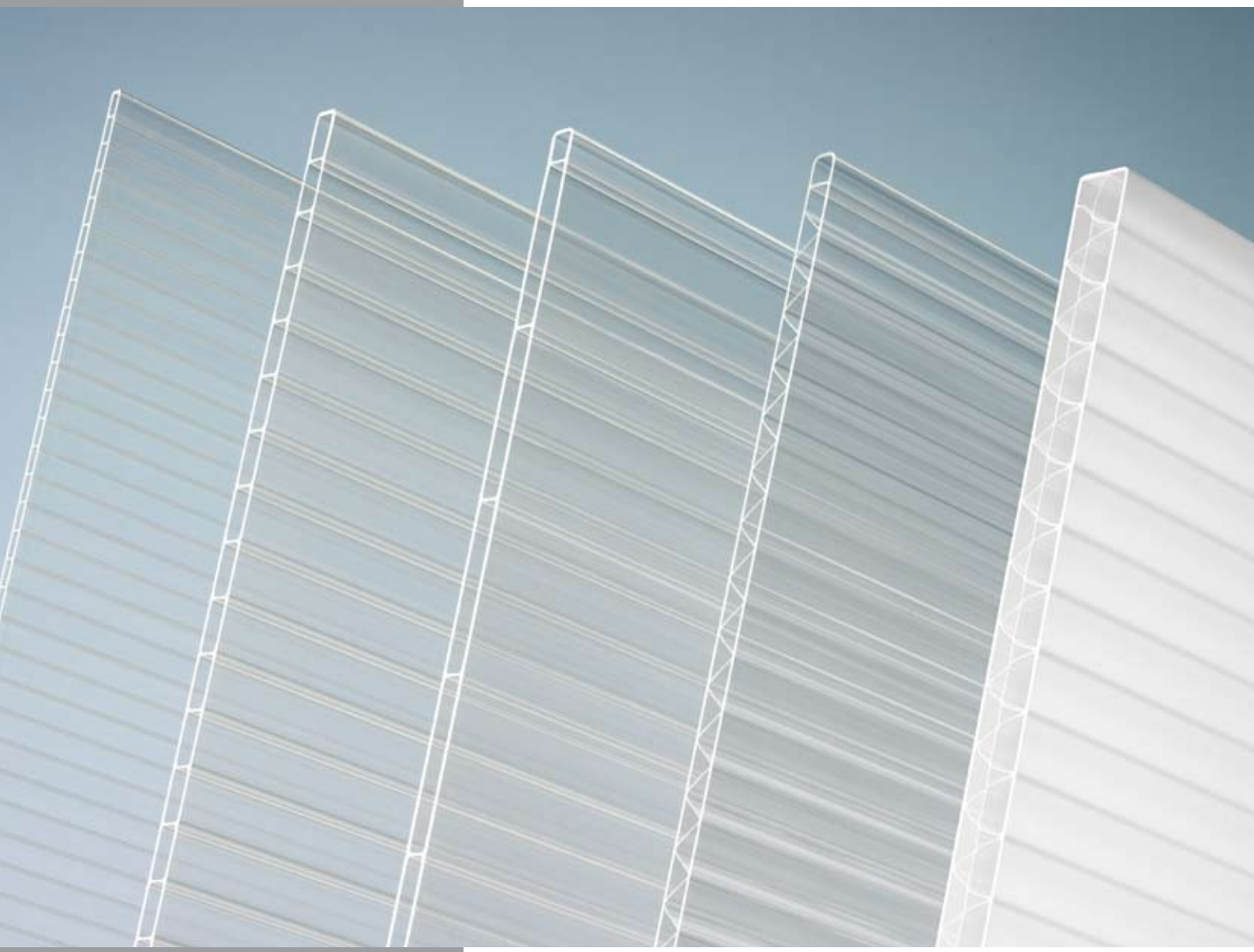
HIGHLUX®

Multi-Skin Sheets

Technical Information



MÖNCH
Kunststoff-Technik GmbH

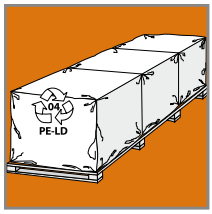
Ref. no. 2.2 March 2008

The sheet is completely protected against UV radiation by the "Naturally UV-Stable Technology."

HIGHLUX®
Naturally UV-Stable

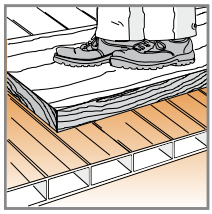
HIGHLUX® Multi-Skin Sheets

Guidelines for Installation

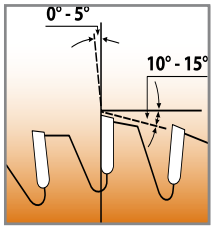


Storage:
If possible, store the material indoors. HIGHLUX® multi-skin sheets are supplied with surface masking (PE film) and recyclable white polyethylene sheeting for protection against sunlight, UV light and moisture. If they are stored outdoors, the outer packaging must be left in place. Keep the open ends sealed. Stack three pallets at most (with standard number of sheets per pallet).

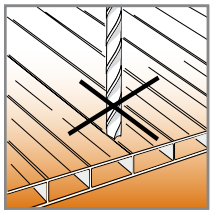
Fire rating:
HIGHLUX® multi-skin sheets are classed as normally flammable (DIN 4102-B2). Protect them from open flame and excessive heat as for wood and other combustible materials. Use the multi-skin sheets in accordance with the valid building regulations and manufacturer's instructions.



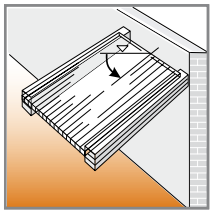
Access:
For your own safety and to avoid damage to HIGHLUX® multi-skin sheets, always use wooden crawling boards or similar devices for walking over the sheets. Preferably, these boards should be placed across the load-bearing members of the supporting structure. Padded ladders or scaffolding are required for access to steeply inclined roofs.



Sawing:
The best results are obtained with carbide-tipped sawblades. Use high-speed circular saws. Clamp the sheet firmly to avoid flutter.

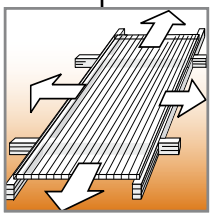


Drilling:
We advise against drilling the sheets because pointwise fastening of HIGHLUX® multi-skin sheets poses a number of problems. Please ask your supplier for further information.

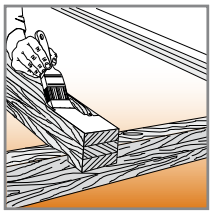


Roof pitch:
A minimum roof pitch of 5° (9 cm/m) is required to install HIGHLUX® multi-skin sheets. However, larger pitches are preferable. Secure the sheets against slipping. Always install the sheets with their webs in the direction of water flow.

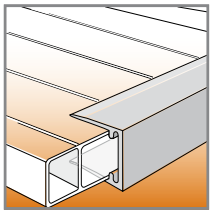
Allowance for expansion:
HIGHLUX® multi-skin sheets expand due to heat and/or moisture. An allowance of +6 mm/m sheet length and width must therefore be made for expansion (the glazing bars allow for contraction due to cold).



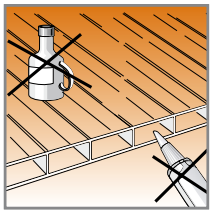
Supporting structure:
To avoid local heat buildup in the multi-skin sheets, the upward-facing surfaces of the structural members should be provided with a white or reflective coating. The supporting structure must be non-warping (laminated timber beams, if wooden structures are used). In addition, a space of at least 10 mm must be left between the sheets and the crosswise supports.



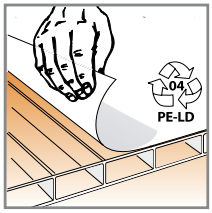
End closure:
HIGHLUX® multi-skin sheets are slightly permeable to water vapor, which means that condensation may form inside the sheets. Seal the upper sheet ends, and close the lower ends with appropriate sections that allow condensation to drain off, while preventing dirt from entering.



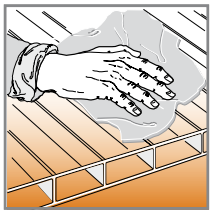
Compatibility:
The auxiliary agents used for installation, cleaning agents, solvents, sealing strips etc. may cause stress cracking of the material in the course of time. Make sure the agents used are compatible with HIGHLUX®. Ask your authorized distributor to recommend compatible sealing agents.



Protective masking:
HIGHLUX® multi-skin sheets leave the factory covered with a PE masking film that protects them against scratching. This masking film must be removed immediately after installing the sheets. If left on, it becomes very difficult to remove.

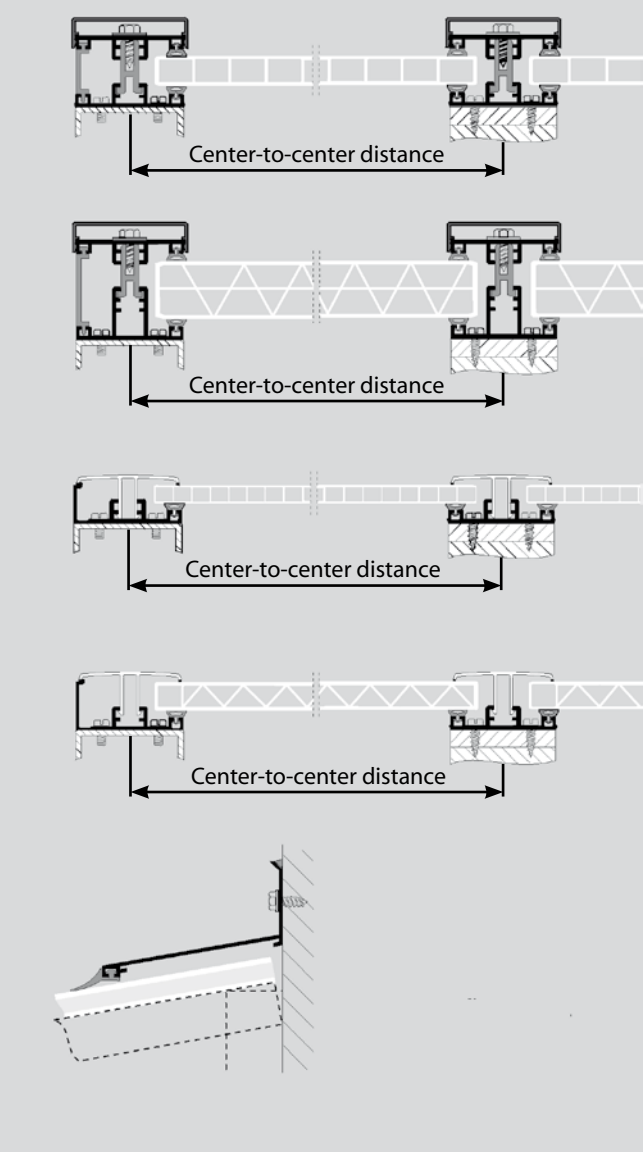


Cleaning:
Clear water or a solution of mild dishwashing liquid are suitable for cleaning the sheet surfaces. To avoid scratches, do not use scouring agents.



Examples of Installation

Supporting structure consisting of laminated timber beams or metal.
Center-to-center distance = sheet width + 15 to 30 mm, depending on glazing bars. Contact us for further information if required.
Max. service temperature without load = 70°C



HIGHLUX®
Naturally UV-Stable

Natural protection against yellowing and loss of light transmission.
As well as providing us with light and warmth, the sun also emits UV radiation. An increasing proportion of harmful UV radiation is reaching the earth due to the hole in the ozone layer.
HIGHLUX® is made up of extremely strong, UV-stable molecules throughout the material. The special NATURALLY UV-STABLE technology stabilizes HIGHLUX® from the inside out and protects the entire sheet, not just its surface. That means maximum protection against UV radiation, yellowing and loss of light transmission.

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