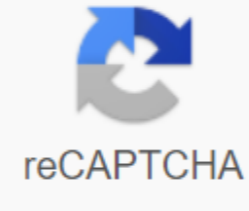




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The English bond is considered the strongest and most widely used brick link in construction work. It consists of an alternative course of headers and stretchers. In this arrangement, the vertical joints in the header and stretcher courses come on top of each other. To break the vertical joints in the nearest consecutive queen courses must be placed after the first head in each header course. FLEMISH BOND: In this brick link, each course consists of alternative headers and stretchers. Each header is supported above the stretchers below. To break the vertical joints in successive trains, queen closures are placed in alternative courses next to the queen header. Bats are essentially needed for walls with an odd number of half-bricks. The Flemish obligation gives a better appearance than the English obligation. Flemish bonds can be subdivided into two different categories. 1. Single Flemish bond and 2. Double Flemish link. THE difference between the English and the Flemish bond is that the English bond is much stronger than the Flemish bond for thicker walls than the 11/2 brick. The Flemish link shows a more attractive and pleasant appearance of masonry work. The Flemish link is economical because it uses broken brick bats, although it requires a little extra mortar for extra joints. Uses of the Flemish obligation is a bit difficult as the English link. Flemish bonding requires more skilled labour and supervision. This article needs additional quotes for verification. Please help improve this article by adding quotes to reliable sources. Non-source materials can be challenged and removed. Find sources: Brickwork - news Newspapers Books scholar JSTOR (March 2020) (Learn how and when to delete this model message) Masonry produced by a mason, using bricks and mortar Decorative Tudor brick chimneys, Hampton Court Palace, United Kingdom One of the buildings of the University of Jyv-skyl, Jyv-skyl (Finland) Court 2, Polychromatic Yemen polychromatic and bricks indented in a mid-Victorian terrace in west London Brickwork is masonry produced by a brickworks, using brickworks and mortar. Typically, rows of bricks called courtyards[1][2] are placed on top of each other to build a structure such as a brick wall. Bricks can be differentiated from blocks by size. By in the UK, a brick is defined as a unit with dimensions less than 337.5x225x112.5mm and a block is defined as a unit with one or more dimensions greater than the largest brick possible. Brick is a popular way to build buildings, and examples of bricks can be found throughout history as far away as the Bronze Age. The brick faces from the ziggurat of the ancient Dur-Kurigalzu in Iraq date from about 1400 BC. BC, and the brick buildings of the ancient Mohenjo-daro in Pakistan were built around 2600 BC. Much older examples of brick bricks with dried bricks (but not cooked) can be found in places as old as Jericho in Judea, 'attal Huyok in Anatolia, and Mehrgarh in Pakistan. These structures have survived from the Stone Age to the present day. Coordinating dimensions of a brick in a wall Working dimensions of a brick in a wall Brick dimensions are expressed in construction or technical documents in two ways as coordination dimensions and work dimensions. The coordination dimensions are the actual physical dimensions of the brick with the mortar required on a header face, a stretcher face and a bed. The work dimensions are the size of a brick made. It is also called the nominal size of a brick. The size of the brick may be slightly different due to shrinkage or distortion due to cooking, etc. An example of a coordination measure commonly used for bricks in the United Kingdom is:[4][5][6] Bricks 215 mm in size × 102.5 mm × 65 mm; Mortar beds and perpend of a uniform of 10 mm. In this case, the coordination measure works because the length of a single brick (215 mm) is equal to the total width of a brick (102.5 mm) plus a perpend (10 mm) plus the width of a second brick (102.5 mm). There are many other brick sizes around the world, and many of them use this same principle of coordination. Terminology Faces of bricks As the most common bricks are rectangular prisms, six surfaces are named as follows: Upper and lower surfaces are called End Beds or narrow surfaces are called headers or headers Or headers The sides or wider surfaces are called stretchers or stretcher tracks[7] Mortar Terminology-showing perpend and bed. The mortar placed between the bricks is also given distinct names regarding their position. Mortar placed horizontally below or above a brick is called a bed, and the mortar placed vertically between the bricks is called a perpend. Solid Brick Frog Brick Simple Brick with Two Frogs Cell Brick Perforated Brick A brick made with straight dimensions is called solid brick. Bricks can have a depression on both beds or on a single bed. The depression is called a frog, and the bricks are known as frogged bricks. Frogs can be deep or shallow, but should never exceed 20% of the total brick volume. Cell bricks have depressions exceeding 20% of the volume of brick. The perforated bricks have holes through the brick from bed to bed, cutting it all the way. Most of the building standards and good practices recommend that the volume of holes should not exceed 20% of the total volume of the brick. [8] Brick parts include bricks, beds and perpend. The bed is the mortar on which a brick is laid. [9] A perpend is a vertical joint between two bricks and is usually—but not always—filled with mortar. [10] A face brick is a better quality brick, designed to be used in visible exterior surfaces in the face-work, as opposed to a fill brick internal parts of the wall, or where the surface should be covered with stucco or a similar coating. Orientation Six positions A brick is classified according to how it is laid and how the exposed face is oriented in relation to the face of the finished wall. Stretcher or stretching brick A flat brick with its long, narrow side exposed. [11] Header or head brick A flat-laid brick with its exposed width. [11] Soldier A brick laid vertically with its long narrow side exposed. [12] Sailor A brick laid vertically with the wide face of the brick exposed. [13] Rowlock A brick laid on the long narrow side with the short end of the brick exposed. [14] Shiner or line stretcher A brick laid on the long narrow side with the wide face of the exposed brick. [15] Cutting The practice of laying real-life bricks that are not cut as much as possible gives brick its maximum possible strength. In the diagrams below, these uncut full-size bricks are coloured as follows: Stretcher header From time to time, although a brick must be cut to fit a given space, or to be the right shape to fulfill a particular purpose such as generating a shift—called a turn—at the beginning of a course. [16] In some cases, these special shapes or sizes are manufactured. In the diagrams below, some of the cuts most commonly used to generate a turn are colored as follows: The three-quarter bat, which stretches a brick cut three-quarters of its length, and is laid flat with its long, narrow side exposed. Three-quarters bat, head A brick cut three-quarters of its length, and laid flat with its short exposed side. Half-bat A brick cut in half along its entire length, and laid flat. Nearest Queen A brick cut in half at the bottom of its width, and laid with its smallest face exposed and standing vertically. A closer queen is often used to create a tower. [17] Less frequently used cuts are all colored as follows: Bat Quarter A brick cut to a quarter of its length. Three-quarters queen closer A nearest queen cut three-quarters of its length. King closer A brick with a cut corner, leaving a head face half its standard width. [18] Liaison An almost universal rule in masonry is that perpend should not be contiguous in all courses. [19] Walls, running linearly and extending upwards, may be of varying depth or thickness. Typically, the bricks are also laid running linearly and extending upwards, forming wythes or leaves. It is as important as with the perpend to bind these leaves together. Historically, dominant to consolidate the leaves together was to lay bricks through them, rather than run linearly. [clarification needed] The brick observing either of these two conventions is described as being placed in one or the other bond. [20] [21] Thickness (and leaves) A sheet is as thick as the width of a brick, but a wall is said to be a thick if it is as wide as the length of a brick. Therefore, a single-sheet wall is half a thickness of brick; a wall with the simplest cross-cutting masonry link possible is said to be a thick brick, and so on. [22] The thickness specified for a wall is determined by factors such as moisture sealing considerations, whether or not the wall has a cavity, load requirements, expenses and the time when the architect was working or working. [23] [24] The wall thickness specification has proven to be considerably diverse, and while some non-load-carrying brick walls may be as little as half a thick brick, let alone when shiners are laid stretcher link in partition walls, other brick walls are much thicker. The Monadnock Building in Chicago, for example, is a very large masonry building, and has brick walls nearly two meters thick at the base. [25] The majority of brick walls are however usually between one and three bricks thick. At these smaller wall thicknesses, distinct patterns have emerged allowing a structurally sound arrangement of the internal bricks to each specified specific thickness of the wall. Walls and ties The construction of the cave was the largest in the city of Lassa, which was the largest in the city of Lasse, in the north-east, where people were killed. A cavity wall consists of two completely discreet walls, separated by an air hole, which serves as both a barrier to humidity and heat. [26] [27] Typically the main loads taken by the foundations are carried there by the inner sheet, and the main functions of the outer sheet are to protect all weather conditions, and provide an appropriate aesthetic finish. Although there is no masonry connection between the leaves, their cross-sectional rigidity has yet to be guaranteed. [28] The device used to satisfy this need is the regular insertion of wall ties into the mortar beds of the cavity wall. [29] [30] Bonds carrying Mixed header courses and stretcher bonds Flemish bondsMonk bondSussex link Flemish bond Brickwork in Flemish Bond This link has a stretcher between the heads, with headers centered on stretchers in the courses below. [31] When a course begins with a stretcher, the course will normally end with a stretcher at the other end. The next class starts with a what header. For the second brick of the course, a queen approaches, generating the turn of the link. The third brick is a stretcher, and is, due to the turn, centered above the header below. This second course resumes its twin stretcher and head run, until the final pair is reached, after which a second and last closest queen is inserted as the penultimate brick, reflecting the arrangement at the beginning of the course, and duly closing the bond. Some examples of Flemish binding incorporate stretchers of one colour and headers of another. This effect is a product to treat the header face of the head bricks while the bricks are baked as part of the manufacturing process. Some header faces are exposed to wood smoke, generating a grey-blue color, while others simply vitrified until they reach a deeper blue color. Some headers have an icy face, caused by the use of salt in cooking. Sometimes staffordshire blue bricks are used for head bricks. [32] [33] Brickwork which appears as a Flemish link from both the front and the rear is double Flemish link, so called because of the front and rear duplication of the model. If the wall is arranged in such a way that the bricks at the back do not have this pattern, then masonry is said to be a single Flemish link. [34] Flemish bonding brick with a thickness of a brick is the repetitive pattern of a stretcher placed immediately at the back of the face stretcher, and then along the course, a

