

5. The above mentioned robustness is the average for robustness for ten bricks chosen according to the British specifications 6073- the second part.
6. Cement supply: The cement supply which is used in building walls should be equal in force to (6:1:1) (Portland cement, lime, fine sand) with the rates of the dry materials mass or according to the mentioned rates in the British specifications 5628 – the first part- 1985/1978 for the supply which is third degree with observing the harmony of the cement supply with the brick and the place of its usage.
7. The walls links: British code No: 1243 – 1978 (**BS 1243: 1978**) for the specifications of metal links used in double walls if these walls are not exposed to strong environmental circumstances and in this case the rustproof steel is used as it is mentioned in the British code No: 5628 – the third part (**BS 5628: part 3: 1985**).
8. The sustaining walls: Bearing walls should be well- connected from its two sides with a cross sustaining walls or with a concrete column where these supports should be with sufficient dimension to support the bearing walls on its entire height.
9. Cutting in walls; the depth of the vertical cutting in walls should not be more than ( $\frac{1}{3}$ ) of the thickness of the wall as well as the depth of the horizontal cutting in walls should not be more than ( $\frac{1}{6}$ ) of the wall with observing that this cutting should not affect the balance of these walls.

**Article (57): The tests of the soil and the foundations:**

The following should be observed when designing the foundations (except the buildings with only one floor):

- a. Doing field tests for the soil through a soil testing lab which is licensed in Dubai emirate with the necessity to study the following technical aspects:
  1. The quality of the layers of the soil and its features.
  2. Geometrical recommendations about the robustness of the soil and the value of the expected landing.
  3. The level of the groundwater and its quality and contents.
  4. The effect of the soil and the groundwater concerning the corrosion and the rust of iron.
  5. The effect of ebb and flow on the foundation balance.
  6. The requirements for supporting the digging sides.
  7. The recommendation related to the quality of the foundations.
- b. Digging sites should be settled on the location map and settling the coordinates according to the areal reference of the municipality.
- c. Recommendation with the specifications of the concrete and the cement which are suitable for the soil of the location (according to the British specifications 5328- the first part- 1997 and CIRIA special No: 31) (**SB 5328: part 1: 1997 & CIRIA special No: 31**) where the breaking force for the reinforced concrete should not be less than (30 N/ mm<sup>2</sup>).