

 **Schöck Isokorb®**

Double Insulation
The new
Schöck Isokorb® KXT



We have the answer to the increasing demands for improved thermal and sound insulation



Accept responsibility for the environment

The effects of climate change are becoming more obvious with time. The continued increase in global warming challenges all of us to accept responsibility and treat resources with care. Since around 40% of primary energy requirements today are for buildings, it is absolutely essential to reduce energy consumption in those buildings and thus reduce CO₂ emissions.



Reduce energy costs

As a result of the enormous increase in costs for gas and oil, utility bills for rented accommodation constitute practically a second rental payment. Improved thermal insulation reduces primary energy requirements, running costs are reduced and significant cost savings can be made.



Guarantee impact sound insulation

These days good sound insulation is a key factor in high-quality construction. As a result reducing impact sound transmission, between the balcony and the building, is becoming an increasingly important issue.



The new Schöck Isokorb® KXT with

30 % more thermal insulation*

50 % more impact sound insulation**

120 mm insulating element thickness

► As the inventor and innovator of thermal bridging solutions for cantilever structures, Schöck is continually redefining technical standards. This is why we have adapted the Schöck Isokorb® to the ever increasing demands for improved thermal and sound insulation. Effectively, our products already meet future standards, today.

Consequently, the new Schöck Isokorb® KXT for concrete-to-concrete connections, will continue to lead the way in contributing to improved energy saving and impact sound insulation requirements.



50% thicker insulation

The thickness of the Schöck Isokorb® KXT insulating element is 120 mm. This is a 50% increase in the thickness of the insulating element compared to the 80 mm Schöck Isokorb®.



Improved insulating material

The insulating material in the new Schöck Isokorb® KXT is made of Neopor®¹, a polystyrene material with a silver grey colour, caused by the addition of graphite. This results in a further reduction of thermal conductivity compared with conventional polystyrene ($\lambda = 0.032 \text{ W}/(\text{m}\cdot\text{K})$).



Higher-grade stainless steel

The tensile strength of the stainless steel used for the tension bars ($\lambda = 15 \text{ W}/(\text{m}\cdot\text{K})$) in the insulating element area has been improved. This allows the diameter of the rods to be reduced while still maintaining the load-bearing capacity. This in turn reduces the cross-section of heat conduction, further improving the thermal insulation performance of the Schöck Isokorb® KXT.

* As an average over all types in the "Technical Information Isokorb® XT", compared with the corresponding Isokorb types with a thickness of 80 mm with regard to equivalent R_{eq} .
** In comparison with the corresponding Schöck Isokorb types with a thickness of 80 mm and height of 180 mm with regard to $\Delta L_{n,v,w}$. Visit www.schoeck.de for further information.

XT = extra thermal break
extra impact sound protection

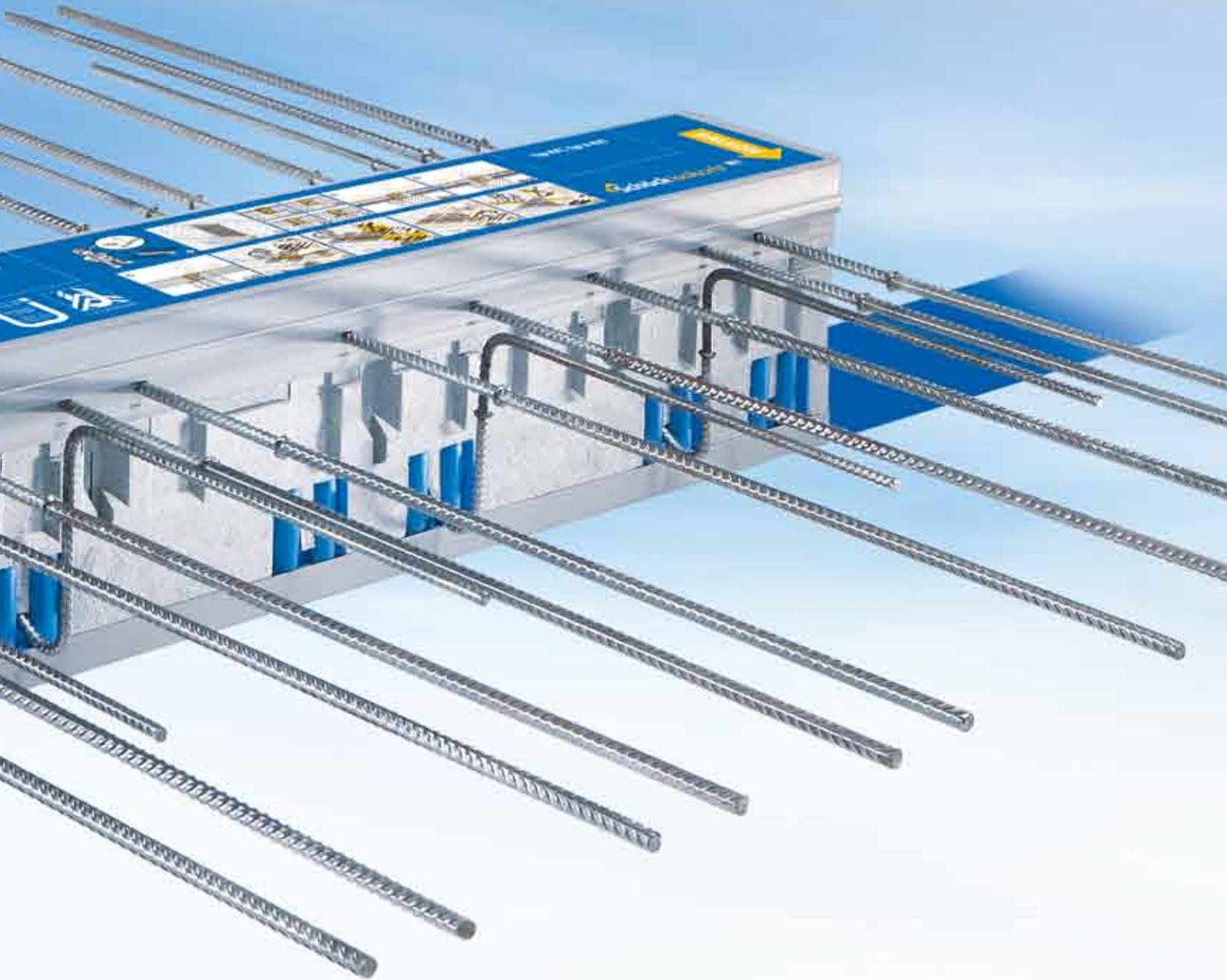


Optimised pressure modules

Schöck's tried-and-trusted HTE module, now optimised in terms of thermal insulation, is also used with the new Schöck Isokorb® KXT. The module is made of a steel fibre reinforced ultra high-performance concrete (UHPC), plus the additive Kronolith²⁾ (a titanium iron ore). Significant features of the module are its load-bearing capacity, certified long durability and safety. Also, it guarantees optimal thermal insulation due to its small cross-sectional area.

¹⁾ Neopor® is a registered brand name of BASF

²⁾ Kronolith is a registered trademark of KRONOS ecochem



Optimised shear force rods

The angle of the shear force rods within the insulating element is lower compared to those of the 80 mm thick Schöck Isokorb®, but maintains the same load-bearing capacity. This makes a major contribution to improving impact sound insulation.



Certified by the PassivHaus Institute

The best thermal insulation element on the market for cantilever balconies. Keeping you well on track when it comes to meeting increasingly demanding thermal insulation requirements. Now, even passive houses can be built with free cantilevered balconies: The balconies connected to passive houses using the new Schöck Isokorb® XT range, have been certified by the PassivHaus Institute in Darmstadt, Germany as a “Low thermal bridge construction”.



Good impact sound insulation

A 50% improvement in impact sound insulation** is achieved by the Schöck Isokorb® KXT. This means an immediate minimisation of the sound transmission from the balcony to adjacent living space.



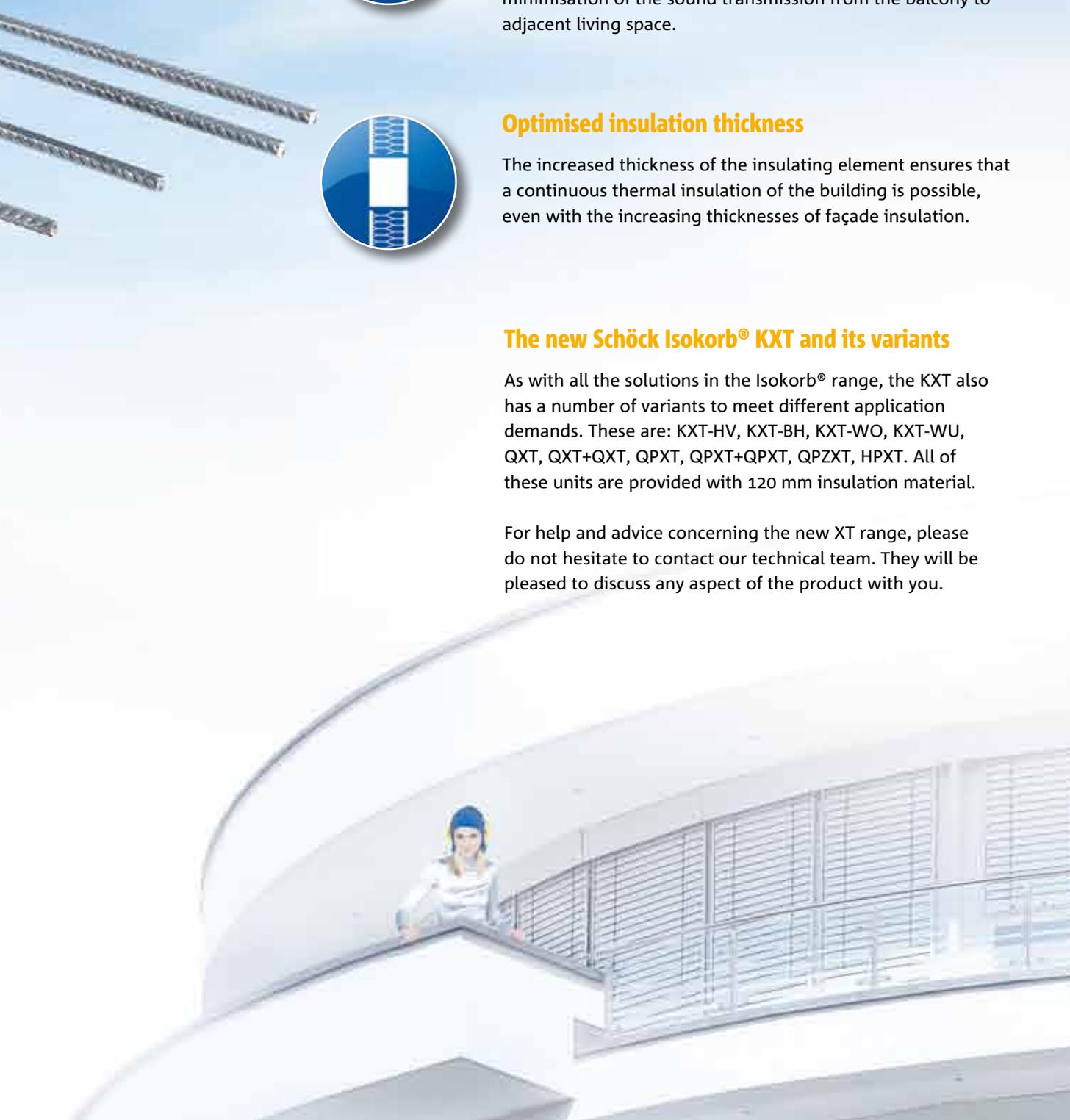
Optimised insulation thickness

The increased thickness of the insulating element ensures that a continuous thermal insulation of the building is possible, even with the increasing thicknesses of façade insulation.

The new Schöck Isokorb® KXT and its variants

As with all the solutions in the Isokorb® range, the KXT also has a number of variants to meet different application demands. These are: KXT-HV, KXT-BH, KXT-WO, KXT-WU, QXT, QXT+QXT, QPXT, QPXT+QPXT, QPZXT, HPXT. All of these units are provided with 120 mm insulation material.

For help and advice concerning the new XT range, please do not hesitate to contact our technical team. They will be pleased to discuss any aspect of the product with you.



HauCon Norge AS
Snarøyveien 67
Hangar 2
Koksa
1367 Snarøya
Tel: 67 11 56 90
Fax: 67 11 56 91
post@haucon.no

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