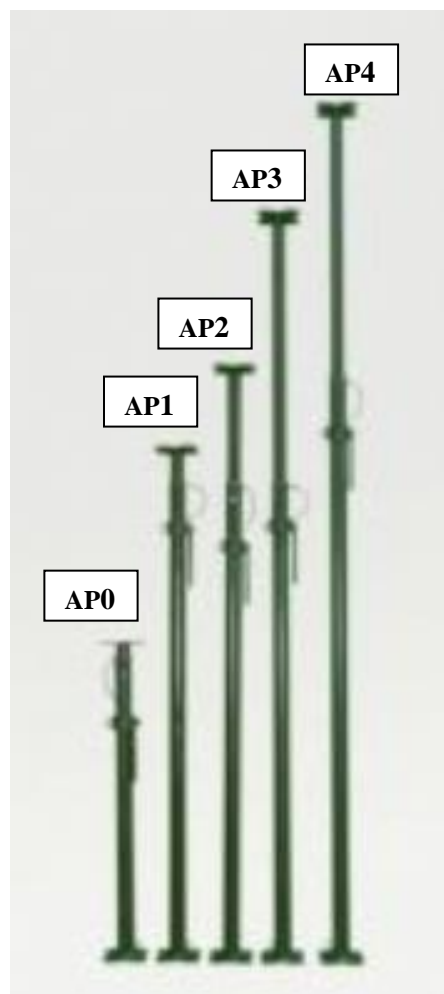


PRODUCT INFORMATION SHEET

Acrow Props

Acrow props are strong steel tubular like instruments that consist of a four part system. The parts are a male section, female section, a winding collar and a small pin. It is an economic and popular method of supporting load bearing structures in the building and construction industry. They are ideally suited to all kinds of building, repair works and structural alteration.

- Conform fully to BS4074:1982 / BS5507-3:1982



Size	Closed Length (mm)	Open Length (mm)	Weight with pins (kg)	Acrow Props Colour
0	1070	1820	10.0	Blue
1	1750	3120	12.0	White
2	2007	3350	14.0	Green
3	2590	3950	15.0	Red
4	3200	4870	22.0	Yellow

Notes:

- Outer Tube: 60.3mm dia / Inner Tube: 48.3mm dia.
- Base & Head Plate - 150mm x 150mm x 6mm, scalloped. Compatible with Forkheads.
- Care must be taken with AP2 & AP3. Take several measurements if necessary to make sure.
- Colour coding is being used to distinguish between props and to facilitate stock count. This is being started recently and will be applied as they are refurbished.
- Weight may vary due to repairing process, weld thickness and paint coverage.
- Weight may vary also as the manufacturer tends to keep the price keen.
- The British Standard for props does not stipulate weights for a product to comply; it simply gives a minimum characteristic strength for the products to be tested.
- If the exact weight of a particular prop is needed for security concern or to prevent an excessive load on a lorry, the weight reading must be taken on site itself before use and transportation.

SAFE WORKING LOAD (KN) FOR SCP PROP LOADED 25mm MAX. ECCENTRIC AND 1.5° MAX. OUT-OF-PLUMB.
Recommended safe working loads for Props where concentric loading cannot be guaranteed.
When supporting timber bearers prop load may be limited by allowable stress in timber.

Height (m)	1.25	1.5	1.75	2.0	2.25	2.5	2.75	3.0	3.25	3.5	3.75	4.0	4.25	4.5	4.75	5.0	5.25	5.5	5.75	6.0
Prop Size																				
0, 1, 2, 3	17	17	17	17	17	17	17	15	13	11	10	-	-	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	17	14	11	10	9	8	7	7	-	-	-	-
5	-	-	-	-	-	-	-	-	-	-	-	13	11	9	8.5	7.5	6	5	4.5	4

Source: Based on CIRIA Technical Note 79 (1977) (Except for size '0' props).

SAFE WORKING LOAD (KN) FOR SCP PROPS LOADED CONCENTRICALLY AND 1.5° MAX. OUT-OF-PLUMB.
Recommended safe working loads for Props supporting Metriform or similar formwork systems ensuring concentric loading. Also for timber bearers where fork heads are used to ensure concentric loading, but load on prop may be limited by allowable stress in timber.

Height (m)	1.25	1.5	1.75	2.0	2.25	2.5	2.75	3.0	3.25	3.5	3.75	4.0	4.25	4.5	4.75	5.0	5.25	5.5	5.75	6.0
Prop Size																				
0	32	32	21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1, 2, 3	-	-	32	32	32	26	23	19	17	15	13	-	-	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	24	19	15	12	11	10	9	-	-	-	-	-
5	-	-	-	-	-	-	-	-	-	-	-	18	15	12	11	9	8	7	6	6

Source: Based on CIRIA Technical Note 79 (1977) (Except for size '0' props).

SAFE WORKING LOAD (KN) FOR SCP PROPS LOADED CONCENTRICALLY AND SUITABLY LACED WITH TUBE AND FITTINGS.

Recommended safe working loads for Props laced in two directions, at right angles, at a level $\frac{1}{3}$ of the height of the extended inner tube (see sketch). The lacing and the formwork deck must be restrained against horizontal movement by tying to the building or by diagonal bracing.

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

Height (m)	2.0	2.25	2.5	2.75	3.0	3.25	3.5	3.75	4.0	4.25	4.5	4.75
Prop Size												
1, 2, 3	-	-	32	32	32	32	28	24	20	-	-	-
4	-	-	-	-	-	32	32	30	26	22	19	16

Source: Calculated in accordance with BS449: Part 2: 1969, but using a load factor of 2.

N.B. For all practical purposes, to convert kN to tonnes or metric tonnes, divide by 10.

