ridge Cap ** New **

The stronger big brother to our standard cap offerings. It is twice as thick as our standard allowing this cap to span ridge openings without the extra use of a centerline brace. Available in clear only and ships from our Midwest Service Center.



POLYCARBONATE PANEL TO WOOD STAINLESS STEEL 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



POLYCARBONATE PANEL TO STEEL STAINLESS STEEL 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



POLYCARBONATE PANEL TO STEEL FBC FASTENER

Oversized #14 fasteners with an oversized 1.125" 304 stainless steel diameter washer. This fastener is for installation of polycarbonate panels to light to medium gauge metal substrate up to 8 ga steel to meet Florida Building Code Approval and TDI 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



POLYCARBONATE 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. Predrill required for installation.

Sizes	Qty/Box	Part#
1/4" x 1"	2500	DMI210F100NWESN

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#
3/16 x 7/8" x 25' MTB	14	DMBT31678M
3/32 x 3/8" x 45' SB	40	DMBT3323845
3/32 x 1" x 45' SB	20	DMBT332145
3/16 x 2-1/2" x 20' TB	6	DMBT3162122



POLY-GLAZE™ PLUS CLEAR SILICONE SEALANT

SM5731 Poly-Glaze™ Plus Silicone is a one component, medium modulus, non-corrosive, neutral cure translucent silicone sealant. Primarily used to seal poly to poly and poly to steel panel joints. It has been tested and approved by DMI and Palram for use on MEGA, SUNSKY & SUNTUF panels.

Available Sizes	Qty/Box	Part#
10.1oz tube Translucent	30	DMSM5731C



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" x 2.5" Metal bit	DMI9SWSN7/32
3/8" x 4" Poly bit	DMI9DB384



Fall Protection Screen

Florida Building Code approved Fallguard Skylight Safety Screen kit. 3'9" x 11'4" with hat channel support. Provides passive protection and is easy to install. Outside plastic ring and hat channel are included for a safe and clean installation.

Model	Qty/Box	Part#
Model F-310	1	FGF310

GENERAL POLYCARBONATE CLEANING GUIDELINES

- Never use abrasive or high alkaline cleaners on any DMI polycarbonate products.
- Do not leave cleaners on DMI polycarbonate for extended periods of time. Rinse immediately with cold, clean water.
- Do not apply cleaners in direct sunlight.
- Never use sharp objects, squeegees or razors on polycarbonate.
- Do not clean with gasoline.
- Always practice safety first and never step directly on a polycarbonate panel.
- Always test cleaners in a small inconspicuous area prior to cleaning entire panel to ensure against adverse results.
- Avoid allowing the pressure washer spray tip to come too close to the panel. Pressure washers often have enough pressure at the spray tip to penetrate or tear the panel.
- Avoid dry cleaning, as sand and dust particles clinging to the exterior of the panels may scratch the surface.
- Avoid cleaning the interior surface of DYNAGLAS and THERMAGLAS, as the effectiveness of the anti-condensate coating can potentially be diminished depending on cleaning method or material used.

GENERAL CLEANING INSTRUCTIONS FOR ALL PRODUCTS LISTED BELOW

All of the DMI polycarbonate products listed at below can be easily cleaned utilizing a soft sponge or cloth made from 100% cotton using lukewarm water and a mild dishwashing detergent. All surfaces should then be rinsed with cold water and dried with a soft cotton cloth to reduce water spotting. In some instances this procedure may be inadequate and will require the use of additional cleaning agents. The agents listed below have all been approved for use at room temperature:

- Methyl alcohol
- Isopropyl alcohol
- Petroleum ether (BP 65°)
- Ethyl alcohol
- Heptane
- VM&P Naptha
- Butyl alcohol
- Hexane

As is the case with all thermoplastic materials, certain chemicals can cause structural as well as surface damage and precautions need to be taken to avoid any aggressive cleaning agents. Should you desire to use a cleaning agent not on the approved list, please contact a Palram representative to inquire about our in-house chemical compatibility testing capabilities.

IMPORTANT

1. Polycarbonate can be sensitive to chemicals and sealants. Please check our sealant compatibility chart at

<http://directmetalsinc.com/wp-content/uploads/2017/04/Sealant-Compatiblity-Chart-for-DMI-Polycarbonate-Sheets.pdf>

before using any sealants on ours or others panels.

2. Follow the installation guides found at

http://directmetalsinc.com/dm_product_category/polycarbonate-installation-and-care-guides/#dm-subcategory-products

Failure to follow installation guides or suggested fasteners and accessories may void any and all warranties.

3. Predrill all fastening points.



Distributor order entry or product inquires:
Toll Free Phone: 855-800-8878
Toll Free Fax: 855-800-8877
orders@directmetalsinc.com
Website: www.directmetalsinc.com

We are proud to have over 1300 distributors across the United States of America. These distributors are serviced through our warehousing locations strategically placed to offer fast service and low shipping cost on our quality products.

Return Policy:

All DMI distributors have the right to set their own policies with their customers including but not limited to: return, re-stock, pricing and terms of sale.

*DMI policy to our distributors is that all polycarbonate and PVC panel sales are considered final (**ALL SALES FINAL**). DMI will provide a profile sample at no charge prior to order, it is the customers responsibility to make sure the panel will fit their profile prior to ordering.*

2018 Sales Policies and Conditions:

Direct Metals, Inc. sells materials directly to our registered distributor network. We do not offer direct sales or new accounts to homeowners, contractors or installers; however we can assist you in finding the right product and your closest distributor.

If your company would like to apply to become a new registered DMI distributor, here are guidelines to see if you may qualify to join our distributor network.

Registered dealers must maintain a minimum stock of DMI products.

Registered dealers must purchase an average minimum of \$ 5,000.00 / month.

Registered dealers must offer products for resale and not intercompany use.

Registered dealers must maintain and provide a copy of a Tax exempt resellers license.

Registered dealers must have a strong financial background and be able to have credit approved by DMI.

Dealer applicants should be a minimum of 25 miles from any existing DMI dealer.

If your company does not meet all of the above criteria, DMI can assist you in creating a strong relationship with one of our very competitive distributors.

Corporate address / Main Service Center:

Direct Metals, Inc.
17600 East Street
N. Ft Myers, FL 33917
Phone: 239-599-8527
Fax: 239-599-8545

Midwest Service Center:

Direct Metals of Indiana
1800 Jim Neu Drive, Suite 3
Plymouth, IN 46563
Phone: 574-935-3644
Fax: 574-935-3643
Order tracking : tracking@directmetalsinc.com
Order entry : orders@directmetalsinc.com



www.directmetalsinc.com