

Important notes on the handling of RAVATHERM XPS products in summer in hot weather

Especially on warmer days, there is a risk that XPS thermal insulation boards will deform due to high temperatures. This must be carefully considered during transport, storage, installation and design of the insulation boards.

Transport

On warm days, the insulation boards should be handled with special care. Hot pipes and equipment that are used close to the truck's platform can, due to their operation, cause the platform to overheat from the load compartment and damage any XPS thermal insulation boards in contact with it, especially during extended waiting periods. The thermal insulation stored in the load compartment prevents the heat from escaping to the plateau, the temperature of which can thus escape to a range above 75°C, which is critical for XPS, and in extreme cases can cause the thermal insulation boards to melt and deform.

When transporting in an open truck, the rules for outdoor storage must also be observed.

Outdoor storage

RAVATHERM XPS insulation boards can also be stored outdoors but should be protected from strong sunlight. The plates must not be exposed to other sources of ignition. If the discs are exposed to strong sunlight for a long time, their surface may become discoloured. To prevent deformation or aging of XPS boards when stored outdoors, packages should be protected from direct sunlight.

The thermal insulation in its original packaging should be protected from excessive sunlight with light layers (such as white cover foil).

Dark-colored cover materials (waterproofing, geotextiles, protective sheets) are not suitable for this.

Strong heating of dark blankets can lead to deformation of the thermal insulation.

Transparent films are also unsuitable: heat build-up under the film can lead to extreme temperatures and deformation of the thermal insulation boards. In addition, the surface of the discs may be damaged due to the effect of the foil condenser lens.

Around reflective surfaces (metal facades, glass surfaces, and the like), reflected sunlight can cause heat buildup and thus deformation. This must be taken into account when storing insulation boards.



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Installation

The most effective measure against deformation or other damage to the insulation is to permanently cover the XPS insulation boards immediately after installation.

This means a load against wind suction on an inverted roof. On the roof, it also provides the best protection against solar radiation and deformation.

The use of dark-colored geotextiles on a flat roof is not recommended because its strong heating can lead to deformation of the thermal insulation in a short time.

Around reflective surfaces (metal facades, glass surfaces, and the like), reflected sunlight can cause heat buildup and thus deformation. This must be taken into account when installing the insulation boards. In such places, the thermal insulation must be immediately covered (loaded) or otherwise protected from direct reflected light.

Ravago Building Solutions