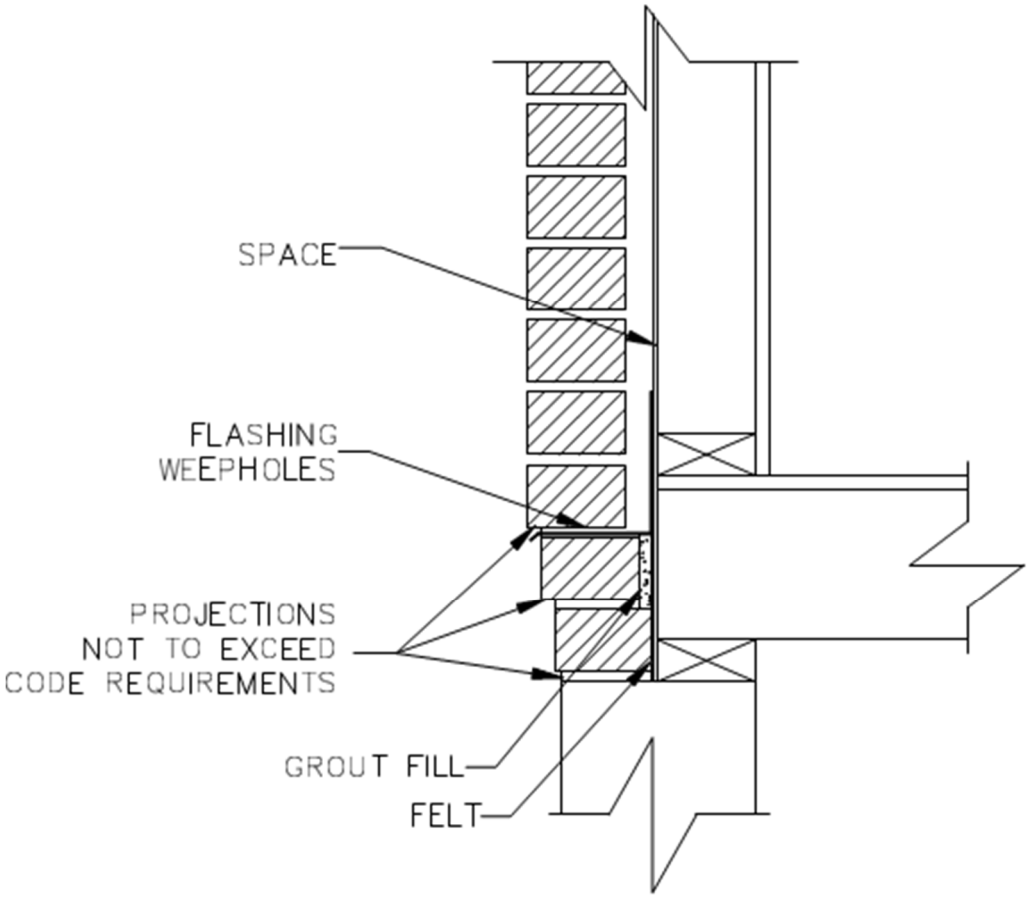
General Shale Brick

ENGINEERING SERVICES

Technical Bulletin - Corbeled Masonry

Most model building codes allow masonry veneer to be corbeled (projected out beyond the face of the wall).

These code provisions can be used to achieve planned architectural effects or to solve unanticipated construction problems such as foundation misalignment on a residential project. Generally, corbeled masonry is allowed if the total horizontal projection does not exceed one half of the wall thickness or each unit is not projected more than one half the unit height or one third the unit thickness. You should consult with your local code official and code reference for the specific requirements on your project.



Code References

TMS 402 2016

5.5 Corbels

Max Projection of Total Corbel ½ x Wall Thickness

Max Projection of a Single Unit ½ x Unit Height

Max Projection of a Single Unit ⅓ x Unit Thickness

IBC 2018

2104.1 Masonry Construction (Defers to TMS 602)

Corbeling specifications not given in text

2113.5 Corbeling (Masonry Chimneys)

Minimum wall thickness for corbel = 12 inches

Max Projection of Total Corbel ½ x Wall Thickness Max Projection of a Single Unit ½ x Unit Height Max Projection of a Single Unit ⅓ x Unit Thickness

IRC 2018

R606.5 Corbeled Masonry

Max Projection of Total Corbel ½ x Wall Thickness Max Projection of a Single Unit ½ x Unit Height Max Projection of a Single Unit ⅓ x Unit Thickness

R606.6 Support Conditions
Total horizontal corbel for veneer <2”
Max Projection of a Single Unit ½ x Unit Height Max Projection of a Single Unit ⅓ x Unit Thickness