



SNS COLLEGE OF TECHNOLOGY



AN AUTONOMOUS INSTITUTION

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DEPARTMENT OF CIVIL ENGINEERING

16GET102 – BASIC CIVIL & MECHANICAL ENGINEERING I YEAR / I SEMESTER

Unit 2 : Civil Engineering Materials and Surveying

Topic 1 : Super Structure – Brick Masonry



Super Structure



The part of the building which is above the ground level is called super structure. This provides human comfort and Structural safety

Components of Super Structure

- Masonry
- Beams & Columns
- Roofing
- Lintel
- Doors and Windows
- Plastering
- Ventilators etc.,



Masonry



Masonry is an art of construction in which brick or stone is bonded with mortar.

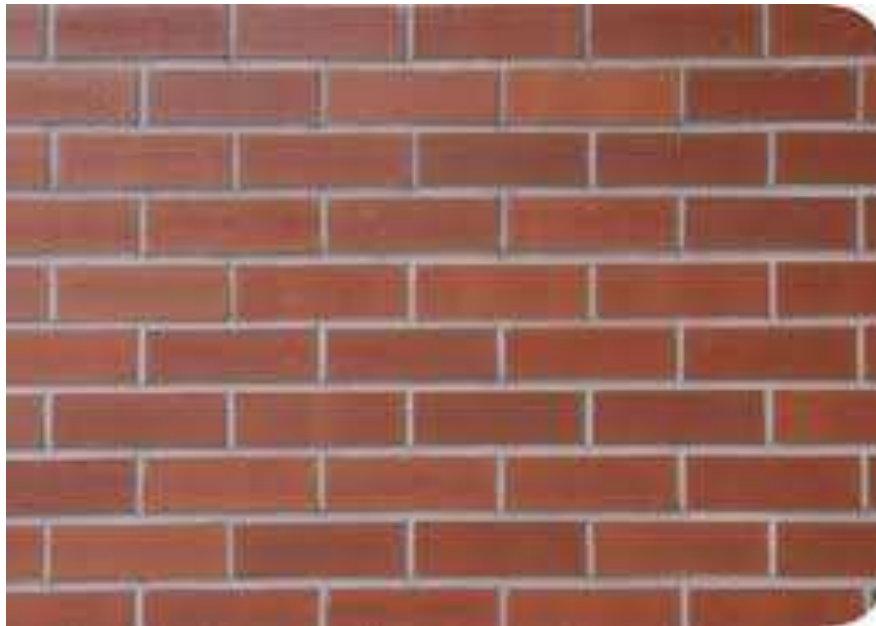
Types of Masonry

- Brick Masonry
- Stone Masonry



Brick Masonry

Brick masonry is defined as the systematic arrangement of bricks, which are bonded together with mortar.





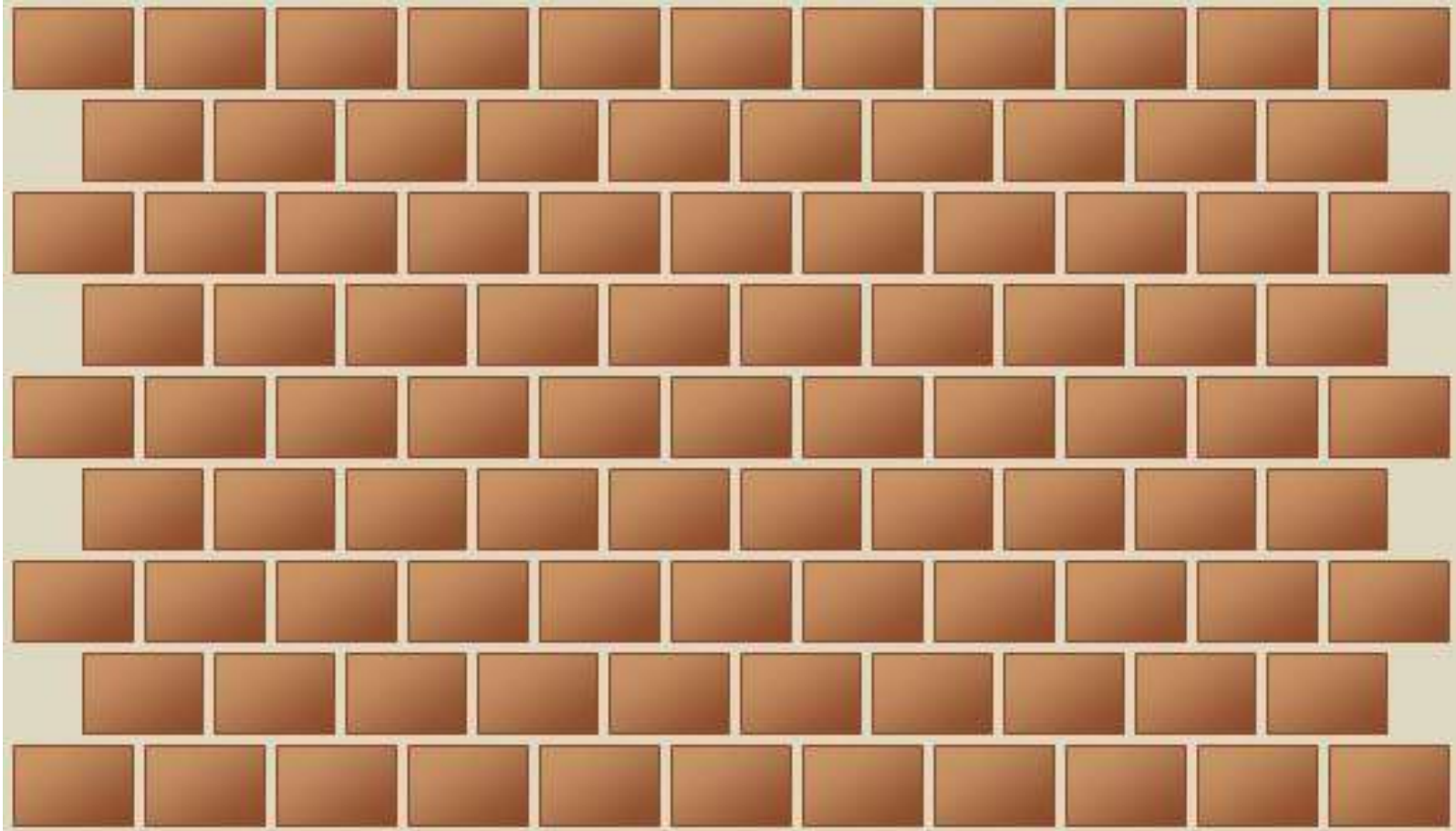
Types of Bonds in Brick Masonry



1. Header bond
2. Stretcher bond
3. English bond
4. Flemish bond
5. Raking bond (zig-zag & diagonal bond)

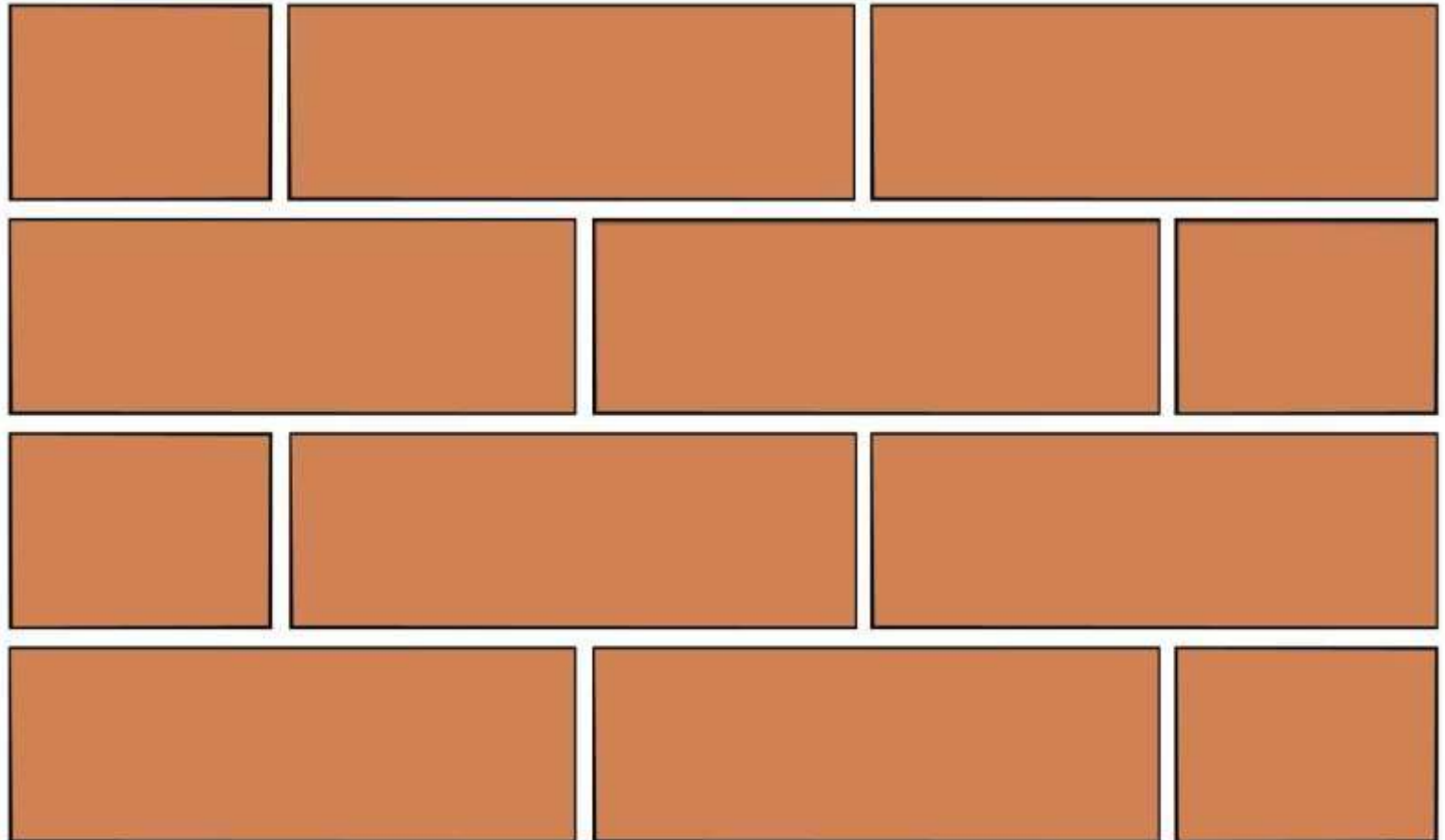


Header Bond



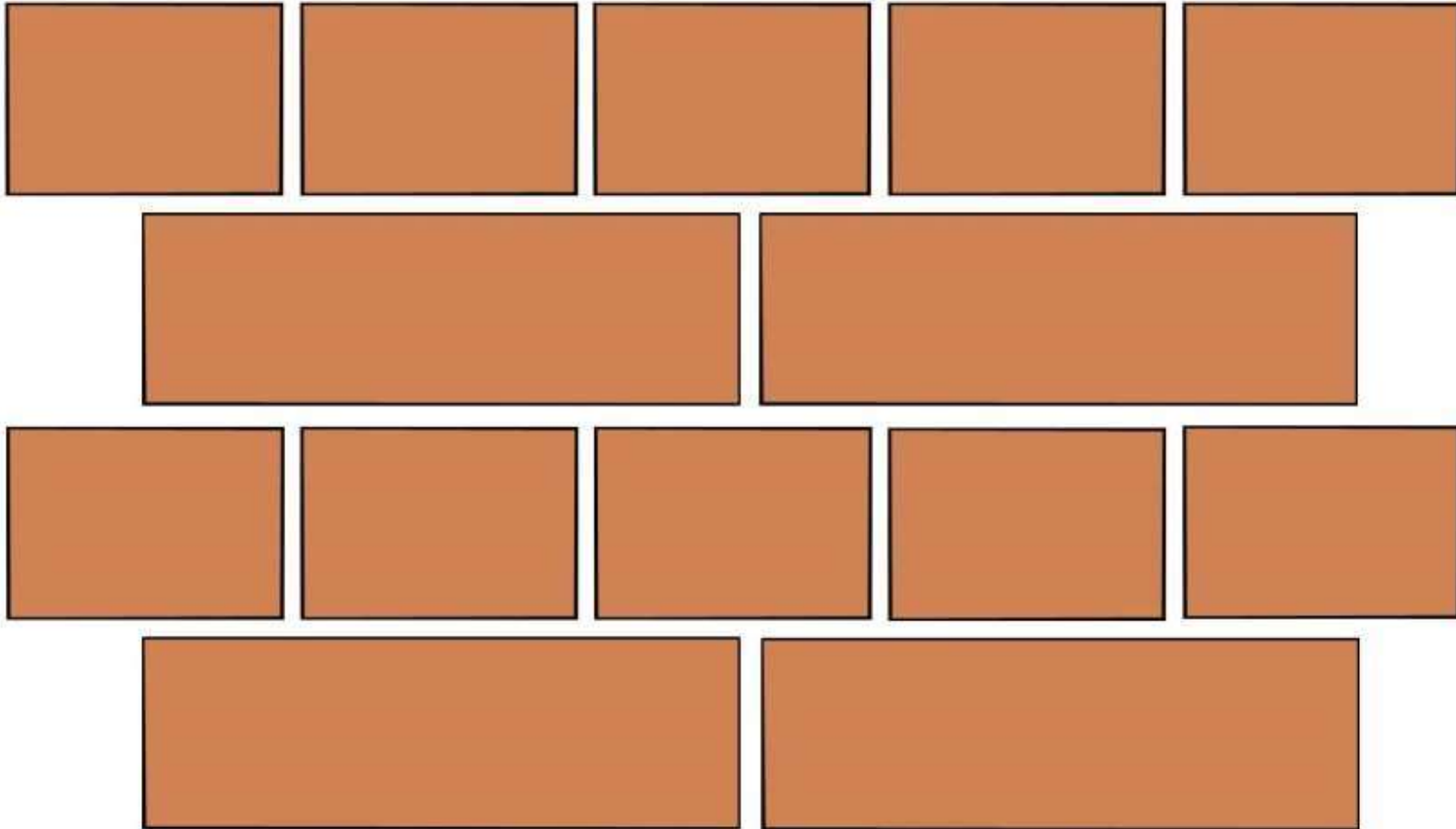


Stretcher Bond



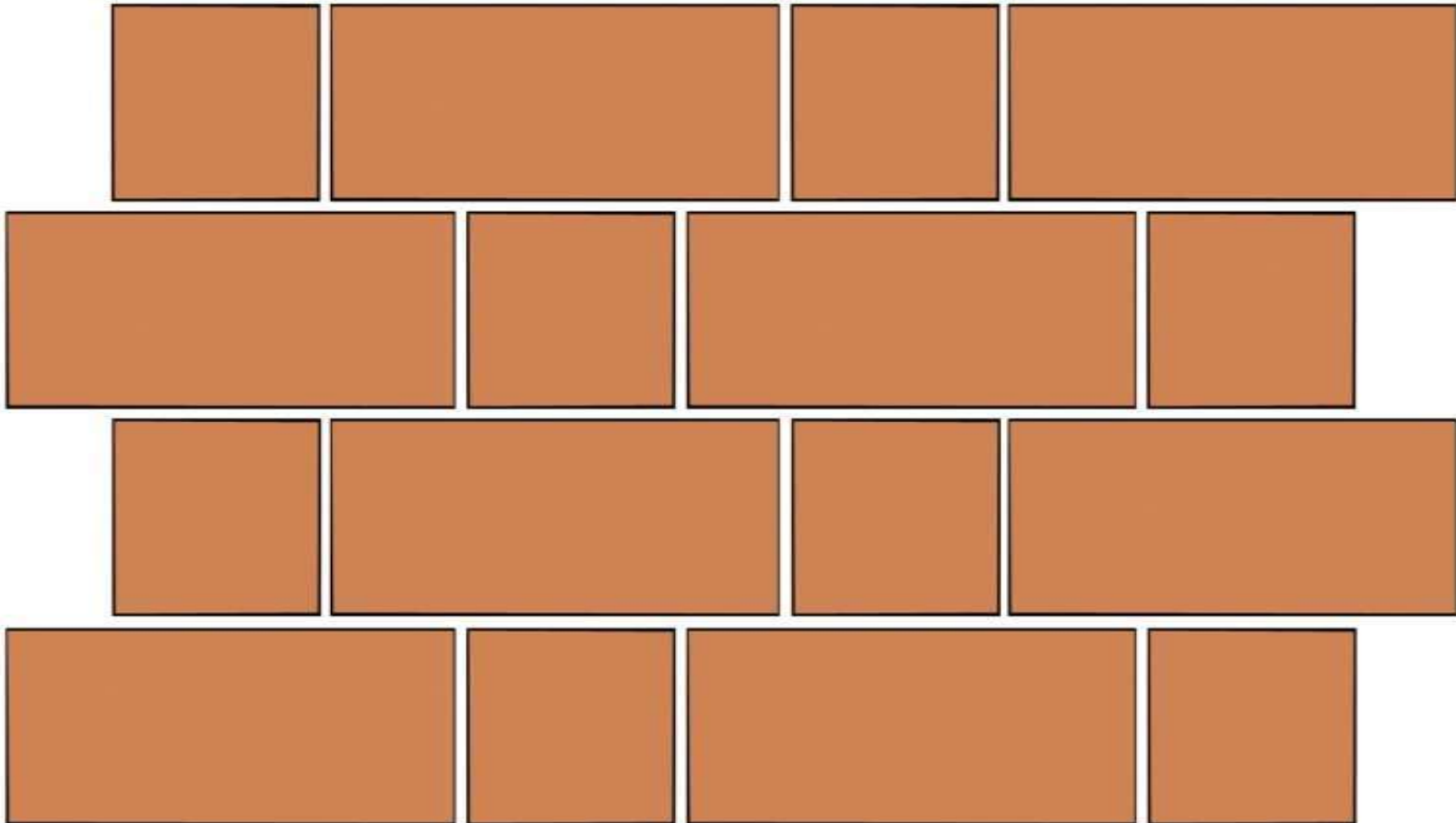


English Bond



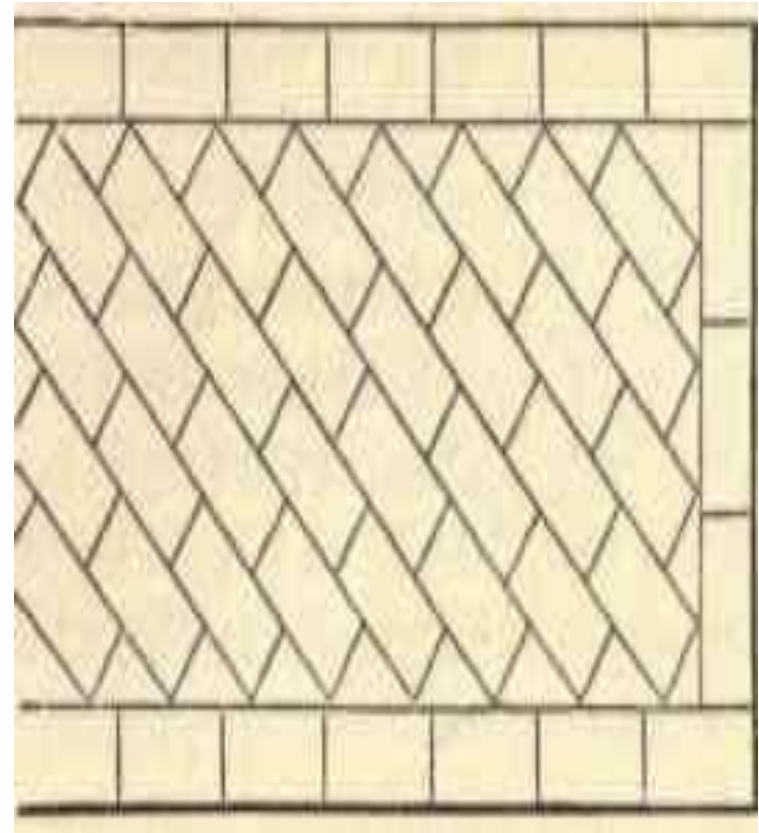
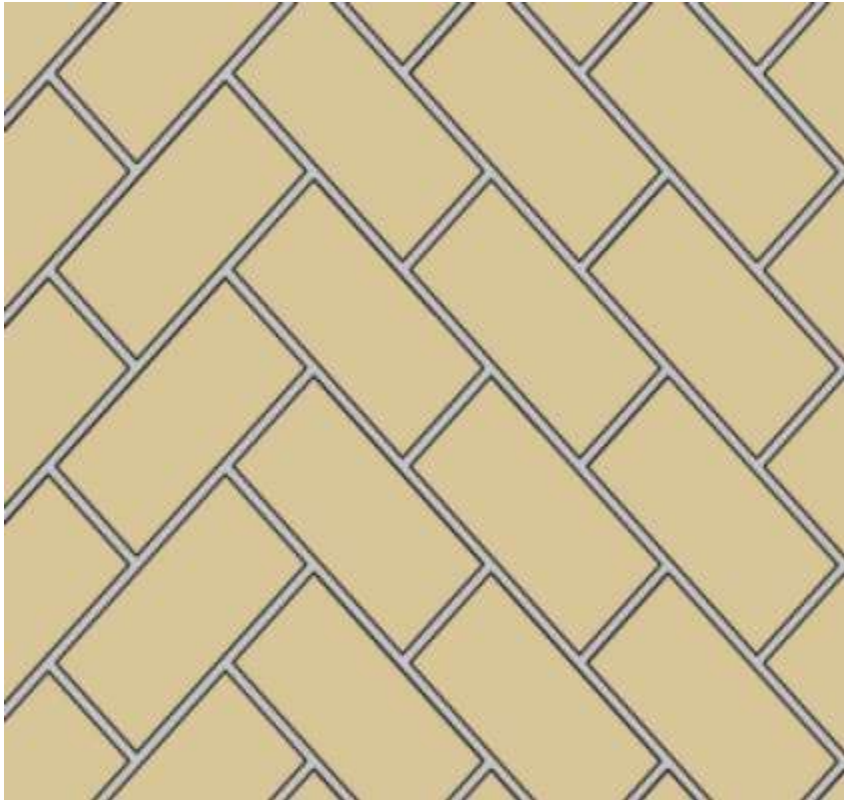


Flemish Bond





Zig-Zag Bond





Thank You!!