Press release

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Installation tips for attached carports

Finding the right connection - attaching a carport to a house

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Cars parked on the street are defenceless against the elements. For drivers, this often means scraping frozen windscreens in ice-cold temperatures during winter or getting into a vehicle that is too hot in summer. A carport provides the remedy, as a covered or leafy parking spot protects cars against sun, rain and snow and constitutes an affordable alternative to garages. The right fastening is crucial for a permanent, secure hold in the foundation and, in the case of attached carports, to the wall of the house.

Carports protect vehicles against adverse weather such as precipitation and excess sun exposure. They also offer vehicles reliable protection against bird droppings, which damages car paint due to containing pancreatin. Unlike when drivers park on the street, car windows no longer have to be cleared of frost and snow in winter. Pleasant temperatures in the vehicle's interior are provided in summer without having to run the air conditioning beforehand.

Carports are also an affordable alternative to garages and are well suited to being carried out as a DIY project. These parking spaces are often open at the sides. Alternatively, climbing trellises or timber walls can be installed along the supports. Carports can also be covered or designed as an open, green

and leafy pergola. A natural grown “roof” of this kind also offers some protection against the elements to a degree while skilfully blending into the surroundings of the garden. Another option is an attached carport, which borders the house and is connected to the external wall.

Before do-it-yourselfers make a start on the construction, they must first clarify whether an official building permit is required. Regulations may differ depending on the federal state, city or community. Builders can obtain further information from their local building authority. The size, design and distance to the property boundary are of key importance. The carport’s dimensions depend on the existing space as well as the vehicles you intend to place underneath it, such as one or two cars, bicycles or even a campervan. There are many additional options such as installing a rack for storage or adding on a shed. You can get ready-made kits made of timber beams, steel or aluminium to build a carport.

Supporting structures made of wood are particularly easy to configure individually. In order to build the basic construction, users cement the foundation before anchoring the supports in it. This usually tends to be an isolated footing. U or H type post support brackets are inserted into this foundation and screwed together with the supports above ground. The fixing specialist fischer offers stainless steel post screws that are suitable for this specific application. When it comes to attached carports, fastening two to three supports in the ground is sufficient, as the other side is connected directly to the wall of the house, providing advantages such as saving a great deal of time and costs. A crossbeam can be attached as a trimmer beam to the existing wall. The fastening must be coordinated with the existing load-bearing base, the insulating layer that potentially requires bridging as well as the loads to be absorbed. In this

case, getting advice from experts such as the Application Engineers at the fischer Group of Companies is essential. Heavy-duty fixings tend to be suitable for anchoring beams to the wall of the house. Examples include the fischer bolt anchor FAZ II in concrete and the fischer high-performance mortar FIS V Plus with their suitable system components for any conventional building material. If the wall features an external thermal insulation composite system which the fastening will be attached to, then stand-off installation systems that bridge the insulation and are anchored in the support wall must be selected. fischer offers the TherMax 12 and 16 for this purpose. Push-through anchor sleeves such as fischer's FIS H22x130/200 K bridge the distance between the external leaf and the inner supporting leaf in double-leaf masonry.

The steel anchors and anchor rods of injection systems or stand-off installation systems must be made of stainless steel (R or A4) variants. Upon inserting the fischer TherMax, the external thermal insulation composite system must be carefully sealed with the fischer multi adhesive and sealant KD, which can be painted over. The purlins (horizontal beams) of the carport roof are then fastened to the wall with the installed trimmer beam. The roof is additionally supported on the other sides, in which case additional beams are connected with the supports. The fischer Power-Fast and fischer Power-Full screws were made for wood on wood connections such as these. An optional roof cover can subsequently be installed on the purlins. Upon completion, carports offer drivers permanent benefits.

Image captions:

Image 1
Raising the roof: Carports protect vehicles against adverse weather and offer drivers permanent benefits.
Image: Shutterstock/Palatinate Stock

Image 2
The extension and house become one: Attaching a carport permanently and safely to an external wall requires the right combination of fastenings, construction materials and loads.
Image: udo72 / 123rf

Image 3- 5
fischer screws adapted to the construction (image 3) are suitable for the carport's wood on wood connections. The attached carport can be anchored to the wall with heavy-duty fixings (image 4). Stainless steel post screws (image 5) are ideal for fastening the supports to the post support brackets.
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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