



# Product Guide

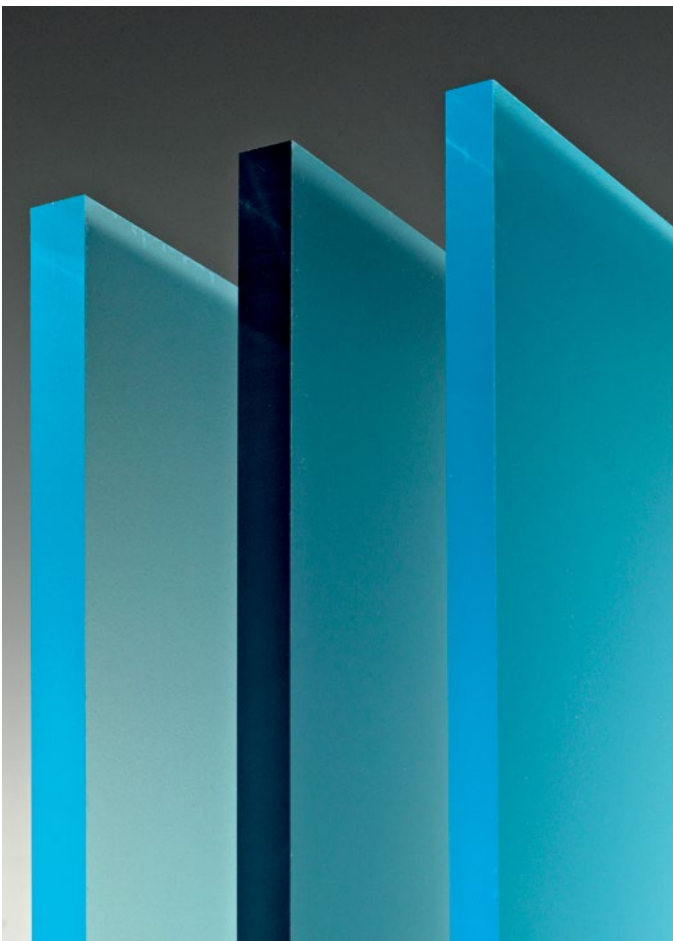
# XT SOUND BARRIER WALL

## XT SOUND BARRIER WALL GRADES ARE TRANSPARENT, NOISE REDUCING AND OFFER MANY CREATIVE OPTIONS FOR BUILDING AND INDUSTRIAL GLAZING.

XT Sound Barrier Wall Flysafe® is the latest addition to our range of Sound Barrier Walls, reducing the chance of 'birdstrike' — where birds fly into clear sheets, glass and other transparent architectural elements.

As they do not see these as obstacles to be avoided, the solution is to create a contrast effect on the transparent barrier which is visible to birds, who perceive gaps of approximately 10 cm (about the size of your hand) as too small to fly through.

The design is a sophisticated and unsymmetrical pattern that can be used in all directions. Whereas the markings appear as a barrier to birds, the foil still allows good transparency for the human eye.



### PRODUCT IDENTIFICATION

XT Sound Barrier Wall, XT Sound Barrier Wall Soft Tone and XT Sound Barrier Wall Flysafe are all grades of Sound Barrier Wall sheets from Polycasa®.

### CHARACTERISTICS

- Excellent noise reduction, good optical properties, very high transparency, superior UV light resistance and outstanding weather resistance.
- Easy to process.
- Due to the pattern printed onto the inside of the laminated film of Flysafe, it can neither be scratched, damaged, nor removed by graffiti-cleaner.
- Soft Tone has a matt soft surface, avoiding light reflective effects or increase light scattering.
- The noise barrier elements comply with the product standard EN ISO 7823-2 as well as construction regulations including EN 1793 and EN 1794.

POLYCASA XT SBW FLYSAFE is highly effective and is classified as "Bird Protection Glass" according to ONR 191040 at Biological Station Hohenau –Ringelsdorf.

### APPLICATIONS

- Sound barrier wall devices.
- Large scale glazing.
- Front covers.
- Conservatories.
- Roofing.

### PRODUCT RANGE

- Standard sheet size is 3050 mm x 2050 mm (other sheet sizes on request).
- Product range is available from 15 mm to 25 mm in thickness.
- Colour range of: clear, blue, green, brown and grey. (The print can be ordered in different colours depending on the order quantity.)
- Comes with a 10 year warranty.

## TECHNICAL INFORMATION

Polycasa XT Sound Barrier Walls and variations Soft Tone and Flysafe have basically the same characteristics as Polycasa XT standard material

GENERAL			
Property	Norm	Unit	POLYCASA XT SBW™
Density	ISO 1183	g/cm <sup>3</sup>	1.19
Forming temperature – depending on the process		°C	140 -190
MECHANICAL			
Property	Norm	Unit	POLYCASA XT SBW™
Tensile strength	ISO 527	MPa	70
Modulus of elasticity	ISO 527	MPa	3200
THERMAL			
Property	Norm	Unit	POLYCASA XT SBW™
Vicat temperature (B 50)*	ISO 306	°C	105
Specific heat capacity	ISO 11357-4	J/gK	1.47
Linear thermal expansion	DIN 53752	K <sup>-1</sup> x10 <sup>-5</sup>	7
Thermal conductivity	DIN 52612	W/mK	0.19
Service temperature continuous use		°C	70
Max. temperature short term use		°C	90
OPTICAL			
Property	Norm	Unit	POLYCASA XT SBW™
Light transmission (15 – 20 mm clear)	DIN 5036-3 / ISO 13468-2	%	> 90
SOUND BARRIER ELEMENT			
Property	Norm	Unit	POLYCASA XT SBW™
Sound reduction	EN 1793-2	dB	28 – 30
Fire resistance	EN 1794-2, A		Class 3
Mechanical resistance	EN 1794-1		Approved

\*Pre-treatment 16h at 80°C

Note: Our technical recommendations are without legal obligation. The information given in this brochure is based on our knowledge and experience to date. It does not release the user from the obligation of carrying out own tests and trials, in view of the many factors that may affect processing and application; neither do they imply any legally binding assurance of certain properties or of suitability for a specific purpose. It is the responsibility of those to whom we supply our products to ensure that any proprietary rights and existing laws and legislation are observed. Technical data of our products are typical ones; the actually measured values are subject to production variations.

The advantages of using XT Sound Barrier Wall in comparison with more traditional materials such as concrete are that it: is much more lightweight (allowing for easier construction); has a better optical view; avoids the creation of solid divisions; and is more aesthetically pleasing due to the range of colours and finishes available. Plus, the noise barrier elements are sound-absorbing, break-resistant and highly transparent.



For further information on the wide range of Polycasa products please contact us as follows;

**UK and Ireland**

T: 00 44 28 67 74 11 11

**France, Italy, Greece and Cyprus**

T: 00 32 14 57 67 11

**Germany, Austria, Switzerland**

T: 00 49 61 31 63 11 82

**Spain and Portugal**

T: 00 34 93 565 12 30

**Central and Eastern Europe**

T: 00 421 41 707 14 20 – 24

**Benelux, Scandinavia and all other countries**

T: 00 32 14 57 67 11

**HEAD OFFICE**

**Polycasa**

Van Doornelaan 2a

BE 2440 Geel

Belgium

T: 00 32 14 57 67 11

F: 00 32 14 58 96 21

E: [info@polycasa.com](mailto:info@polycasa.com)

W: [www.polycasa.com](http://www.polycasa.com)

Polycasa offers an extensive range of plastic sheets to distribution and industrial partners, with an industry leading selection of polymers, thicknesses, sizes, colours, patterns, and coatings.



**Brands from Polycasa:**



While we have made every effort to ensure the accuracy of the information it is provided on an "as is" basis and without liability, particularly including (but not limited to) liability with regard to any up to date status, completeness or correctness of the information or any liability for the merchantability of products, their fitness for any particular purpose, or the infringement of third party rights. Colours of the products are for indication purposes only and may not represent the colour of the actual product. Any opinions provided in the Product Guide are not statements or representations of fact and they are not intended to form part of any offer or contract. © Polycasa Group, 2013, all rights reserved.