

HMCS Heavy Duty Corbel Fixing Systems - Introduction

Load Bearing Anchors

Fixing systems for the installation of heavy corbel stone walls are available in a variety of types and size ranges as shown below. The actual system proposal will be made according to the technical requirements of the project. The use of these fixing systems is for high load stone cladding walls, coping and cornice stones that are made with thicker panels that can be as much as 120 mm. Load bearing and restraint anchors are used to install the slabs on to different wall backings using a variety of attachment methods like cast in channels or anchor bolts.

Application Examples



Load Bearing Support Brackets

HMS-UP



HMCS-SB/P



HMCS-DB



HAMF



Restraint Brackets

HA-RST



HA-RH



HA-RST/K B



HAZ21



Periscope Brackets

HPC1



HPC2



HPC3



HPC4

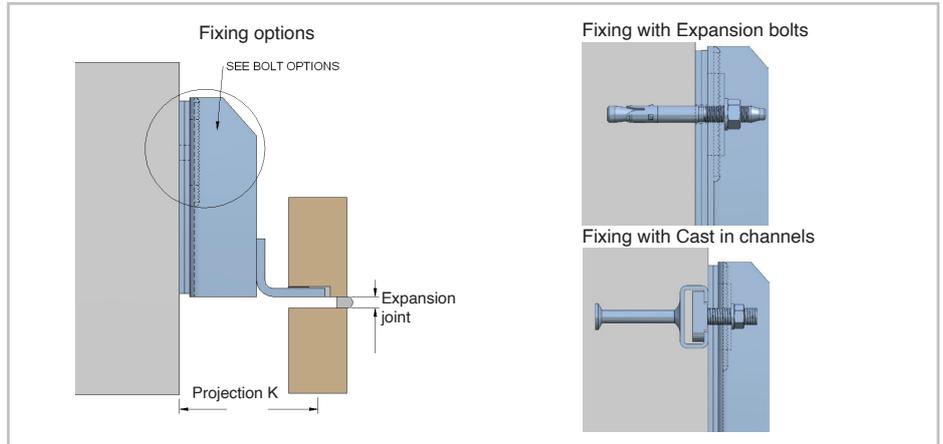


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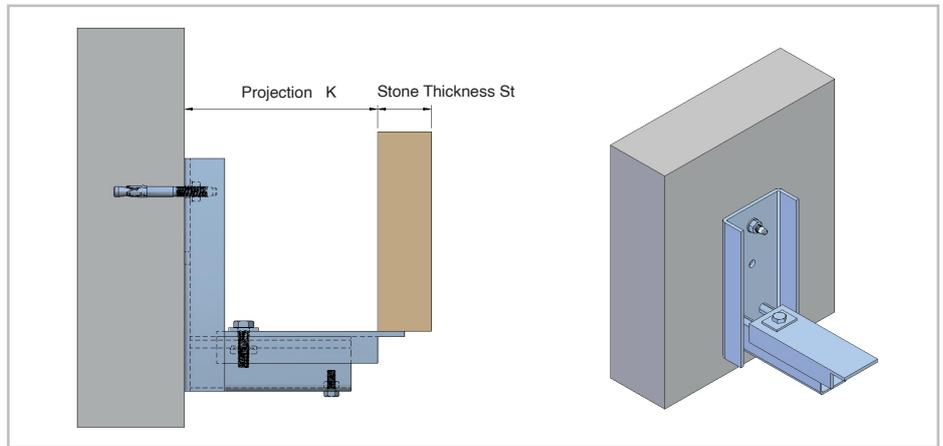
Heavy Duty brackets used for load bearing are fixed on to load bearing concrete walls. The two main methods that are usually used for attachments are either by anchor bolts or anchor channels.

Both anchor channels and anchors bolts specified according to the load requirements of the project and must be structurally verified according to the loads concerned on the project.



Heavy Duty brackets have limited adjustability to take the irregularities of the walls. An accepted method is the use of shims to adjust the projection sized by up to 10 mm.

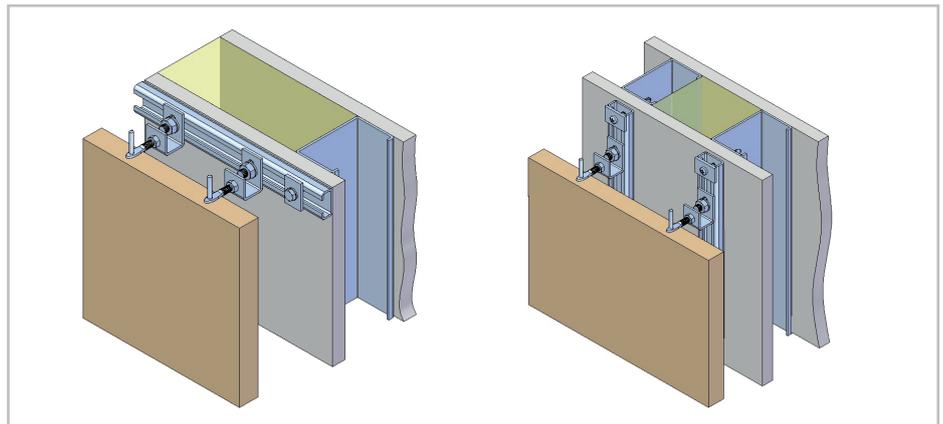
Greater adjustability can be achieved by special design as illustrated on the diagram on the right. An adjustable plate can be adapted to adjust in and out the distance of the projection size.



Restraining Brackets

There are many systems to be used for restraining the stone slabs that are supported on a corbel system. Channel systems can be used as they are suitable to be fixed on commonly used steel sections.

Restraint anchors or wall ties can be easily fixed on to the channel at desired position which enables greater flexibility and easiness in installing the slabs.



Restraint brackets are used for restraining stone slabs directly on to wall backings. There are various types of brackets that can be used for quick and easy installation.

Depending on the cavity and the existence of insulation on the wall, different type of restraint brackets are preferred for installation.

