



Design and Architectural Services

BASICS OF BRICKWORK DETAILING

PROVIDED BY GLEN-GERY CORPORATION

Water penetration is responsible for many of the problems encountered in masonry walls today. The successful performance of a masonry wall depends on limiting the amount of water penetration and controlling any water that does enter the wall system. Water penetration resistance and control in brick veneer is the focus of this presentation. The concept behind the 'brick veneer drainage wall' is discussed in detail, as well as, the proper materials to specify in order to maximize a wall's water penetration resistance. The various elements and materials which make up a building are in a constant state of motion. All building materials expand and contract due to changes in temperature; some materials move with changes in moisture content. Each building material also changes dimensions due to stress and some materials tend to flow when subjected to sustained loads. These major causes of movement: thermal, moisture, deflection and creep, along with the proper way to control these movements are the focus of this presentation.

Other topics included in this presentation are --

Workmanship

What to expect from the mason.

Airspaces

Why is the airspace so important and what are the minimum requirements for proper performance.

Colorless Coatings

When should they be used? Are they always effective?

Flashing and weepholes

Which types are most effective?

Expansion Joints, Control Joints, Building Expansion Joints

Is there really a difference, or is it just semantics.

Joint Spacing

Is there an appropriate 'Rule of Thumb' - or can such a rule lead to cracking?

Compressible fill

Where should it be used and why.

Shelf angle details

What must occur at shelf angles to allow for the expected movements?