

Civil Engineering Materials | (2nd Edition)

Problem

Name three types of bond.

Step-by-step solution

Step 1 of 7

Bonds

Bonding is a special type of arrangements of bricks and mortars in different directions and in different styles. During bonding, one should have in mind to avoids or minimize the vertical joints in any part of the brickwork.

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Step 2 of 7

Three types of Bonds

1. Stretcher Bond

It is type of bond in which the bricks are laid along with their length showing the long face on both side of the wall or in other words we can say when every brick showing a stretcher in the direction of wall.

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Step 3 of 7

2. Header Bond

It is a type of bond in which the bricks are arranged crosswise. In other words, when all the bricks lay toward the face of the wall and they are laid with their ends. This kind of arrangements is used for the better load distribution.

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Step 4 of 7

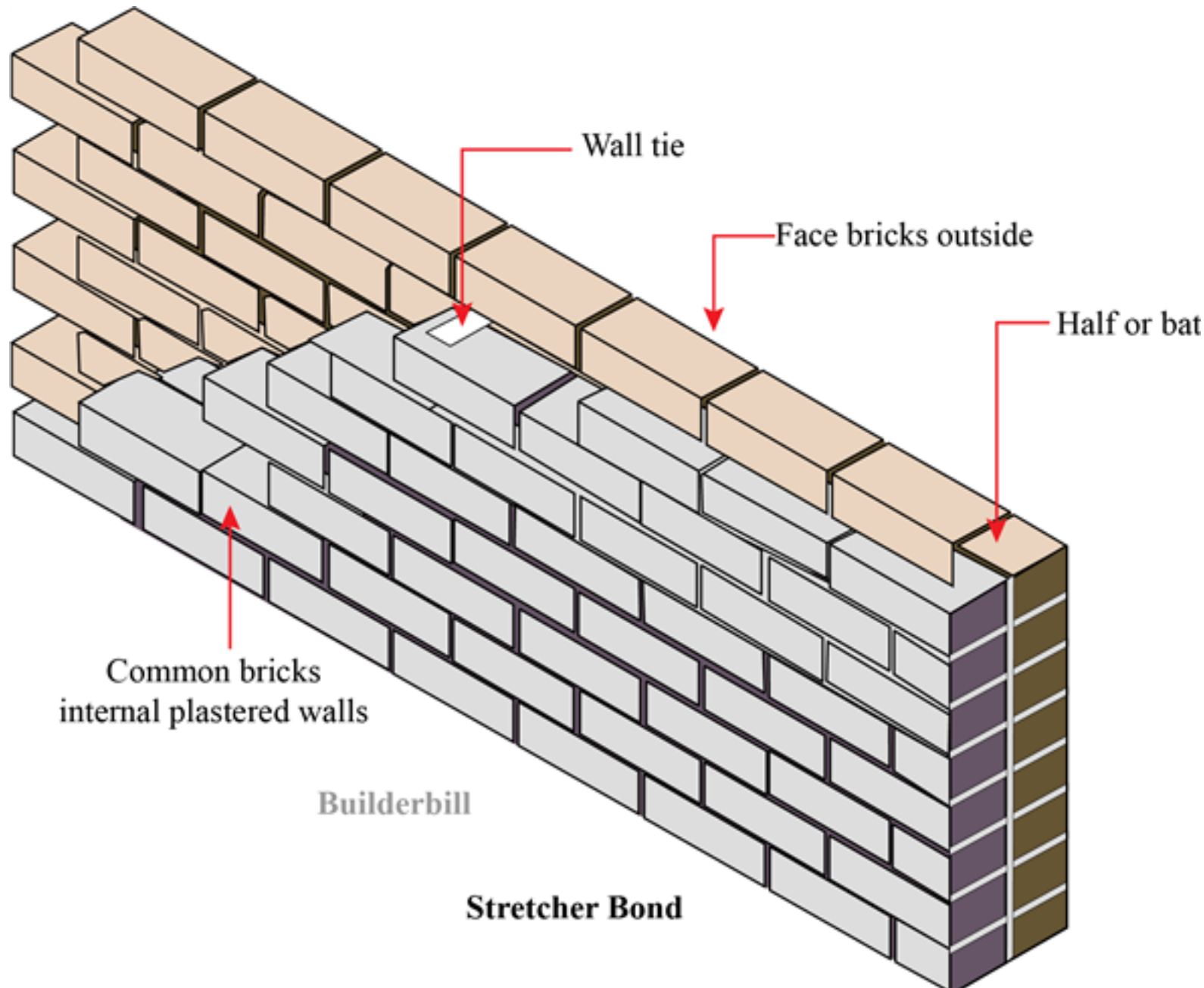
3. English Bond

It is simply a combination of header and stretcher bond. In this type of bonding, we generally laid alternative layer of header and stretcher. We believe that this bond is the strongest bond among other bonds because in the vertical section there is absence of aligned joints but on the other side it is more difficult and expensive as compare with other bonds.

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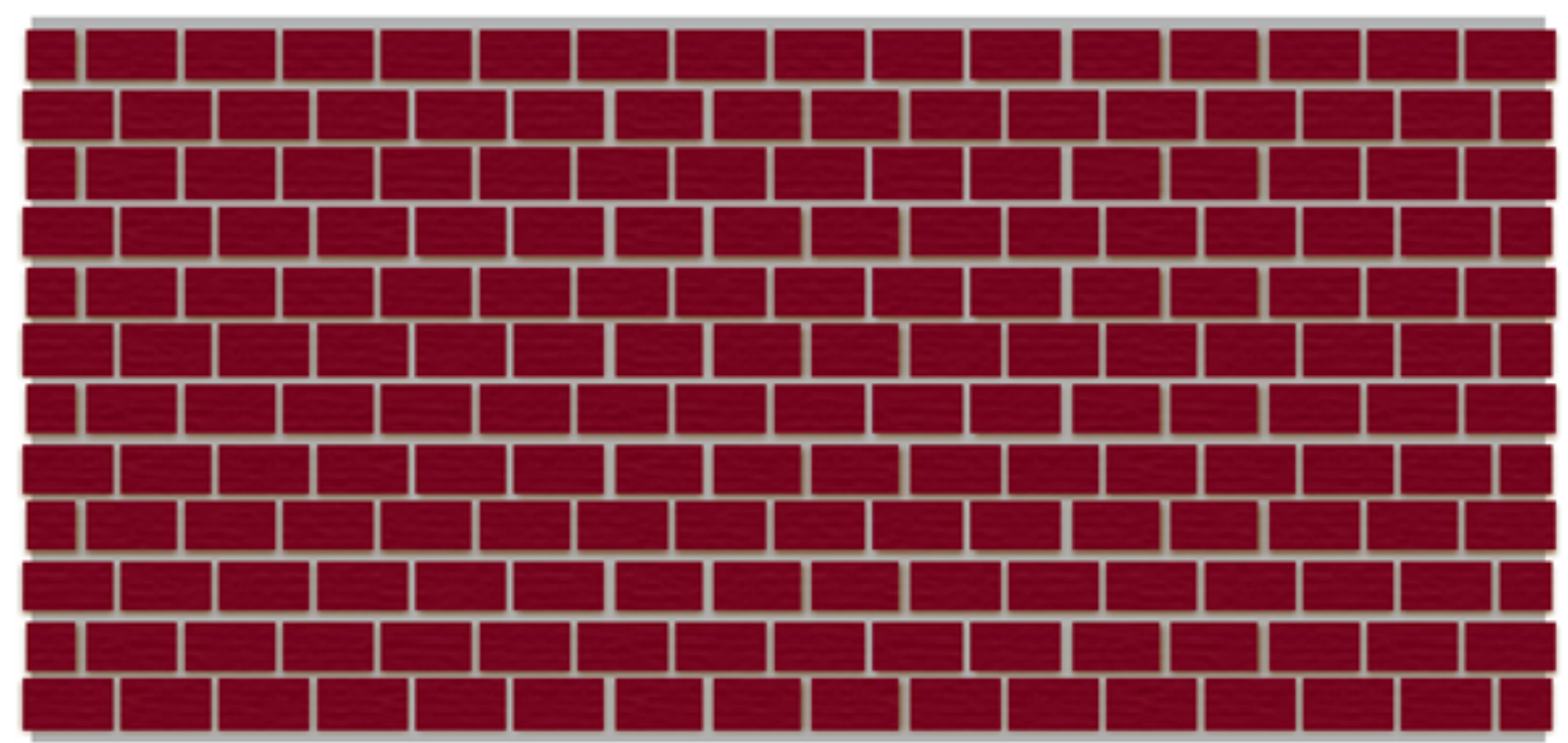
Step 5 of 7

The stretcher bond, header bond, and English bond are shown below.



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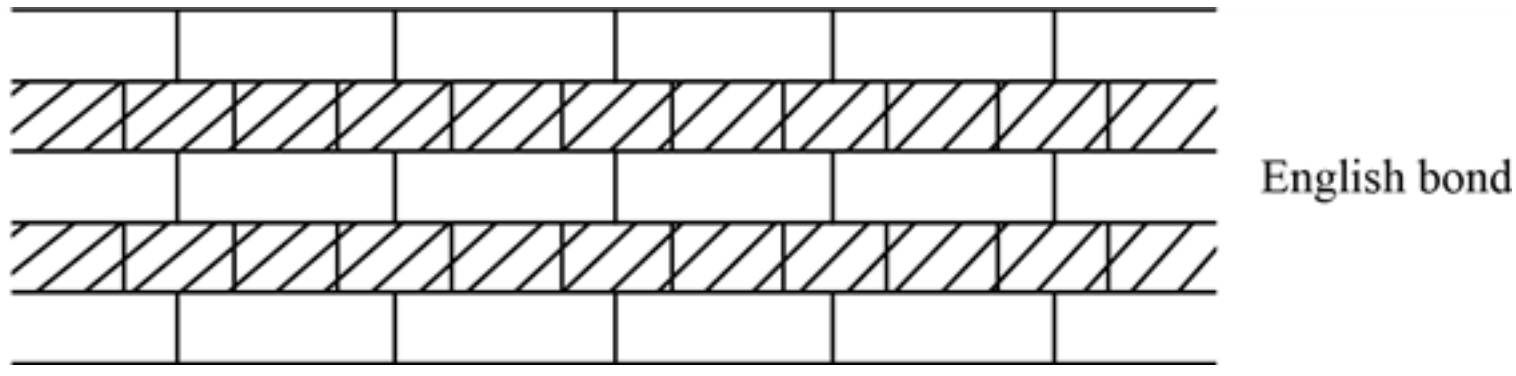
Step 6 of 7



Header Bond

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Step 7 of 7



English bond

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Chapter 1, Problem 5P

Name three important physical properties of materials.

[See solution](#)

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