

Countersunk Sleeve Anchor A2

Non-Cracked concrete

Performance Data (C20/25 Concrete)

Outside Diam	Embedment Depth	Characteristic Resistance		Design Resistance		Recommended Resistance		Design Spacing	Design Edge Distance	
mm	mm	kN		kN		kN		mm	mm	
		Tensile	Shear	Tensile	Shear	Tensile	Shear	Tensile & Shear	Tensile	Shear
8	38	7.5	7.0	4.1	4.4	2.9	3.1	90	45	55
8	43	9.1	7.0	5.0	4.4	3.5	3.1	105	55	55
10	53	9.5	12.8	5.2	8.2	3.7	5.8	120	60	95
10	63	13.1	12.8	7.2	8.2	5.1	5.8	155	80	95
12	63	12.7	17.0	7.0	11.9	5.0	8.5	145	75	125
12	73	21.8	20.3	12.1	11.9	8.6	8.5	165	85	145

Shear Loads towards a free edge are for single anchors where Spacing $\geq 3 \times$ Edge Distance

Influence of increased concrete strength - Not applicable with sleeve anchors

Solid Brickwork

Performance Data (20 N/mm²)

Outside Diam	Embedment Depth	Characteristic Resistance		Design Resistance		Recommended Resistance		Recommended Spacing	Recommended Edge Distance	
mm	mm	kN		kN		kN		mm	mm	
		Tensile	Shear	Tensile	Shear	Tensile	Shear	Tensile & Shear	Tensile	Shear
8	38	2.3	3.6	1.2	2.4	0.9	1.7	90	45	55
8	43	2.7	3.6	1.5	2.4	1.0	1.7	105	55	55
10	53	3.1	7.4	1.7	4.9	1.2	3.5	120	60	95
10	63	3.9	7.4	2.1	4.9	1.5	3.5	160	80	95
12	63	3.8	11.4	2.1	7.6	1.5	5.4	Only 1 fixing per brick is recommended		
12	73	6.5	11.4	3.6	7.6	2.5	5.4			

Solid Concrete Blocks

Performance Data (7 N/mm²)

Outside Diameter	Embedment Depth	Characteristic Resistance		Design Resistance		Recommended Resistance		Recommended Spacing	Recommended Edge Distance	
mm	mm	kN		kN		kN		mm	mm	
		Tensile	Shear	Tensile	Shear	Tensile	Shear	Tensile & Shear	Tensile	Shear
8	38	1.5	2.1	0.8	1.4	0.5	1.0	90	45	55
8	43	1.7	2.1	0.9	1.4	0.6	1.0	105	55	55
10	53	2.3	4.4	1.2	2.9	0.9	2.0	120	60	95
10	63	2.7	4.4	1.4	2.9	1.0	2.0	160	80	95
12	63	2.9	6.7	1.5	4.4	1.1	3.1	145	75	125
12	73	3.4	6.7	1.8	4.4	1.3	3.1	165	85	145

Due to the variable nature of bricks and concrete blocks these figures are for guidance only