

PoliCarb®

NEWS

UPDATING
MULTIWALL
SHEETS RANGE



dott.gallina
POLYCARBONATE SYSTEMS & SHEETS

WHAT'S NEW?

NEW NOMENCLATURE

The PoliCarb® range has always been in constant evolution to meet customer requests and to be inline with current regulations. This proactive attitude has made the offer of multiwall sheets constantly expand. In order to facilitate a homogeneous reading of the entire range, we customized the nomenclature of some types of our products and a new speaking coding has been adopted.

Here is an example of our new coding according to the technical specification that characterizes each product:

PoliCarb® 10 P 07w

SHEET THICKNESS
expressed in mm

TYPE OF INTERNAL STRUCTURE
where P: parallel partitions X: inclined walls and old RDC coding

NUMBER OF WALLS
where w indicates wall

BRAND NEW SHEETS WITH 5 & 7 WALL



MORE RESISTANT & MORE INSULATION
BETTER PERFORMANCE WITH THE SAME THICKNESS

The range of PoliCarb® products has been updated by replacing the 4 and 6-wall sheets with the new 5 and 7 wall, improving the performance of the products thanks to the addition of an extra wall and by changing its geometry of the internal structure. The 4.5mm thick multiwall sheet has been removed from the production standards.

Attention: the new production of the 7 wall PoliCarb® P 07w sheets takes place through a new extrusion die with a new geometry of the internal walls, with a pitch of 14mm and no more than 19,5mm. So it is advisable to pay attention to storage to mix the current production with the previous version.

SHEET WIDTH UP TO 2.500 mm

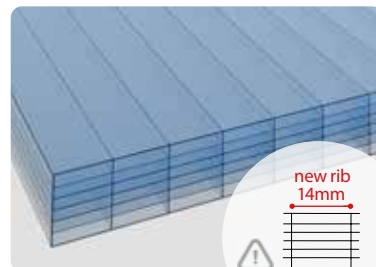


UNIQUE TO EUROPE
CUT EFFICIENCY AND NEW POTENTIAL APPLICATIONS

To offer maximum versatility and to minimize waste, innovative extrusion methods have been adopted in order to produce multiwall sheets with a width of 2.500mm. These are completely unique products on the European market that allow us to satisfy even the most particular requests. In addition, a new 'extra-performance' package has been developed, called Taurus, which allows a warranty up to 20 years. This thanks to a combination of three different production technologies which improve the durability of the PoliCarb® P 07w and PoliCarb® X 05w sheets. It is advisable to check if your equipment is adapted to transport and handle sheets with a width of 2,500m.

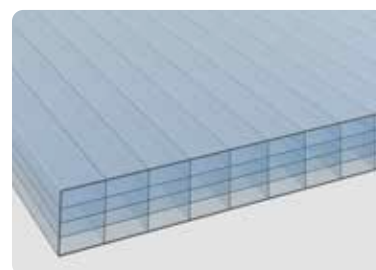
PoliCarb P 07w

	Structure walls	Thickness mm	Weigh kg/m²	Thermal U W/m²K	Width mm	Length mm
7 WALLS						
PoliCarb® 16 P 07w	7	16	2,60	1,8	980-1.050-1.250-2.100- 2.500	6.000
PoliCarb® 20 P 07w	7	20	2,85	1,6	980-1.050-1.250-2.100- 2.500	6.000



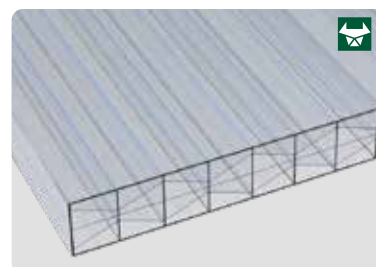
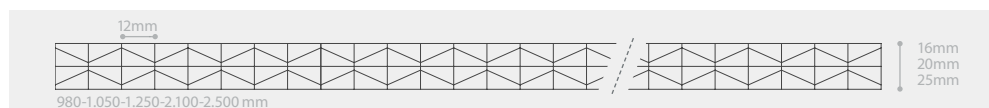
PoliCarb P 05w

	Structure walls	Thickness mm	Weigh kg/m²	Thermal U W/m²K	Width mm	Length mm
5 WALLS						
PoliCarb® 6 P 05w	5	6	1,40	3,1	2.100	6.000
PoliCarb® 8 P 05w	5	8	1,55	2,7	2.100	6.000
PoliCarb® 10 P 05w	5	10	1,75	2,4	2.100	6.000



PoliCarb X 05w

	Structure walls	Thickness mm	Weigh kg/m²	Thermal U W/m²K	Width mm	Length mm
5 WALLS						
PoliCarb® 16 X 05w	5	16	2,55	2,1	980-1.050-1.250-2.100- 2.500	6.000
PoliCarb® 20 X 05w	5	20	3,10	1,8	980-1.050-1.250-2.100- 2.500	6.000
PoliCarb® 25 X 05w	5	25	3,30	1,6	980-1.050-1.250-2.100- 2.500	6.000



PRODUCT RANGE UPDATE

PoliCarb®

APRIL 2020

		Structure walls	Thickness mm	Weight kg/m²	Thermal U W/m²K	Width mm	
2 WALLS							
P 02w		PoliCarb® 4 P 02w	2	4	0,80	3,9	2.100
		PoliCarb® 6 P 02w	2	6	1,30	3,6	2.100
		PoliCarb® 8 P 02w	2	8	1,50	3,3	2.100
WIDE P 02w		PoliCarb® 10 P 02w	2	10	1,70	3,0	980-1.250-2.100
		PoliCarb® 16 WIDE P 02w	2	16	3,70	2,5	980-1.250
3 WALLS							
P 03w		PoliCarb® 10 P 03w	3	10	2,10	2,7	980-1.250-2.100
		PoliCarb® 16 P 03w	3	16	2,70	2,3	980-1.250-2.100
		PoliCarb® 20 P 03w	3	20	3,20	2,1	980-1.250-2.100
5 WALLS							
P 05w		PoliCarb® 6 P 05w	5	6	1,40	3,1	2.100
		PoliCarb® 8 P 05w	5	8	1,55	2,7	2.100
		PoliCarb® 10 P 05w	5	10	1,75	2,4	2.100
X 05w		PoliCarb® 16 X 05w	5	16	2,55	2,1	980-1.050-1.250-2.100-2.500
		PoliCarb® 20 X 05w	5	20	3,10	1,8	980-1.050-1.250-2.100-2.500
		PoliCarb® 25 X 05w	5	25	3,30	1,6	980-1.050-1.250-2.100-2.500
7 WALLS							
P 07w		PoliCarb® 16 P 07w	7	16	2,60	1,8	980-1.050-1.250-2.100-2.500
		PoliCarb® 20 P 07w	7	20	2,85	1,6	980-1.050-1.250-2.100-2.500
		PoliCarb® 25 X 07w	7	25	3,50	1,4	1.250
X 07w		PoliCarb® 32 X 07w	7	32	3,70	1,2	1.250
		PoliCarb® 40 X 07w	7	40	3,90	1,1	1.250
11 WALLS							
X 11w		PoliCarb® 25 X 11w	11	25	3,40	1,3	1.200-1.250-2.100
		PoliCarb® 32 X 11w	11	32	3,70	1,1	1.200-1.250 -2.100
		PoliCarb® 40 X 11w	11	40	4,20	1,0	1.200-1.250 -2.100
13 WALLS							
X 13w		PoliCarb® 55 X 13w	13	55	5,00	0,79	1.200-1.250

SPECIAL TREATMENTS



- To offer products with very high performance that can be used in particular applications, the **new TAURUS performance package** has been introduced, an union of 3 technologies is used in order to reach the warranty extension up to 20 years:

- UV-TECH coextrusion preserves from yellowing
 - external wall thickness of 1mm guarantees maximum resistance to hail impact
 - the internal structure can be made of any color to create design effects
- The TAURUS package is applicable only for PoliCarb P 07w and X 05 sheets.

- Treatment AG_ANTIGRAFF is available for sheets with a maximum width of 1.250mm.



TECHNICAL FEATURES

APPLICATIONS

-  Vertical windows
-  Flat roofing
-  Curved roofing
-  Ceiling

STRENGTHS

- Light transmission
- Resistance to UV rays and hail
- Energy saving
- Affordable price
- Versatility of use
- Lightness and ease of processing

CERTIFICATIONS

-  **COMMISSION CHARGÉE DE FORMULER LES AVIS TECHNIQUES**
Document Technique d'Application
n°6/15-2251_V3 published on 21st/02/2019

-  CE marking in conformity with EN 16153

- Product rated EuroClass B-s1,d0 according to EN 13501-1

LOAD RESISTANCE (daN/m²)

FIXED PLANE SHEET ON 4 SIDES

First of all the choice of the sheet type is defined on the basis of the snow (pressure) and wind load (pressure / depression). The thickness is an essential criterion for identifying the product suitable for the load resistance needs, according to the surface size.

PoliCarb® 10 P 02w						th. 10 mm
Width (m)						
Length (m)	1.20	1.00	0.80	0.70	0.50	
1.00	70	80	100	110	170	
1.50	50	75	90	100	165	
2.00	40	70	85	90	165	
2.50	30	70	75	85	160	
3.00	30	65	70	80	140	

PoliCarb® 16 WIDE P 02w						th. 16 mm
Width (m)						
Length (m)	1.20	1.00	0.90	0.80	0.60	
1.00	175	205	220	240	275	
1.50	130	185	205	220	265	
2.00	110	130	145	155	200	
2.50	75	110	110	120	160	
3.00	75	95	95	110	155	

PoliCarb® 16 X 05w						th. 16 mm
Width (m)						
Length (m)	1.20	1.00	0.90	0.80	0.60	
1.00	120	140	160	200	250	
1.50	100	130	150	190	230	
2.00	90	120	130	140	180	
2.50	70	100	100	110	145	
3.00	70	85	85	100	140	

PoliCarb® 20 X 05w						th. 20 mm
Width (m)						
Length (m)	1.20	1.00	0.90	0.80	0.60	
1.00	140	155	180	230	280	
1.50	120	140	170	200	255	
2.00	100	130	140	160	205	
2.50	80	120	130	140	165	
3.00	80	100	100	130	160	

PoliCarb® 25 X 05w						sp. 25 mm
Width (m)						
Length (m)	1.20	1.00	0.90	0.80	0.60	
1.00	200	220	285	350	350	
1.50	180	210	275	340	350	
2.00	130	170	175	180	210	
2.50	100	140	145	150	165	
3.00	90	130	135	140	160	

PoliCarb® 25 X 11w						th. 25 mm
Width (m)						
Length (m)	1.20	1.10	1.00	0.90		
1.50	145	180	195	210		
2.00	105	120	130	150		
2.50	75	85	95	110		
3.00	70	75	80	100		

PoliCarb® 32 X 11w						th. 32 mm
Width (m)						
Length (m)	1.20	1.10	1.00	0.90		
1.50	150	185	200	225		
2.00	120	140	150	175		
2.50	100	115	120	145		
3.00	95	100	110	135		

PoliCarb® 40 X 11w						th. 40 mm
Width (m)						
Length (m)	1.20	1.10	1.00			
1.50	175	190	205			
2.00	140	155	175			
2.50	110	140	160			
3.00	100	135	155			

PoliCarb® 6 P 02w					th. 6 mm
Width (m)					
Length (m)	0.70	0.60	0.50	0.40	
1.00	50	80	105	120	
1.50	45	75	105	110	
2.00	40	70	100	110	
2.50	35	65	90	100	
3.00	35	65	90	100	

PoliCarb® 10 P 05w					th. 10 mm
Width (m)					
Length (m)	1.20	1.00	0.90	0.70	0.50
1.00	60	70	85	100	190
1.50	40	65	75	95	185
2.00	30	60	70	80	180
2.50	25	60	65	75	170
3.00	25	55	60	75	175

PoliCarb® 16 P 03w					th. 16 mm
Width (m)					
Length (m)	1.20	1.00	0.90	0.80	0.60
1.00	105	135	150	175	230
1.50	70	125	140	150	220
2.00	70	120	135	140	150
2.50	70	110	110	135	145
3.00	60	90	100	130	140

PoliCarb® 16 P 07w					th. 16 mm
Width (m)					
Length (m)	1.20	1.00	0.90	0.80	0.60
1.00	170	190	210	240	270
1.50	130	180	200	220	250
2.00	105	125	130	150	190
2.50	75	110	125	130	155
3.00	75	90	100	110	150

PoliCarb® 20 P 07w					th. 20 mm
Width (m)					
Length (m)	1.20	1.00	0.90	0.80	0.60
1.00	190	210	230	270	300
1.50	160	200	220	240	290
2.00	120	150	150	170	205
2.50	90	130	140	145	165
3.00	80	110	110	135	160

PoliCarb® 25 X 07w					th. 25 mm
Width (m)					
Length (m)	1.20	1.00	0.90	0.80	0.60
1.50	180	240	315	385	390
2.00	170	200	240	280	275
2.50	145	170	195	215	240
3.00	140	165	190	210	235

PoliCarb® 32 X 07w					th. 32 mm
Width (m)					
Length (m)	1.20	1.00	0.90	0.80	0.60
1.50	220	250	325	395	430
2.00	170	210	260	305	330
2.50	145	190	225	255	270
3.00	140	180	210	235	250

PoliCarb® 40 X 07w					th. 40 mm
Width (m)					
Length (m)	1.20	1.00	0.90	0.80	0.60
1.50	240	255	330	400	450
2.00	180	215	265	315	355
2.50	155	190	230	265	280
3.00	150	185	215	245	255

PoliCarb® 55 X 13w					th. 55 mm
Width (m)					
Length (m)	1.20	1.10	1.00		
1.50	225	220	250		
2.00	200	205	210		
2.50	155	170	180		
3.00	150	160	170		



LOAD RESISTANCE (daN/m²)

FIXED SHEETS COLD BENDED ON 4 SIDES

PoliCarb® lends itself perfectly to the construction of integral arch structures (tunnel greenhouse type) where the multiwall structure increases the rigidity of the curved sheet longitudinally to the ribs.

Minimum bending radius

SHEET TYPE	4P 02w	6P 02w	8P 02w	10P 02w	10P 05w	16P 03w	16X 05w	16P 07w	20X 05w	20P 07w	th > 20mm
RADIUS (mm)	750	1.000	1.500	1.750	2.000	2.800	3.500	2.800	4.000	3.400	not bendable

Sheet thickness (mm)

	6P	8P	10P	16P	16X	20P	20X	6P	8P	10P	16P	16X	20P	20X	6P	8P	10P	16P	16X	20P	20X	6P	8P	10P	16P	16X	20P	20X
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Radius (m)

Purlins spacing (m)

1.00	1.80					1.50					1.25					1.07				
1.20	1.50					1.25					1.00					0.90				
1.40	1.20	1.90				0.96	1.70				0.83	1.30				0.72	1.10			
1.60	1.00	1.65				0.82	1.27				0.68	1.06				0.60	0.92			
1.80	0.80	1.23	1.68			0.64	1.00	1.38			0.58	0.84	1.18			0.73 1.02				
2.00	0.75	1.15	1.60			0.60	0.92	1.28			0.55	0.78	1.08			0.68 0.93				
2.20	0.67	0.98	1.35			0.82 1.12			0.70 0.95					0.82						
2.40	0.60	0.88	1.23			0.70 1.00			0.84					0.74						
2.60	0.75 1.07					0.90														
2.80	0.93 1.92					1.58					1.33					1.15				
3.00	0.88 1.78					1.45					1.21					1.06				
3.20	0.83 1.62					1.32					1.11					0.97				
3.40	0.75 1.48 1.70					1.24 1.45					1.07 1.20					0.95 1.10				
3.60	1.40 1.60 1.65					1.20 1.25 1.41					1.04 1.15 1.17					0.92 1.00 1.08				
3.80	1.30 1.50 1.55					1.15 1.20 1.35					1.00 1.12 1.15					0.90 1.00 1.07				
4.00	1.20 1.38 1.43 1.60					1.10 1.15 1.26 1.35					1.05 1.10 1.23					0.97 1.03 1.15				
4.20	1.20 1.35 1.40 1.58					1.10 1.22 1.28					1.00 1.05 1.17					0.95 1.00 1.13				
4.40	1.12 1.28 1.35 1.50					1.07 1.17 1.25					0.98 1.00 1.15					0.95 0.97 1.11				
4.60	1.20 1.28 1.40					1.05 1.14 1.23					0.98 1.00 1.15					0.93 0.96 1.08				
4.80	1.15 1.25 1.35					1.00 1.11 1.17					0.95 0.98 1.11					0.90 0.94 1.05				
5.00	1.20 1.30					1.07 1.11					0.95 1.00					0.90 0.95				
5.20	1.15 1.25					1.02 1.07					0.90 0.95					0.85 0.90				

Load (daN/m²)

80

100

120

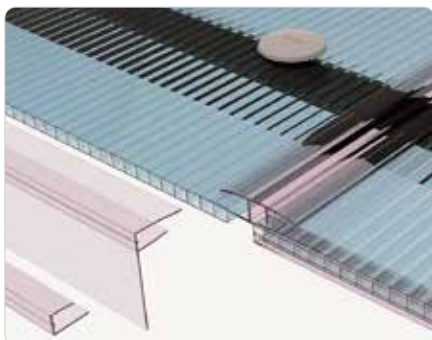
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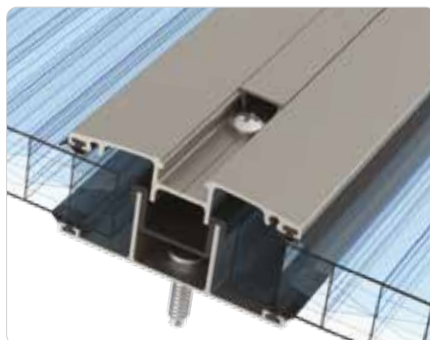
EASY FOR ASSEMBLY & ACCESSORIES

Multiwall sheets are widely used in the door and window frames sector due to their lightness and insulation characteristics. They also find application in the graphics and set-up sector thanks to their versatility of use as partitions, finishing elements, and as a support for visual communication, as they can be used for direct printing. The wide availability of thicknesses and formats, combined with a complete series of accessories, allows the use of multiwall sheets for countless applications in the most varied sectors.

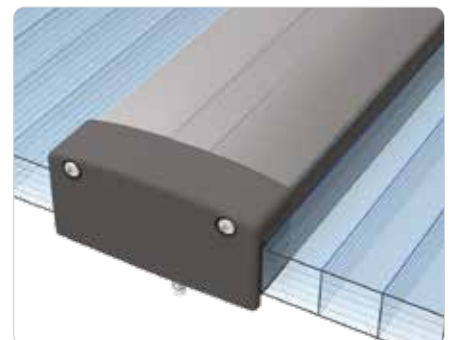
PoliCarb® sheets come with a complete series of accessories designed directly by dott.gallina to guarantee perfect product installation with various installation methods. The range of mounting elements is made up of joint profiles both in UV protected polycarbonate and in aluminium, having a H | R | U | F section suitable for any application need. It is also recommended to close the open walls of the sheets with a special polycarbonate profile, or with micro-perforated aluminium adhesive tape, which allows correct ventilation and avoids internal contamination. The closing cap that is used on the aluminium H-profiles allows to maintain this protection even at the junction points.



Installation detail of polycarbonate profiles: H type to joint together close sheets and U/F versions for the frame closure of the air-channels.



Junction solution with an aluminum profile for multiwall sheets with hidden screw. The simpler version with visible screw is also available.



Detail of the closing cap fixed with screws for the joining profiles in aluminum.



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