

A new partner for Panel Systems

Ravago Building Solutions, Europe’s largest manufacturer of extruded polystyrene products, has acquired the European Building Products division of Dow Chemical.

The acquisition of Dow’s extrusion plants across Europe includes Kings Lynn, the UK manufacturer of market leading products such as Styrofoam and XEnergy. Panel Systems will remain a key partner to Ravago and will maintain its position as the UK’s largest fabricator and supplier of Ravatherm XPS to industries including caravans, trucks, motorhomes, underfloor heating, construction and PVC-U doors.

Rebranding Strategy for Ravago

Ravago has embarked on a key strategy of rebranding the full range of Dow products. This will see key brands such as Styrofoam, XEnergy and Floormate replaced by Ravatherm XPS. All sales and marketing literature and packaging will reflect these changes.

New Name, Same Performance

Ravatherm XPS will continue to be the UK’s market leading XPS product with the same technical performance, extensive product range and excellent availability.

Applications:	
PVC-U Door Panels	Portable Buildings
Underfloor Heating	Lightweight Furniture
Caravans & Motorhomes	Craft
Automotive Industry	Sandwich Panels
Packaging	Cavity Closers
Modelling	Truck Panels

- ✓ Low thermal conductivity
- ✓ Excellent moisture resistance
- ✓ Long term durability and performance
- ✓ Easy and safe to handle
- ✓ Quick and simple to cut and shape
- ✓ Ozone Depletion Potential (ODP) of zero and Global Warming Potential (GWP) of less than five
- ✓ Lightweight, but with high compressive strength
- ✓ Excellent bonding and lamination properties

Ravatherm XPS - cut and fabricated to suit customer needs.

Ravatherm XPS is available in a range of sheet sizes. Lengths vary from 1940mm to 3050mm and widths from 600mm to 1200mm.

Hot wire cutting - Panel Systems can hot-wire cut length, width and thickness in a continuous process with a standard tolerance of +/- 0.5mm. This is suitable for most bonding operations.

CNC Machining - Ravatherm XPS is an ideal material for CNC machining. Supported by our in-house CAD facilities, customers can supply their own drawings in a range of file formats to enable rapid prototyping of components.

Sanding - Where improved tolerances are required, Panel Systems offers a comprehensive sanding service to +/- 0.3mm.

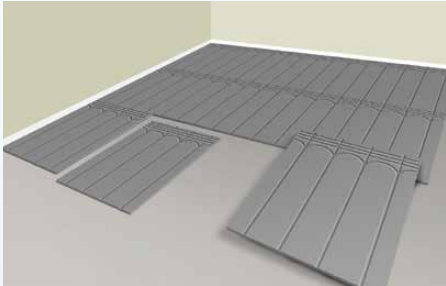
Grooving - When manufacturing large panels grooving the Ravatherm XPS can improve the quality of the bond strength. This service is available on hot-wire cut and sanded sheets.

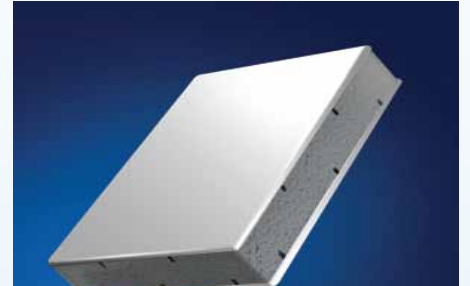
Ravatherm XPS products available from Panel Systems

New Name	Previous Name
Ravatherm XPS H LB	Styrofoam LBH (Blue)
Ravatherm XPS X H LB	XEnergy LBH (Grey)
Ravatherm Underfloor Heating Foam	Styrofoam Underfloor Heating Foam
Ravatherm XPS X 300 SB	Dow Floormate 300A
Ravatherm XPS X 500 SL	Dow Floormate 500A
Ravatherm XPS X 700 SL	Dow Floormate 700A
Ravatherm XPS X 300 SL	XEnergy SL
Ravatherm XPS X MK	XEnergy MK
Ravatherm X PLUS RTM	XEnergy RTM Plus
Ravatherm X PLUS HD300	XEnergy HD300


Caravans/motorhomes

Truck Panels

Craft

Underfloor Heating

PVC-U door panels

Sandwich panels
Environmental:

Ravatherm XPS is an ideal option for projects requiring proven environmental performance. This material has an Ozone Depletion Potential (ODP) of zero and Global Warming Potential (GWP) of less than five. This helps building designers meet increasingly stringent energy efficiency and sustainability demands. At all times, Panel Systems ensures that the customer achieves their required sheet size with the minimum of waste. Any waste created during production is compacted and recycled.

Properties	Standard	Unit	Ravatherm XPS X H LB	Ravatherm XPS H LB	Ravatherm XPS X PLUS RTM
Density (typical value)	EN 1602	Kg/m ³	32	33	40
Thermal Conductivity declared	EN 13164	W/(m.K)	0.031 (<150mm) 0.032 (≥150mm)	0.033	0.029
Compressive stress or compressive strength @ 10% deformation 1)	EN 826	kPa	300	300	400
Tensile Strength 1)	EN 1607	kPa	600	600	900
Shear Strength	EN 12090	kPa	250	250	400
Compressive creep after 50 years ≤ 2% deformation under stress	EN 1606	kPa	-	-	110
Moduli	EN 826	Mpa	12 (≤30mm) 15 (30<≤ 80mm) 20 (>80mm)	12 (≤30mm) 15 (30<≤ 80mm) 20 (>80mm)	17 (≤30mm) 22 (30<≤ 80mm) 28 (>80mm)
Tensile Modulus	EN 1607	Mpa	24(>50mm)	24(>50mm)	128 (≥50mm)
Shear Modulus G	EN 12090	Mpa	8	8	10
Water vapour diffusion resistance factor (tabulated value)	EN 12086	-	150	150	150
Long term water absorption by total immersion	EN 12087	%	1,5	1,5	1,5
Dimensional stability under specified temperature (70°C) and humidity conditions (90%rh)	EN 1604	%	<5	<5	<5
Coefficient of linear thermal expansion (typical value)	-	mm/(m.K)	0,07	0.07	0.07
Reaction to fire Euroclass	EN 13501-1	-	E	E	E
Temperature limits	-	°C	-50/+75	-50/+75	-50/+75

Data correct as at March 2020. Up to date manufacturers data sheets are available upon request.