

BENEFITS OF THE SOLUTION



UV RESISTANT



IMPACT RESISTANT



THERMAL COMFORT



ECO-RESPONSIBLE



FAST TO INSTALL

ONDUCLAIR® PCMW twins two benefits in one: **the clear light transmission of glass, robustness and many other advantages.**

■ SUSTAINABLY OPTIMIZES THE TRANSMISSION OF NATURAL DAYLIGHT INTO THE BUILDING

ONDUCLAIR® PCMW offers outstanding light diffusion while filtering out UV rays, so the system keeps its original optical and mechanical properties.

■ EXTREME WEATHER-PROOF

ONDUCLAIR® PCMW offers strong resistance to extreme temperature swings from -30°C up to +120°C and excellent resistance to hail.

■ IMPACT AND LOAD-RESISTANT

ONDUCLAIR® PCMW is engineered with a multiwall structure enabling it to withstand load stress, so it can comfortably absorb balls shocks (to 18 032 - T3 under DIN standards for ONDUCLAIR® PCMW Panel 40) and accidental knocks (tested at 1200 Joules for PCMW 177/51), making it the ideal solution for sports facilities.

■ DELIVERS THERMAL COMFORT AND TANGIBLE ENERGY EFFICIENCIES

ONDUCLAIR® PCMW delivers thermal insulation by using the air in its cells as a natural insulator. The net result is that the system gives optimal temperature stability inside the building, which translates into savings on energy bills.

■ DELIVERS SUSTAINABLE ENVIRONMENTAL PROTECTION



ONDUCLAIR® PCMW is environmentally-friendly: the solution incorporates recycled polycarbonate resin and is itself 100% recyclable, while at the same time playing a role in the production of numerous consumer goods.

■ MANAGEABLE, EASY TO LAY SOLUTION THAT OPTIMIZES INSTALLATION COSTS

Our systems come as big, tough, yet lightweight panels that are easy to handle and simple to fit. They are lightweight enough to be installed as on lightweight building frames, offering a cheaper solution. No special tooling needed.

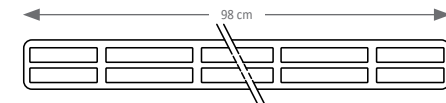
■ TAILORS TO YOUR PROJECT NEEDS

The Onduline offer is a vast range of flexible, modular product solutions that seamlessly fit your needs. Our sheeting can be tailored to an array of architectural configurations without compromising the all-round aesthetics of the building. Just pick the dimensions, performance grade and colours you need to get your own "custom" solution:

- ONDUCLAIR® PCMW: quality and reliability in a safe and long-term-dependable daylighting solution;
- ONDUCLAIR® PCMW +: a package system (sheeting and profiles) to rapidly build porches, extensions or swimming pool shelters;
- ONDUCLAIR® PCMW Connect 16: complete connectable package system that is weatherproof, easy-to-fit, and equally good as a roof covering or cladding;
- ONDUCLAIR® PCMW Panel 40 (3-walls or 8-walls structure) and Panel 50 (10-walls structure): complete modular package systems that are impactresistant and easy-to-fit (see Installation Guide), delivering the ideal translucent cladding solution;
- ONDUCLAIR® PCMW 177/51: a robust and insulating solution that can be adapted to fibre cement sheets to bring your roofing depth and texture.

PROFILES ON OFFER

ONDUCLAIR® PCMW:

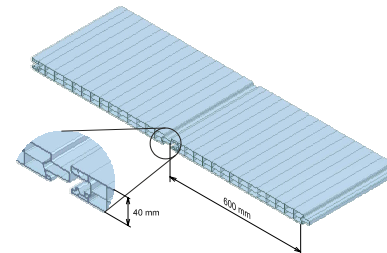


ONDUCLAIR® PCMW 177/51 (corrugated)

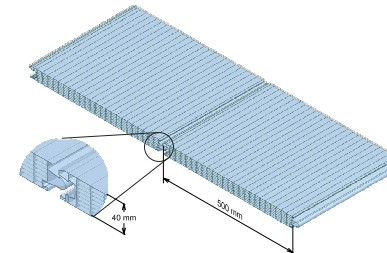


ONDUCLAIR® PCMW PANEL 40 AND 50

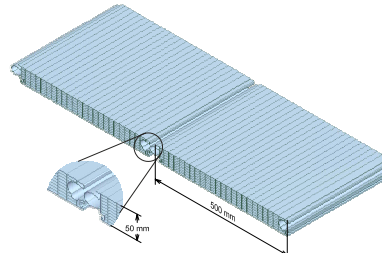
Panel 40 - 3-walls structure



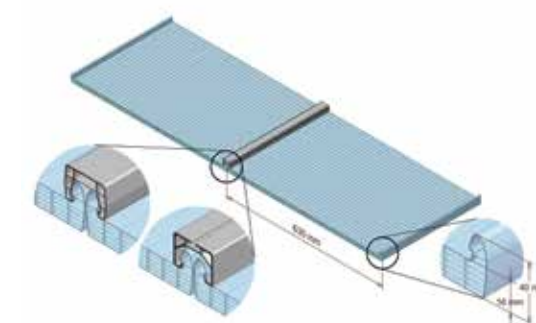
Panel 40 - 8-walls structure



Panel 50 - 10 walls structure



ONDUCLAIR® PCMW CONNECT 16



An array of multiwall polycarbonate systems to seamlessly fit your project configuration.



Production facility

ONDUCLAIR®

PCMW



Insulating
Translucent
Fire rating



Onduline®

www.onduline.com



PUBLIC-ACCESS BUILDINGS



FARM BUILDINGS



INDUSTRIAL BUILDINGS

Onduline®

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Onduline French limited liability company with managing board and supervisory board, share capital of €11,323,485.05 - R.C.S. Nanterre 552 088 361

TYPICAL APPLICATIONS

Whatever your project, as a roof covering or cladding solution, for new builds or existing properties, ONDUCLAIR® PCMW is a daylighting system geared to applications in:

- industrial facility buildings or warehousing;
- farm buildings;
- sports facilities such as gymnasiums, indoor tennis courts, swimming pools, etc.;
- public-access buildings;
- annexes: houseshelters, pergolas, greenhouses, etc.



ONDULINE, INDUSTRY INSIGHT PUT TO WORK FOR YOU

Your satisfaction comes first!

- Global presence with agencies in over 100 countries across all 5 continents to reach out to our customers and better capture their needs! A broad product range, industry expertise and market insight to select the best-fit system, from lightweight roofing solutions to exclusively-designed cutting-edge build systems.
- Outstanding expertise in plastics-based covering and daylighting systems (production and marketing since 60 years) to offer you modular technical solutions that seamlessly fit your needs.
- Start-to-finish support throughout your projects: technical service, custom-tailored deliveries, and more.

TECHNICAL SPECIFICATIONS

	ONDUCLAIR® PCMW			ONDUCLAIR® PCMW +		ONDUCLAIR® PCMW 177/51		ONDUCLAIR® PCMW PANEL 40 3-WALLS	ONDUCLAIR® PCMW PANEL 40 8-WALLS	ONDUCLAIR® PCMW PANEL 50 10-WALLS	ONDUCLAIR® PCMW CONNECT 16						
Description	Flat multiwall sheets (organic glazing) in polycarbonate thermoplastic resin			Flat multiwall sheets systems (organic glazing) in polycarbonate thermoplastic resin and profiles		Corrugated multiwall sheets (organic glazing) in polycarbonate thermoplastic resin		Modular flat multiwall sheets system (organic glazing) for wall cladding, in polycarbonate thermoplastic resin			Connectable flat multiwall sheets systems (organic glazing) for roofing and cladding in polycarbonate thermoplastic resin						
Length (mm)	1500 to 7000			1500 to 7000		1520 or 3050 as standard (other lengths available on request)		6000 in stock – custom-cut length		custom-cut length		custom-cut length					
Total width (mm)	1050	980		980		920 or 1100		N/A			N/A						
Cover width (mm)	N/A			1000		873 or 1050		600		500		630					
Thickness (mm)	6	10	16	10	16	6		40		50		16					
Finish	1 external side UV protection			1 external side UV protection		1 external side UV protection		1 external side UV protection			Double sided UV protection						
Colours	Crystal (other colours available on request)			Crystal (other colours available on request)		Crystal (other colours available on request)		Crystal (other colours available on request)			Crystal (other colours available on request)						
Number of walls	2		3	2		3		2		3		8		10		6	
Fire performance rating	B,s1-d0			B,s1-d0		B,s1-d0		B, s2-d0			B-s2-d0						
Light transmission	82%	81%	74%	81%	74%	80%		72%	62%	53%	64%						
Impact resistance	N/A			N/A		1200 J		1200 J			1200 J						
Service temperature	-30°C to 120°C			-30°C to 120°C		-30°C to 120°C		-30°C to 120°C			-30°C to 120°C						
U-value (W/m² °C)	3.9	2.8	2.35	2.8	2.35	3.3		1.69	0.98	0.9	1.7						
Linear expansion coefficient	0.065 mm/m/°C			0.065 mm/m/°C		0.065 mm/m/°C		0.065 mm/m/°C			0.065 mm/m/°C						
Guarantee (conditional warranty)	10 years			10 years		10 years		10 years			10 years						