Padstone calculator

Masonry Input

Structural calculations for padstones

Beam End Reaction	28.9 kN (factored)	
Characteristic strength of masonry	2.6 N/mm^2	
Width of beam end bearing	152 mm	γm = 3.0
Length of beam end bearing	100 mm	Bearing Factor = 1.25

Masonry Results

Maximum Bearing Stress:	1.08	N/mm^2
Actual Bearing Stress:	1.90	N/mm^2

Padstone Required

Padstone Input

Characteristic strength of Padstone	13.2	N/mm^2
Width of Padstone	100	mm
Length of Padstone	440	mm

Padstone Results

Allowable padstone stress:	5.50	N/mm^2
Stress under beam end bearing:	1.90	N/mm^2
Allowable masonry stress:	1.08	N/mm^2
Stress under padstone:	0.66	N/mm^2

Therefore Masonry Stress OK
Therefore Padstone Stress OK