

Energy saving of the future, minimising convection heat losses in the construction joint. Reducing of air permeability in construction joints to the value "0".

A new generation of hybrid joint sealing tapes and multifunctional tapes, with the highly effective combination of elastic PUR- foam and foil barrier membranes.

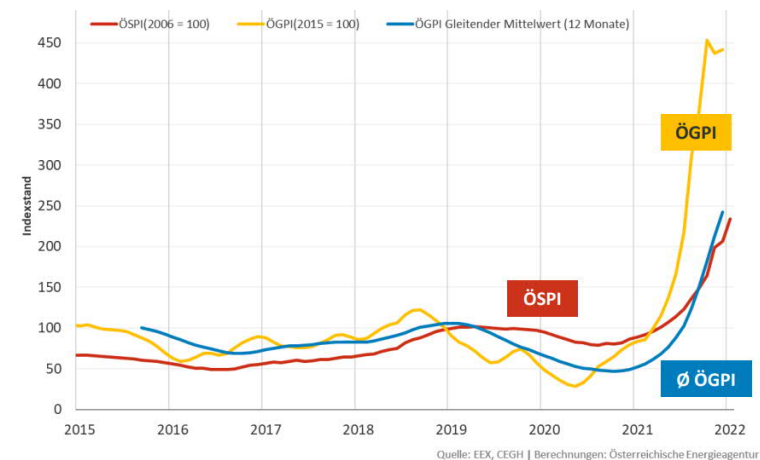


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High price for energy

- Gas shortage
- High energy prices
- High raw material costs
- High prices for production and operation of buildings

We are all called upon to save energy wherever and whenever possible in order to maintain the supply.



Quote by Franz Alt / journalist and author

"The toughest and most important battle of the 21st century will be fought without weapons. The tools of this fight are called: energy efficiency, energy saving and renewable energies." (Franz Alt)



High efficiency of tightness

The energy efficiency of industrial buildings in lightweight steel construction, is based on very good thermal insulation of the building envelope, to reduce transmission heat losses and efficient sealing of all the joints and that is hundreds to thousands of meters in the building, to reduce convection heat losses.



Technical regulation of gap tightness

§ 13 Tightness

(Extract from the German Building Energy Act)

A building shall be constructed in such a way that the heat-transferring enclosing surface, including the joints, is permanently airtight in accordance with the recognized rules of technology.



a - value $< 0.1 \text{ m}^3/[\text{h}\cdot\text{m}(\text{daPa})^n]$ is that low enough

a-value $< 0.1 \text{ m}^3/[\text{h}\cdot\text{m}(\text{daPa})^n]$

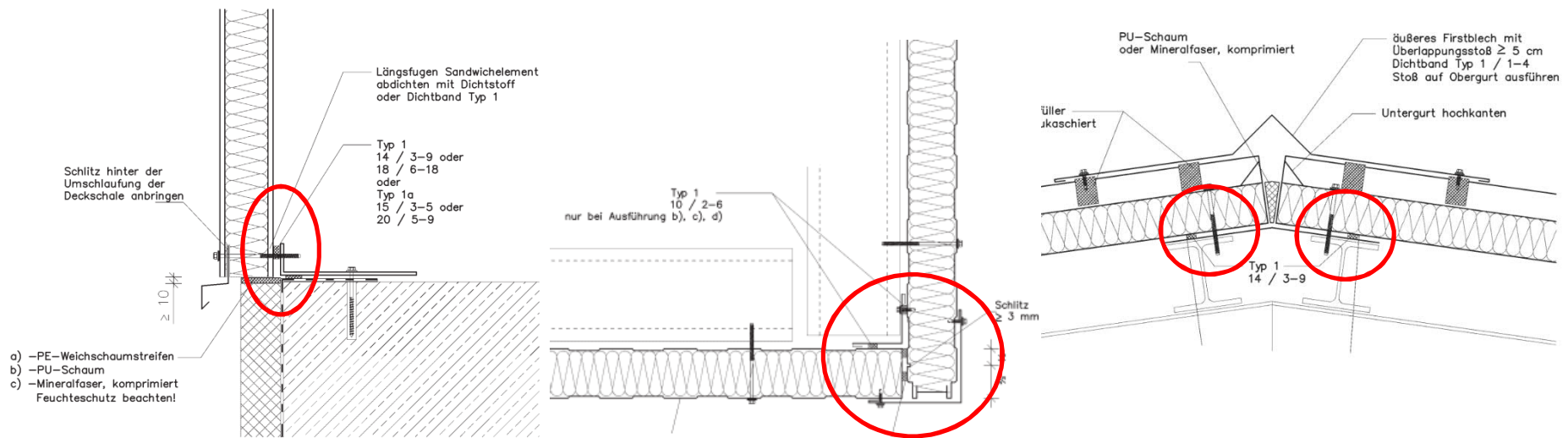
The prescribed minimum value for the airtightness of building connection joints can be significantly reduced.

Modern joint sealing tapes enable a joint permeability coefficient of nearly ≈ 0 .

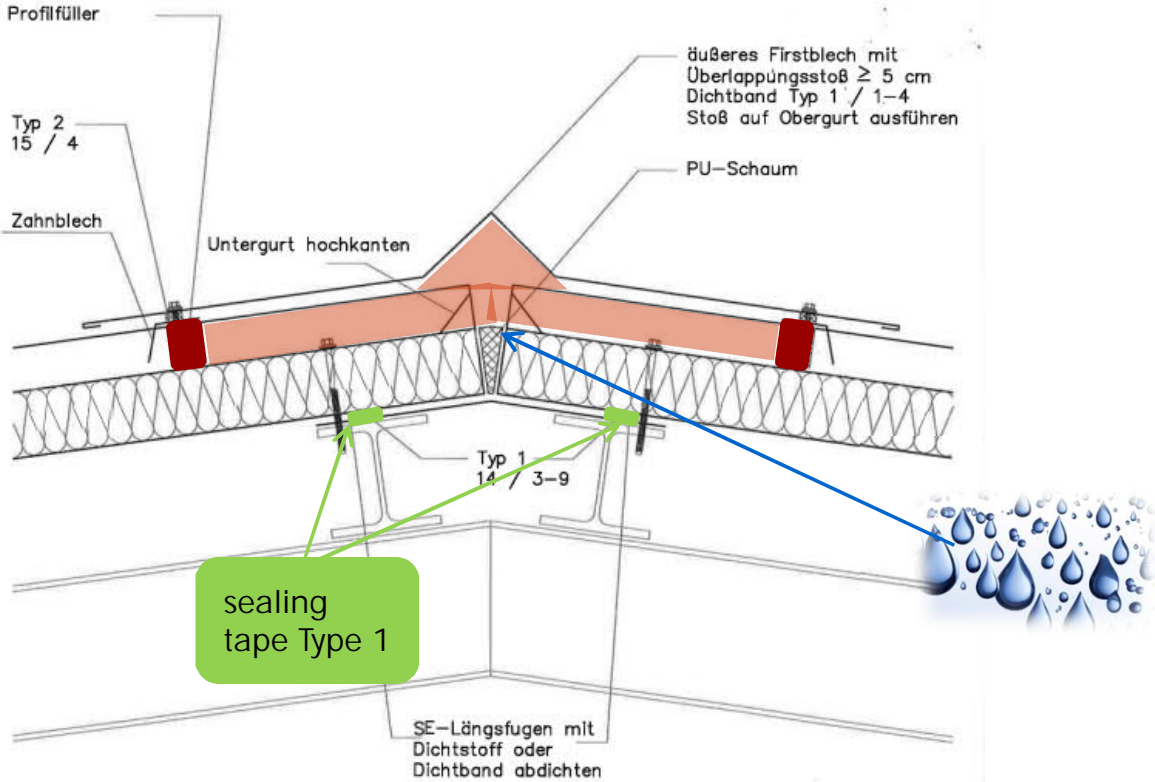
This saves a lot of energy and protects the environment and planet Earth.



Typical use of joint sealing tapes



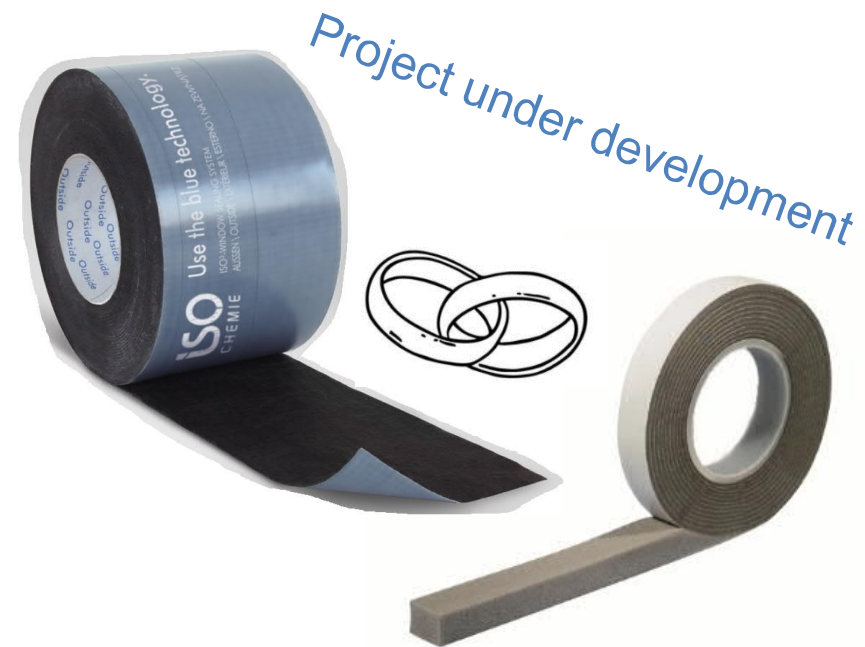
Risk of condensation



The wedding between membrane and flexible foam

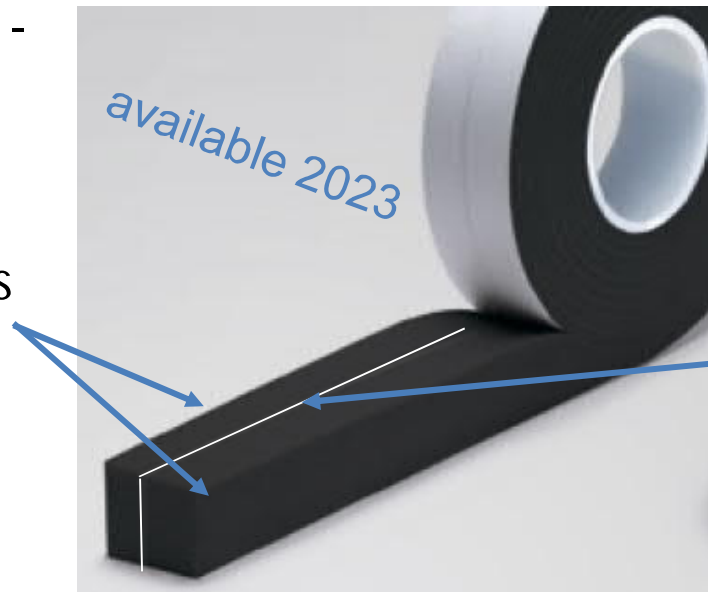
The combination between a membrane and a compressed sealing tape, brings a high-end tightness material.

The membrane is integrated inside the compressed sealing tape and rises up the air- and driving rain tightness of the tape.



Hybrid compressed PUR-sealing tapes

Foam package -
responsible for
flexibility and
pressure to the
sealing surfaces



Foil as Membrane
barrier, ensures air-
tightness and increases
sealing performance
against driving rain.
Creates an sd-value of
appr. 9,6 m.

The difference to conventional joint sealing tapes

Technical data´s

properties	normal sealing tape	ISO-BLOCO 600 Performance Edition
Air-tightness BG 1	$<1.0 \text{ m}^3/[\text{h}\cdot\text{m}(\text{daPa})^{2/3}]$	$\approx 0.0 \text{ m}^3/[\text{h}\cdot\text{m}(\text{daPa})^{2/3}]$
Air-tightness BG R	$<0.1 \text{ m}^3/[\text{h}\cdot\text{m}(\text{daPa})^{2/3}]$	$\approx 0.0 \text{ m}^3/[\text{h}\cdot\text{m}(\text{daPa})^{2/3}]$

As better the air-tightness, as better the rain tightness. That brings an advantage at both levels, inside and outside.

Project under development

The difference to conventional joint sealing tapes

Technical data´s

Stress group	Type 1 / 1A sealing tape in BGR stressgroup	ISO-BLOCO 600 Performance Edition
Air-tightness BG R	6 - 13 mm 11 - 20 mm	6 - 22 mm
Air-tightness BG R	11 - 20 mm no more available	15 - 36 mm

*Project under development
smaller dimensions are in development*

Only one tape for all typical gap sizes.

Hybride Multi functional tapes for 3-level sealing

Hybrid solutions are also available in the product portfolio of multifunctional joint sealing tapes. In the case of multifunctional tapes, several barrier membranes are implemented in the tape.

This also ensures a high sealing performance and large joint function area.



Can we afford this new technology

We are rich enough to afford climate protection - and we are too poor to do without climate protection".

(Sigmar Gabriel)



Thank you very much
for your attention!



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