Press release

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fischer bolt anchor FAZ II

Steel anchor combines wood and concrete

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Corporate Communications

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Wood is a popular building material thanks to its carbon neutrality and material properties. On many construction sites, users are faced with the task of anchoring wood structures in concrete, which can be achieved easily and safely with the fischer bolt anchor FAZ II. High shear and tensile load-bearing capacities and variable anchorage depths in large parts of the range offer a wide range of applications.

Joist and beam anchorages are particularly fast and easy to create with the fischer bolt anchor FAZ II. The FAZ II HBS made of zinc-plated steel enables particularly flexible and simple installation. Its extra-large washer conforms to the DIN 1052 wood construction standard and improves the load transfer between bolt anchors and joists or beams. Various versions of the fischer bolt anchor, such as the FAZ II GS, allow applications combined with steel fixtures with slots or with tension anchors. The FAZ II can also be used at a low anchorage depth and requires little drilling. The assessment (ETA) has now significantly increased the shear and tensile load capacities of sizes M8 to M12 in cracked concrete, allowing fixing tasks to be completed with fewer anchoring points while maintaining the same level of safety. This results in lower costs and less effort required for applications such as installing wood constructions in concrete.

The new ETA furthermore allows a variable anchoring depth of the plugs in sizes M8 to M16. It can now be precisely finetuned according to the respective load requirement or the existing component thickness. This allows numerous fixing jobs in wood construction and many other trades to be implemented with shorter plugs, a smaller drilling depth and thinner concrete components, saving both time and money. Small edge and axial distances and the variable anchoring depth allow optimal fixings under maximum loads, even in challenging conditions. The ETA also regulates the same loads as hammer drilling for diamond set holes from size M8 onwards.

fischer also offers the market's first bolt anchor with a diameter of just 6 mm and an ETA option 1 for cracked concrete with its FAZ II M6. It can be used to attach fixture thicknesses of up to 20 mm. Its small diameter and short anchoring depth of just 40 mm save the user time, cost and effort while anchoring fixtures in concrete. Loads are therefore reliably transferred with little effort. With the FAZ II H, fischer also provides the world's first bolt anchor with a cup nut to have received an assessment (ETA). Its rounded head shape prevents injury, for example through the protruding thread, and improves the appearance of visible fixings for elements such as indoor wooden staircases.

Overall, the bolt anchor FAZ II offers advantages with its high load-bearing capacity in concrete and its suitability for numerous fixing jobs in various trades. The comprehensive assessment (ETA) permits secure fixings, even of unusual attachments. The additional ICC approval enables its simple application in buildings in the USA and countries in the Far East. Installations in water-filled drill holes can also be carried out without issue with the FAZ II. The FAZ II guarantees a secure hold for up to two hours in the event of fire.

The option of using pre-positioned, push-through and stand-off installation means that the user can opt for the most suitable method of installation for their respective applications. The cone bolt is pulled into the expansion clip by tightening the nut, expanding firmly against the wall of the drill hole. The anchor is then able to carry loads immediately.

Image captions:

Image 1
Higher shear and tensile load-bearing capacities and variable anchorage depths of the fischer FAZ II range increase the cost efficiency and level of flexibility of timber construction applications as well as applications in many other trades.

Image 2
Joist and beam anchorages and tension anchors are particularly flexible and easy to create with the FAZ II HBS. Its extra-large washer conforms to the DIN 1052 wood construction standard and improves the load transfer between bolt anchors and joists or beams.

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Images: fischer

The fischer Group of Companies

The fischer Group of Companies, headquartered in Waldachtal in Germany's northern Black Forest, generated sales of 988 million euro in 2021 with a worldwide staff of 5,400 employees. The family-owned company operates 50 subsidiaries in 38 countries and exports to more than 120 countries. It includes the five divisions: fischer fixing systems, fischer Automotive, fischertechnik, fischer Consulting and fischer Electronic Solutions.

fischer fixing systems is the technological market leader in key areas of fixing technology. fischer offers products that deliver technical perfection to a wide range of customers, from do-it-yourselfers to tradespeople to key account partners.

fischer Automotive manufactures high-quality parts for vehicle interiors. The company is highly competent in the plastics processing segment and is an important partner for the automotive industry. Its range of products includes air vents, cup holders, trays and multi-function components.

With its construction kits, fischertechnik is active in both the toymaking and the educational sector. fischertechnik is one of the last remaining toy makers to exclusively develop and produce in Germany.

fischer Consulting evolved from the competence developed in the company itself, which includes the fischer ProcessSystem with its central aim of permanent improvement for the ultimate benefit of the customer. fischer Consulting advises small and medium-sized businesses, government agencies and major companies on their path towards lean and efficient processes.

fischer Electronic Solutions develops and manufactures electronic solutions including product and system developments based on the latest technology as well as custom production orders processed in the company's own production facilities. As an experienced provider of development and production services for custom systems such as multi-touch solutions made of glass and the corresponding controller units, fischer Electronic Solutions forms the perfect link between the customer and the final product.

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