TECHNICAL DATA SHEET

ACROW PROPS



INTRODUCTION

OVERVIEW

Acrow Props are adjustable steel posts commonly used to provide temporary structural support for load-bearing walls, ceilings, floors and beams during construction, demolition, or repair and refurbishment work. They can also provide temporary shoring for trenches, scaffolding, or formwork for concrete pouring.

Each prop is comprised of an inner steel tube that slides inside a larger outer tube to reach the required height. A robust steel pin is inserted through pre-drilled holes in the tubes to lock the height and prevent movement. The inner tube can then be raised or lowered to apply the necessary pressure to support the structure.

KEY BENEFITS

- Heavy-duty steel build with a high load capacity able to withstand heavy structural weights.
- Clawed bases and head plates provide greater grip, stability and slip prevention.
- Threaded collar and pin system allows for easy prop height adjustment to fit varying spaces.
- Adjustable steel props can be reused for multiple projects, unlike wooden alternatives that need cutting to size and must be discarded after project completion.
- Superior resistance to fire and environmental hazards than wooden alternatives.
- Easy to transport, install and adjust with minimal tools.

PRODUCT INFORMATION

SPECIFICATION

THE RANGE



CODE	TYPE	CLOSED HEIGHT (mm)	OPEN HEIGHT (mm)	WEIGHT (kg)
TL900360	Acrow Prop 0	1041	1829	10.0
TL900361	Acrow Prop 1	1753	3124	16.3
TL900362	Acrow Prop 2	1981	3352	17.5
TL900363	Acrow Prop 3	2590	3962	20.2
TL900364	Acrow Prop 4	3200	4876	20.9
TL900417	Wall Support	N/A	N/A	-

SPECIFICATION

SAFE WORKING LOAD (kN)

Acrow Props loaded 25mm max eccentric and 1.5° max out-of-plumb

This table shows the recommended safe working loads for Acrow Props where concentric loading cannot be guaranteed.

When supporting timber bearers, the prop load may be limited by the allowable stress in timber.

HEIGHT (mm)	ACROW PROP TYPE				
	0	1	2	3	4
1250	17	17	17	17	-
1500	17	17	17	17	-
1750	17	17	17	17	-
2000	17	17	17	17	-
2250	17	17	17	17	-
2500	17	17	17	17	-
2750	17	17	17	17	-
3000	15	15	15	15	-
3250	13	13	13	13	17
3500	11	11	11	11	14
3750	10	10	10	10	11
4000	-	-	-	-	10
4250	-	-	-	-	9
4500	-	-	-	-	8
4750	-	-	-	-	7
5000	-	-	-	-	7

Note: To convert kN to tons or metric tonnes divide by 10.
*Prop load tables from BS4074 / CIRIA Technical Note 79

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SPECIFICATION

SAFE WORKING LOAD (kN)

Acrow Props loaded concentrically and 1.5° max. out-of-plumb

This table shows the recommended safe working loads for props supporting Metriform or similar formwork systems ensuring concentric loading.

When supporting timber bearers where fork heads are used to ensure concentric loading, the load on the prop may be limited by the allowable stress in timber.

HEIGHT (mm)	ACROW PROP TYPE				
	0	1	2	3	4
1250	32	-	-	-	-
1500	32	-	-	-	-
1750	21	32	32	32	-
2000	-	32	32	32	-
2250	-	32	32	32	-
2500	-	26	26	26	-
2750	-	23	23	23	-
3000	-	19	19	19	-
3250	-	17	17	17	24
3500	-	15	15	15	19
3750	-	13	13	13	15
4000	-	-	-	-	12
4250	-	-	-	-	11
4500	-	-	-	-	10
4750	-	-	-	-	9
5000	-	-	-	-	-

Note: To convert kN to tons or metric tonnes divide by 10.
*Prop load tables from BS4074 / CIRIA Technical Note 79

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SPECIFICATION

SAFE WORKING LOAD (kN)

Acrow Props loaded concentrically and suitably laced with a tube and fittings

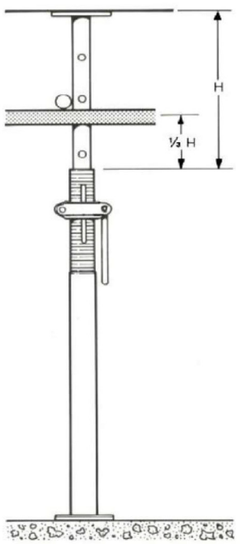
This table shows the recommended safe working loads for props laced in two directions, at right angles and at a level ⅓ of the height of the extended inner tube (see Fig.1).

The lacing and the formwork deck must be restrained against horizontal movement by securing to the building or with diagonal bracing.

When using the loading tables, the height of any drop head or similar attachment should be included in the prop height.

HEIGHT (mm)	ACROW PROP TYPE			
	1	2	3	4
2000	-	-	-	-
2250	-	-	-	-
2500	32	32	32	-
2750	32	32	32	-
3000	32	32	32	-
3250	32	32	32	32
3500	28	28	28	32
3750	24	24	24	30
4000	20	20	20	26
4250	-	-	-	22
4500	-	-	-	19
4750	-	-	-	16
5000	-	-	-	-

FIG.1



Note: To convert kN to tons or metric tonnes divide by 10.
*Prop load tables from BS4074 / CIRIA Technical Note 79

Acrow Props loaded using wall support (Strongboy) attachment

When using wall support attachments (Strongboy), the safe working load is significantly reduced from normal prop use.

Max Eccentricity to centre of load 215mm (cavity wall), SWL = 3.4kN

PRODUCT INFORMATION

TALKING TO US IS EASY

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