

MOTHERSON EXHIBIT 1011

Bracket (architecture)

A **bracket** is an architectural element: a structural or decorative member. It can be made of wood, stone, plaster, metal, or other media. It projects from a wall, usually to carry weight and sometimes to "...strengthen an angle".^{[1][2]} A corbel or console are types of brackets.^[3]

In mechanical engineering a bracket is any intermediate component for fixing one part to another, usually larger, part. What makes a bracket a bracket is that it is intermediate between the two and fixes the one to the other. Brackets vary widely in shape, but a prototypical bracket is the L-shaped metal piece that attaches a shelf (the smaller component) to a wall (the larger component): its vertical arm is fixed to one (usually large) element, and its horizontal arm protrudes outwards and holds another (usually small) element. This shelf bracket is effectively the same as the architectural bracket: a vertical arm mounted on the wall, and a horizontal arm projecting outwards for another element to be attached on top of it or below it. To enable the outstretched arm to support a greater weight, a bracket will often have a third arm running diagonally between the horizontal and vertical arms, or the bracket may be a solid triangle. By extension almost any object that performs this function of attaching one part to another (usually larger) component is also called a bracket, even though it may not be obviously L-shaped. Common examples that are often not really L-shaped at all but attach a smaller component to a larger and are still called brackets are the components that attach a bicycle lamp to a bicycle, and the rings that attach pipes to walls.



A classically detailed bracket at the chapel of Greenwich Hospital, London



Bracket for a shelf or hanging items

Contents

Uses

See also

References

External links

Uses

Brackets can support many architectural items, including a wall, balcony, parapets, eaves, the spring of an arch, beams, pergola roof, window box, or a shelf. The term is also used to describe a shelf designed to hold a statue.

In adjustable shelving systems, the bracket may be in two parts, with the load-bearing horizontal support fitting into a wall-mounted slotted vertical metal strip.

Brackets also are an element in the systems used to mount modern facade cladding systems onto the outside of contemporary buildings, as well as interior panels.

Architectural sculptures

Brackets are often in the form of architectural sculptures with reliefs of objects and scrolls. Depending on their material, decorated ones can be carved, cast, or molded. They can be of cast stone or resin-foam materials with faux finishes for use on new buildings in historic revival styles of architecture.

Some brackets and corbels are only ornamental, and serve no actual supporting purpose.^{[4][5]}

See also

- Dougong, wooden brackets commonly found in East Asian architecture

References

1. "Bracket | Definition of Bracket by Merriam-Webster" (<http://www.merriam-webster.com/dictionary/bracket>). *Merriam-Webster.com*. Retrieved 13 July 2017.
2. "Brass,Bronze,Iron Hand rail Brackets" (<https://web.archive.org/web/20050223153935/http://www.mascotmetal.com/brass-brackets.html>). Archived from the original (<http://www.mascotmetal.com/brass-brackets.html>) on 23 February 2005. Retrieved 19 June 2008.
3. *Oxford English Dictionary* Second Edition on CD-ROM (v. 4.0). Oxford University Press; 2009
4. "bracket" (<http://www.britannica.com/eb/article-9016097/bracket>). britannica.com. Retrieved 10 April 2007.
5. Poppeliers, John C. (1983). *What Style Is It?* (https://archive.org/details/whatstyleisitgui00popp_0/page/106). New York: John Wiley & Sons. p. 106 (https://archive.org/details/whatstyleisitgui00popp_0/page/106). ISBN 0-471-14434-7.

External links

-  Media related to Brackets (architecture) at Wikimedia Commons

Retrieved from "[https://en.wikipedia.org/w/index.php?title=Bracket_\(architecture\)&oldid=936048227](https://en.wikipedia.org/w/index.php?title=Bracket_(architecture)&oldid=936048227)"

This page was last edited on 16 January 2020, at 11:22 (UTC).

Text is available under the Creative Commons Attribution-ShareAlike License; additional terms may apply. By using this site, you agree to the [Terms of Use](#) and [Privacy Policy](#). Wikipedia® is a registered trademark of the [Wikimedia Foundation, Inc.](#), a non-profit organization.



Brackets are used in traditional timber framing, including the support of a jettied floor which can be carved. Magdalene Street, Cambridge, England. Sixteenth century