Arch modeling diagram

clearSpanWidth

pierWidth

topAbutmentHeight

riseHeight

pierHeight

depth

clearSpanWidth/2

archHalfExtensionWidth

archHalf = true

Modify clearSpanWidth, riseHeight, depth, topAbutmentHeight, pierWidth, pierHeight, archHalfExtensionWidth at purpose. clearSpanWidth measure refers to a full arc, consider clearSpanWidth/2 for the archHalf width.
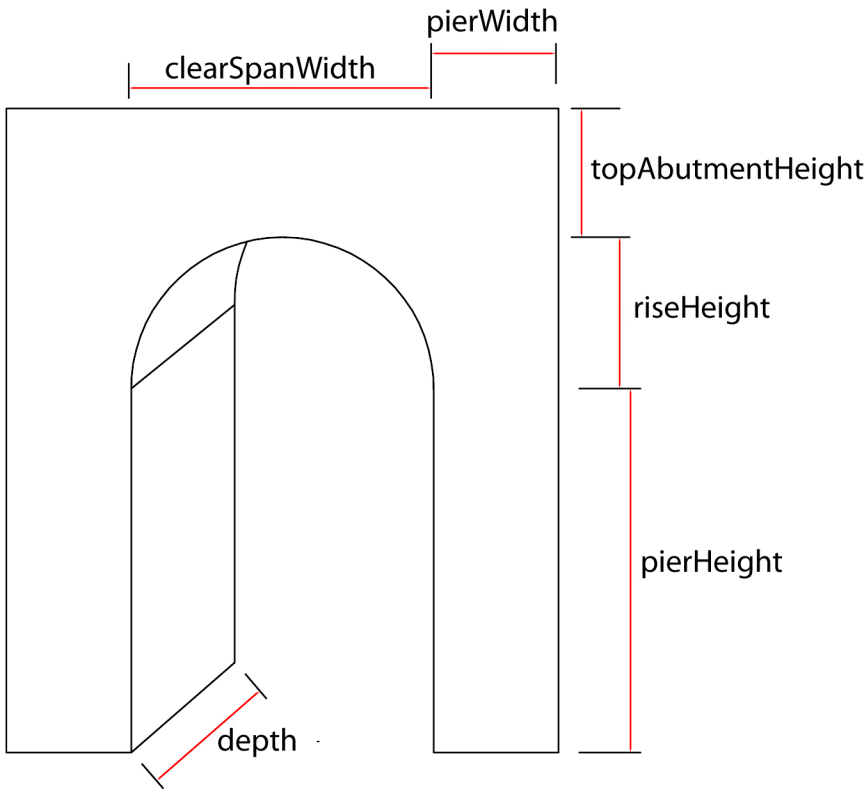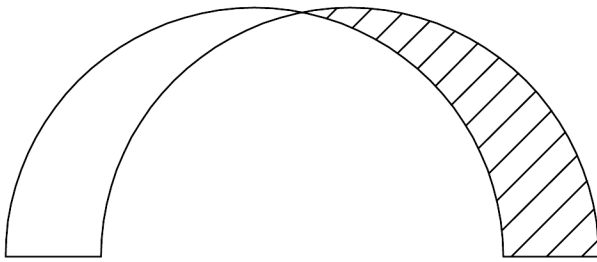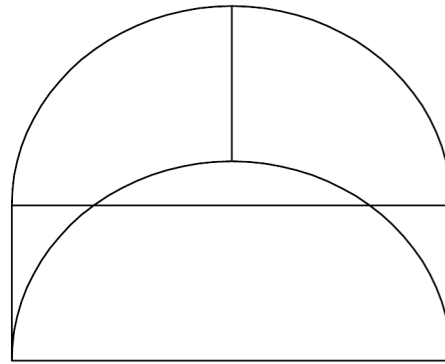
General parameters

clearSpanWidth must be double of riseHeight to obtain a full circumference. topAbutmentHeight=0 means no topAbutment; pierWidtht=0 means no pierWidth; pierHeight=0 means no pierHeight
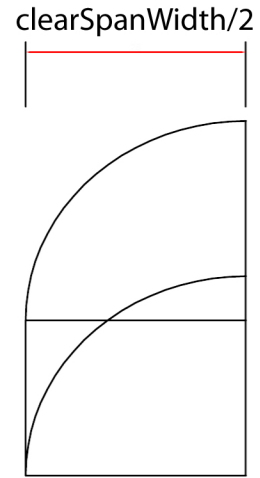
clearSpanWidth/2

intradosOnly = true

Modify clearSpanWidth, riseHeight, depth at purpose. Note it is a flat curved surface. If needed apply archHalf=true.
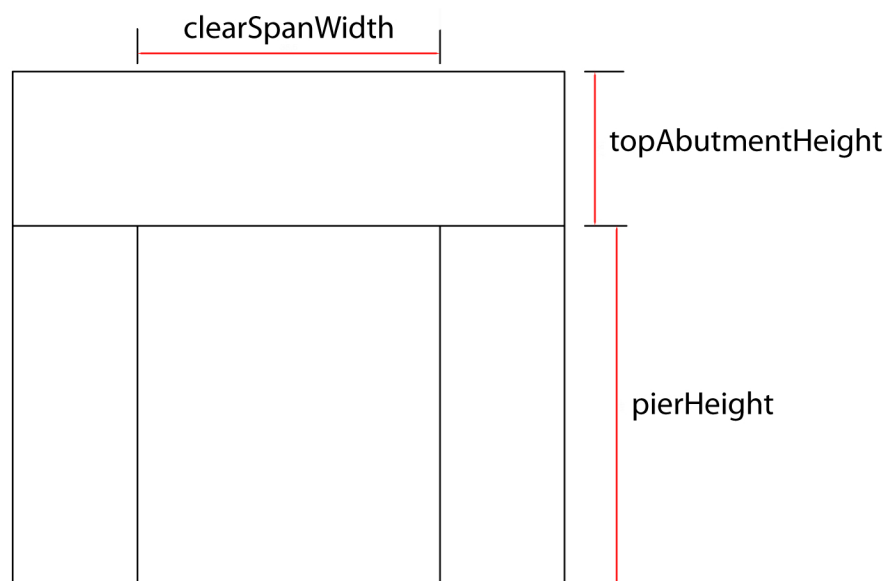
archFilled = true

Modify clearSpanWidth, riseHeight, depth at purpose. Note it is an half cylinder.

halfArchFilled = true

Modify clearSpanWidth, riseHeight, depth at purpose. Note it is a quarter cylinder.

clearSpanWidth

topAbutmentHeight

pierHeight

lintel = true

Modify clearSpanWidth, depth, topAbutmentHeight, pierWidth, pierHeight, at purpose. If needed apply archHalf=true.