

BAUPROP 20

SYSTEMS: BAUTREG, BAUDECK

A family of high-load-bearing props.

PRODUCT FEATURES

-  8 mm thick base plates, shaped according to the prop class.
-  Load-bearing capacity fully compliant with the PN EN-1065 standard.
-  Made of galvanized steel tubes.
-  Locking pin with quick release mechanism.
-  Rolled adjustment thread formed directly in the outer tube.
-  Forged adjustment nut.
-  Hand-crushing and inner tube ejection protection.
-  Welded areas protected by hot-dip galvanization.



INDEX	NAME	WEIGHT [kg]
7120B20300	BAUPROP 20 - 300	16,8
7120B20350	BAUPROP 20 - 350	18,8
7120B20400	BAUPROP 20 - 400	22,5
7120B20550	BAUPROP 20 - 500	36,0

PRODUCT DESCRIPTION

-  - The prop is constructed of two galvanized steel tubes – an inner tube with adjustment holes and an outer tube with a rolled adjustment thread – as well as a forged adjustment nut, a locking pin (G-pin), and two plates forming the top and bottom bases. All processed areas are additionally protected with a hot-dip galvanized coating. The locking pin is equipped with a mechanism that enables quick release, making the dismantling process faster and more efficient.
-  The forged adjustment nut features a double-thread system, allowing for quicker height adjustment — the same height increment is achieved with fewer turns.
-  The thread is formed using an innovative tube rolling technology, eliminating the need for additional welds that could weaken the outer tube structure and increase corrosion risk. The thread is rolled after galvanization, ensuring high precision and smooth operation of the adjustment nut.
-  All tube processing, including adjustment holes, is performed using laser technology. This ensures high manufacturing precision and eliminates the issues common with traditional metalworking methods.
-  The top and bottom base plates are shaped according to the requirements of the PN-EN 1065 standard. Each plate has a mark on the outside indicating the prop's height range. Welding of the plates is carried out using an automated process. The welds are hot-dip galvanized and hardened with ultraviolet light for enhanced corrosion protection.
-  The lightweight yet durable design guarantees long-term, trouble-free use of the product while reducing storage and transport costs. This supports environmental responsibility and helps lower the carbon footprint.
-  The prop is designed, manufactured, and tested in full compliance with the PN-EN 1065 standard.

PURPOSE / METHOD OF USE

-  The BAUPROP is made of galvanized steel tubes and is designed to transfer high vertical compressive loads in temporary slab supports and systemized slab formwork.
-  The prop can be used with the inner tube positioned either upwards or downwards. It features a rolled external thread, allowing smooth height adjustment throughout its entire operating range. When fully lowered, a safety clearance is maintained to protect the installer's hand from crushing.
-  The built-in safety mechanism prevents the inner tube from slipping out, ensuring complete safety during handling and transport of the prop.

PERMISSIBLE LOAD [kN]

PROP WORKING HEIGHT	300	350	400	500
180 cm	36,9			
190 cm	36,9			
200 cm	36,9	36,9		
210 cm	36,9	36,9		
220 cm	32,5	36,9		
230 cm	29,5	36,9	36,9	
240 cm	27,0	36,9	36,9	
250 cm	25,7	36,1	36,9	
260 cm	24,8	33,1	36,9	
270 cm	23,9	31,6	36,9	
280 cm	21,3	30,1	36,9	
290 cm	20,4	28,3	36,9	
300 cm	20,2	24,9	36,9	36,9
310 cm		24,2	34,4	36,9
320 cm		21,8	32,6	36,9
330 cm		21,0	31,1	36,9
340 cm		20,4	29,2	36,9
350 cm		20,2	28,4	36,9
360 cm			26,6	36,9
370 cm			25,6	36,9
380 cm			22,0	36,9
390 cm			21,3	36,9
400 cm			20,4	36,9
410 cm				36,9
420 cm				36,9
430 cm				36,9
440 cm				35,3
450 cm				34,6
460 cm				34,3
470 cm				34,1
480 cm				30,4
490 cm				27,5
500 cm				27,4
510 cm				26,4
520 cm				25,1
530 cm				22,9
540 cm				21,9
550 cm				20,8

CHARACTERISTIC LOAD CAPACITY [kN]

PROP WORKING HEIGHT	300	350	400	500
180 cm	61,0			
190 cm	61,0			
200 cm	61,0	61,0		
210 cm	61,0	61,0		
220 cm	53,6	61,0		
230 cm	48,7	61,0	61,0	
240 cm	44,5	61,0	61,0	
250 cm	42,5	59,6	61,0	
260 cm	41,0	54,6	61,0	
270 cm	39,5	52,1	61,0	
280 cm	35,1	49,6	61,0	
290 cm	33,7	46,7	61,0	
300 cm	33,4	41,1	61,0	61,0
310 cm		39,9	56,8	61,0
320 cm		35,9	53,9	61,0
330 cm		34,6	51,3	61,0
340 cm		33,6	48,2	61,0
350 cm		33,4	46,8	61,0
360 cm			43,9	61,0
370 cm			42,2	61,0
380 cm			36,4	61,0
390 cm			35,1	61,0
400 cm			33,6	61,0
410 cm				61,0
420 cm				61,0
430 cm				61,0
440 cm				58,3
450 cm				57,1
460 cm				56,6
470 cm				56,2
480 cm				50,1
490 cm				45,4
500 cm				45,3
510 cm				43,6
520 cm				41,4
530 cm				37,8
540 cm				36,1
550 cm				34,4



The tests were conducted in full compliance with the requirements of the PN-EN 1065 standard.

PERMISSIBLE
LOAD [kN]

=

Characteristic load capacity [kN]

1,65 (safety factor)



Characteristic load capacity - the value of the load of the support determined in accordance with current standards, which does not include any partial safety factors necessary for the safe use of the support on the construction site. Characteristic load capacity is used to distinguish and classify supports.



Permissible load - the highest value of load determined in accordance with current standards, taking into account the partial safety factors necessary for safe use of the support on the construction site. The allowable load guarantees the safe use of supports under construction conditions.



Safety factor - Is the product of the partial material safety factor (1.1) and the load variation factor (1.5) necessary for the safe use of the support at the construction site.



TECHNICAL SPECIFICATIONS

PARAMETR	BAUPROP 20 300	BAUPROP 20 350	BAUPROP 20 400	BAUPROP 20 550
Outer tube diameter [mm]	63,0	70,0	76,0	88,0
Outer tube wall thickness [mm]	3,0	2,8	2,8	2,8
Inner tube diameter [mm]	51,0	56,0	63,0	76,0
Inner tube wall thickness [mm]	2,8	3,0	3,0	3,0
Base plate thickness [mm]	8,0	8,0	8,0	8,0
Base plate dimensions [mm]	120x120	120x120	120x120	140x140
Minimum height [mm]	1722	1996	2250	3000
Maximum height [mm]	3000	3500	4000	5500
Weight [kg]	16,9	18,8	22,5	36,0

TECHNICAL DRAWINGS / PHOTOS

