Identification of Bonds at MIST

Assignment No.: 04.02

Assignment

Identification of brick bonds at MIST campus area.

Overview

Brick bonds are the patterns or arrangements in which bricks are laid to construct walls or structures. They affect the strength, stability, and aesthetics of the wall. The types of brick bonds found at MIST campus area are given below.

Stretcher bond

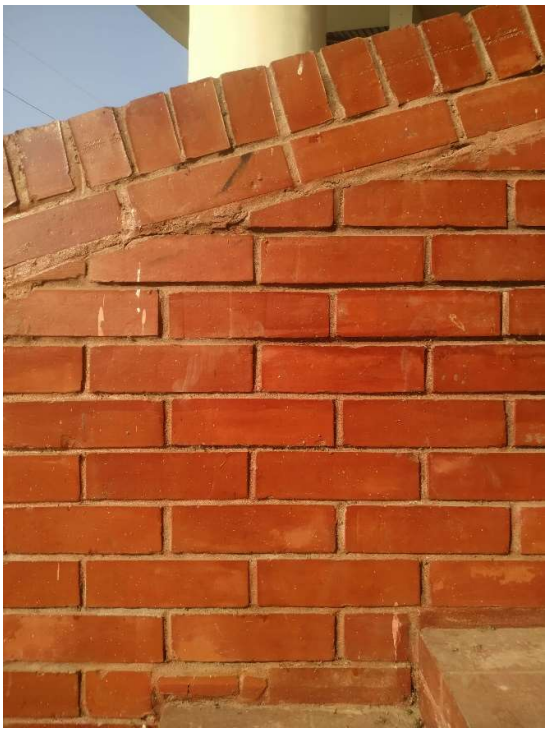


Figure 1: Stair railing showing stretcher bond at bottom while soldier course at the top



Figure 2: Brick columns at Shahid Rakibul Open Stage

In stretcher bonds, bricks are laid with their longer side (stretcher) visible in the wall's face. They are suitable for non-load bearing walls as they don’t provide enough strength.

English bond



Figure 3: MIST Architecture building showing English bond



Figure 4: The bottom layers show English bond while top layer is in soldier course

English bond alters between stretcher and header by each row. They are suitable for load-bearing walls, being one of the strongest bonds.

Stack bond



Figure 5: Stack bond in front of MIST old library

In stack bonds, bricks are stacked directly on top of one another without overlapping. They are used for decorative purposes as they are weak due to lack of interlocking.

Herringbone bond



Figure 6: Herringbone bond in front of MIST's one of the Mechanical Engineering lab

In herringbone bonds, bricks are laid at an angle, in decorative patterns. They are mostly used for aesthetic purposes on paving or ornamental walls.

Spanish bond



Figure 7: Spanish bond throughout MIST plaza

Spanish bond alternates between rows of stretchers (bricks laid lengthwise) and headers (bricks laid with their short side facing out). They create a visually appealing pattern and are used in decorations.

Common bond (full header every 6th row)



Common bond consists mostly of stretcher courses (bricks laid lengthwise with their longer side visible). However, in every 6th row (or at a regular interval) there is a header course (bricks laid with their short side visible).