



COMIPONT
we build your success

HANDBOOK

STEEL PROPS EN 1065



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1. FOREWORD

The aim of this handbook is to provide clear instructions for the use, assembly and handling of COMIPONT DIN EN 1065 steel props.

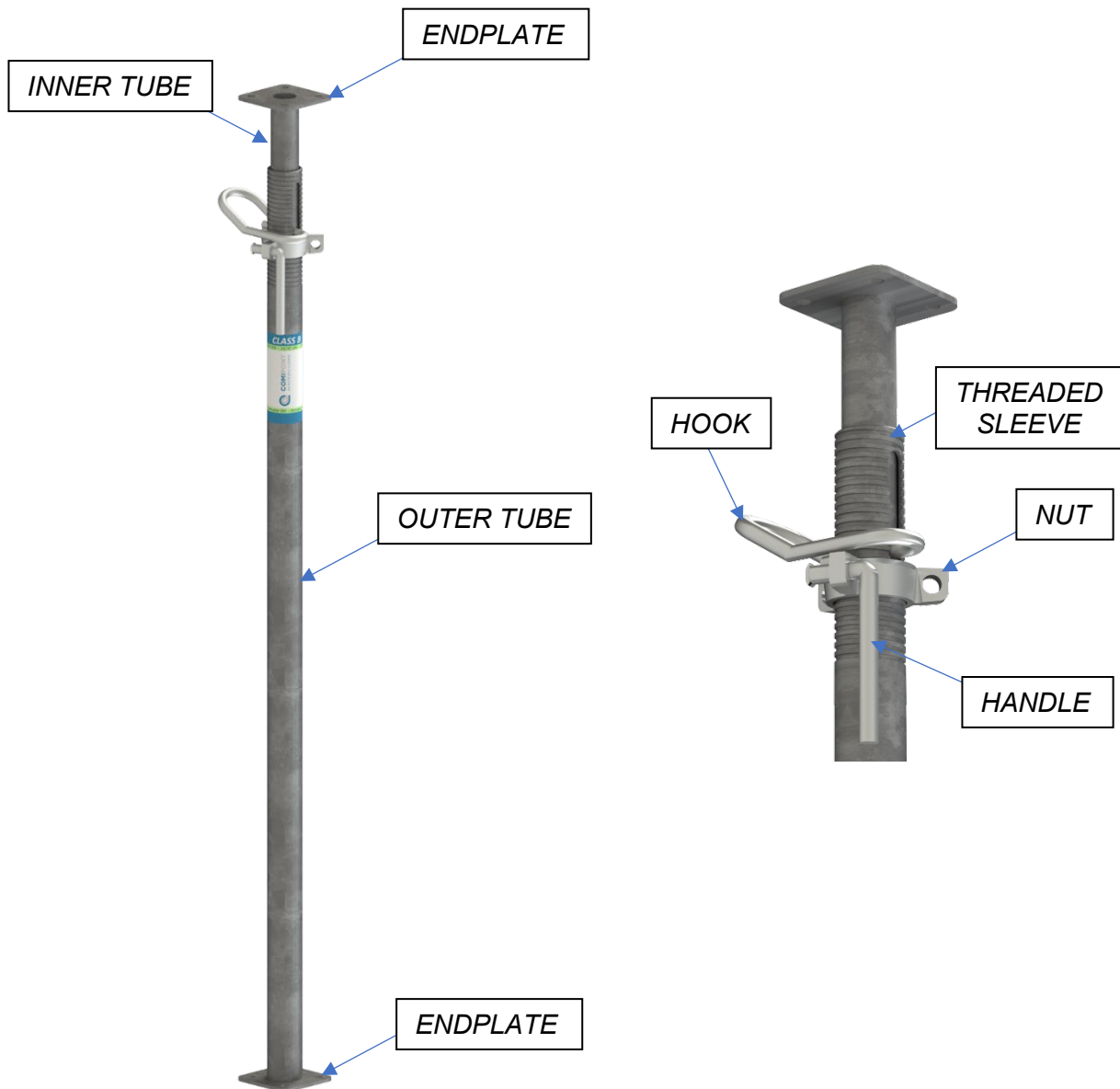
- This handbook is meant to provide useful instructions and cannot in any case replace national safety standards in each country.
- The employer will therefore prepare a document evaluating the risks to complete the safety standards
- The employer makes sure the instructions are known and understood by the users.

SYMBOLS

	<p>ATTENTION – DANGER Failure to comply with the instructions may cause damages or be dangerous for the health</p>
	<p>VISUAL CHECK</p>
	<p>USEFUL ADVICE</p>

2. PRODUCT DESCRIPTION

COMIPONT props are steel props tested to EN 1065. They are commonly used as a temporary vertical support in building works with or without cross forkheads or with lowering heads for integrated formwork systems.

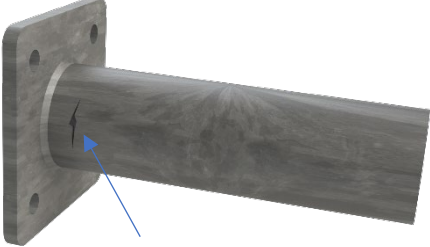
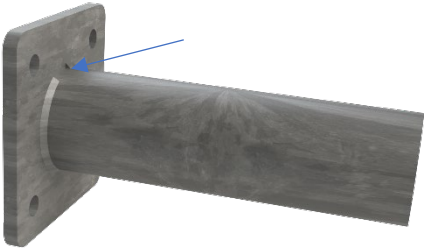
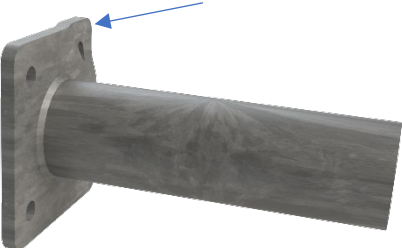



3. CHECKING OF THE COMPONENTS

The user must **inspect** the components before use.



If the components that are **damaged, deformed, weakened due to wear, corrosion or rust** must be **replaced** before use.

	<p>Damage or crack in the tube</p>
	<p>Incomplete or crack in welding</p>
	<p>Deformed components</p>
	<p>Deformed tube</p>

4. GENERAL INSTRUCTION FOR UPLIFTING AND HANDLING

Since handling and uplifting are particularly dangerous for the workers, they are to be done following special precautions and instructions.

For uplifting and handling use COMIPONT S.p.A pallets (D, DN, DC, EXPORT Type)

GENERAL INSTRUCTION

The instructions below are to be followed when uplifting and handling the pallets:

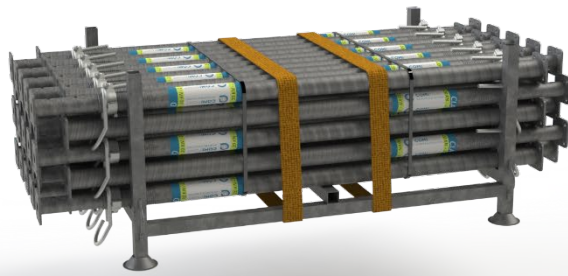
- Before uplifting and transport the pallets , make sure they are in good conditions: no breaks or cracks in welding, no rusty areas, no dents in tubes or cones;
- Make sure of the effective carrying capacity of the uplifting equipment
- Make sure that condition and carrying capacity of the ropes are suitable to the load to be uplifted
- The uplifting accessories such as hooks must be equipped with safety locks in order to prevent the unintentional release of ropes or chains;
- Check the hooks to make sure of their carrying capacity and the condition especially of the beak and the locking device.
- Pre- arranged attachment points must be used
- Pallets must be lifted one at a time (it is forbidden to hook several stacked containers);

- During the uplifting the container is to be well balanced to avoid tipping either of the pallet itself or its content
- The load slinging must be carried out using suitable means to prevent the load from falling or moving from its initial position

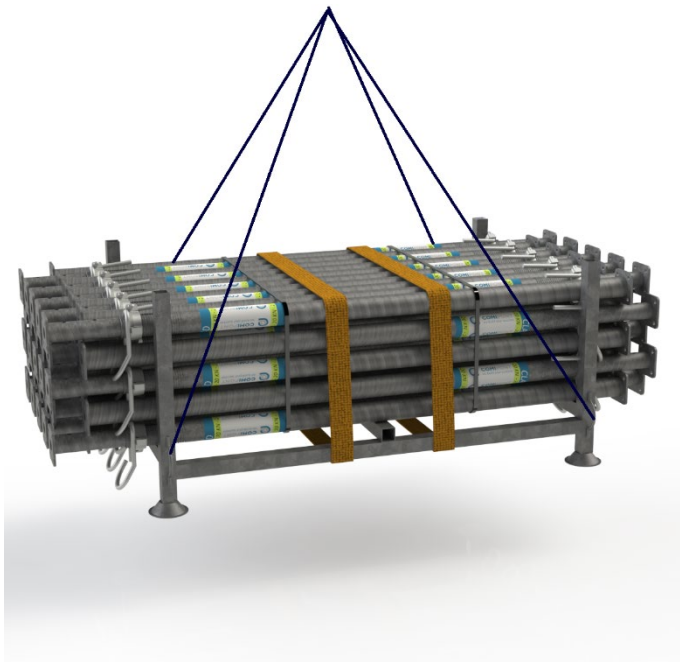
- It is forbidden to leave any equipment or material on the pallet during uplifting and handling
- Uplifting and handling are not to be done in case of strong wind
- The slingers must use protective equipment (suitable gloves, safety shoes, helmet..) supplied by the employer;

- Make sure that the slingers are taught and trained on the procedures to follow and check that they are respected:
 - Knowledge of the load to lift

 - Knowledge of the load to be handled
Before uplifting , fasten the props to the pallet by means of straps or ratchet straps



Uplifting may be done with crane or forklift.



5. INSTRUCTION FOR ASSEMBLY AND USE



Inspect the material before use as specified in the above section. Any components that are damage, deformed, weakened due to wear, corrosion or dust must be replaced.

COMIPONT S.p.A. shall not be held responsible for any damage caused by combining COMIPONT formwork system with those of other manufactures.



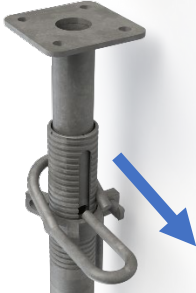



Trained personnel are required for the assembly



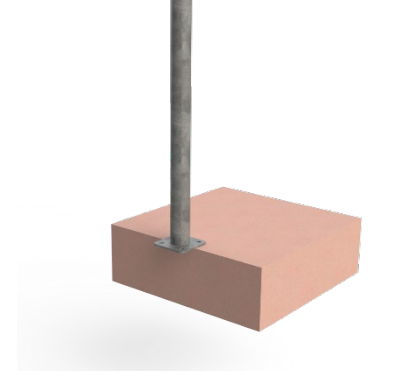
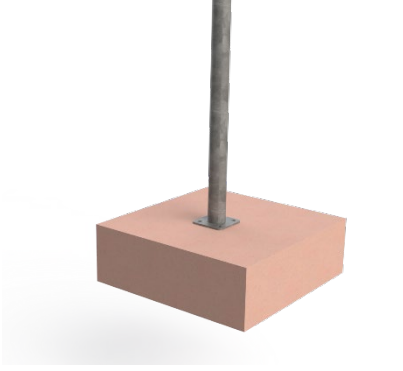
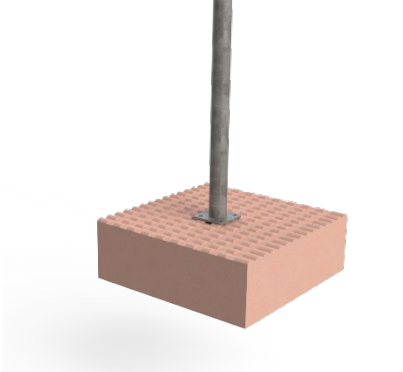
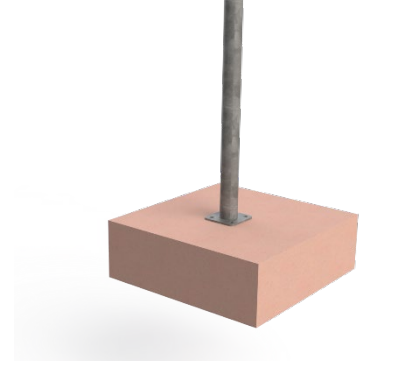

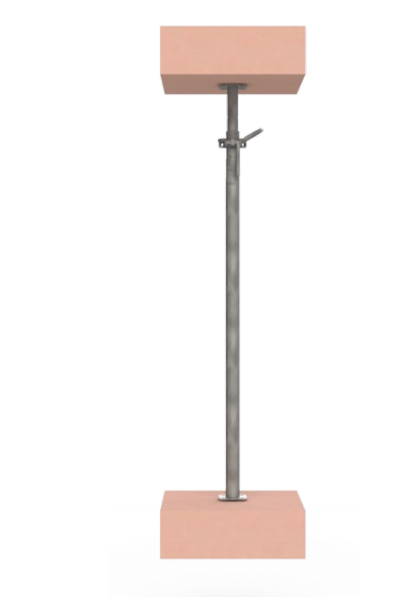
Strike the formwork only when the concrete has attained it is proprieties

ASSEMBLY OF PROPS

Adjust the height of the prop

	<p>Pull out the attached pin from the inner tube hole.</p>
	<p>Roughly adjust the height of the prop: push up the inner tube</p>
	<p>Insert the attached pin into the inner tube</p>
	<p>Fine adjustment of the height of the prop: rotate the collar nut until it blocks</p>

ERRORS BE AVOIDED

<u>NOT CORRECT</u>	<u>CORRECT</u>
	
Endplates must be placed correctly on the base	
<u>NOT CORRECT</u>	<u>CORRECT</u>
	
Props must be put on a plain and solid base	
<u>NOT CORRECT</u>	<u>CORRECT</u>
	
Check that the prop is upright and correctly placed on the endplates	

6. CLEANING AND MAINTENANCE

Clean the props before use.

Repair or replacements of parts of the props are exclusively to be made by COMIPONT S.p.A.

In the case of unauthorized modifications or repairs, COMIPONT S.p.A. shall not be held responsible for any damage that may occur.

7. TABLE OF PERMITTED LOAD CAPACITY

Prop Type	A30	A35	A40	A50
Minimum Prop Length	1810 [mm]	2010 [mm]	2310 [mm]	2810 [mm]
Maximum Prop Length	3000 [mm]	3500 [mm]	4000 [mm]	5000 [mm]
Weight (painted)	13,40 [Kg]	14,70 [Kg]	16,20 [Kg]	19,80 [Kg]
Table of maximum capacity load of prop [KN] (Safety factor = 1,65)				
Extension [mm]	Top	Top	Top	Top
1800	25,88			
1900	24,93			
2000	23,98			
2100	23,03	23,81		
2200	22,08	21,69		
2300	21,13	29,85	22,68	
2400	20,18	18,23	20,83	
2500	19,23	16,80	19,20	
2600	18,28	15,53	17,75	
2700	17,33	14,40	16,46	
2800	16,38	13,39	15,31	
2900	15,43	12,49	14,27	17,84
3000	14,48	11,67	13,33	16,67
3100		10,93	12,49	15,61
3200		10,25	11,72	14,65
3300		9,64	11,02	13,77
3400		9,08	10,38	12,98
3500		8,57	9,80	12,24
3600			9,26	11,57
3700			8,77	10,96
3800			8,31	10,39
3900			7,89	9,86
4000			7,50	9,38
4100				8,92
4200				8,50
4300				8,11
4400				7,75
4500				7,41
4600				7,09
4700				6,79
4800				6,51
4900				6,25
5000				6,00

Prop Type EN 1065	B30	B35	B40
Minimum Prop Length	1816 [mm]	2066 [mm]	2336 [mm]
Maximum Prop Length	3005 [mm]	3510 [mm]	4015 [mm]
Weight (painted)	15,70 [Kg]	17,20 [Kg]	19,60 [Kg]
Table of maximum capacity load of prop [KN] (Safety factor = 1,65)			
Extension [mm]	Top	Top	Top
1800	30,90		
1900	30,90		
2000	30,90		
2100	28,04	30,90	
2200	25,54	29,80	
2300	23,37	27,27	30,90
2400	21,46	25,04	28,62
2500	19,78	23,08	26,38
2600	18,29	21,34	24,39
2700	16,96	19,79	22,61
2800	15,77	18,40	21,03
2900	14,70	17,15	19,60
3000	13,74	16,03	18,32
3100		15,01	17,15
3200		14,09	16,10
3300		13,25	15,14
3400		12,48	14,26
3500		11,77	13,46
3600			12,72
3700			12,04
3800			11,42
3900			10,84
4000			10,30

Prop Type EN 1065	D30	D35	D40	D55				
Minimum Prop Length	1725 [mm]	1978 [mm]	2244 [mm]	3033 [mm]				
Maximum Prop Length	3000 [mm]	3500 [mm]	4000 [mm]	5500 [mm]				
Weight (painted)	17,80 [Kg]	19,70 [Kg]	22,10 [Kg]	35,00 [Kg]				
Table of maximum capacity load of prop [KN] (Safety factor = 1,65)								
Extension [mm]	Top	Bottom	Top	Bottom	Top	Bottom	Top	Bottom
1800	37,60	37,60						
1900	37,60	37,60						
2000	37,60	37,60	37,60	37,60				
2100	37,60	37,60	37,60	37,60				
2200	37,20	37,60	37,60	37,60	37,60	37,60		
2300	35,70	37,60	37,60	37,60	37,60	37,60		
2400	34,60	37,60	37,60	37,60	37,60	37,60		
2500	33,60	37,60	37,60	37,60	37,60	37,60		
2600	32,90	37,60	36,90	37,60	37,60	37,60		
2700	32,20	37,60	35,40	37,60	37,60	37,60		
2800	31,60	37,60	34,80	37,60	37,60	37,60		
2900	30,70	37,60	34,20	37,60	37,60	37,60		
3000	29,30	34,80	33,30	37,60	37,60	37,60	37,60	37,60
3100			32,10	37,60	36,40	37,60	37,60	37,60
3200			30,30	37,60	35,20	37,60	37,60	37,60
3300			28,10	37,60	33,80	37,60	37,60	37,60
3400			26,00	37,60	31,90	37,60	37,60	37,60
3500			23,90	35,50	29,60	37,60	37,60	37,60
3600					27,70	37,60	37,60	37,60
3700					26,50	37,60	37,60	37,60
3800					24,50	37,60	37,60	37,60
3900					22,60	37,20	37,60	37,60
4000					21,80	31,20	37,60	37,60
4100							37,60	37,60
4200							37,60	37,60
4300							37,60	37,60
4400							37,60	37,60
4500							35,60	37,60
4600							33,70	37,60
4700							32,60	37,60
4800							30,60	37,60
4900							29,30	37,60
5000							27,50	37,60
5100							26,60	37,60
5200							25,10	37,60
5300							23,90	36,50
5400							22,90	33,30
5500							21,80	30,20

Prop Type EN 1065	E30	E35	E40	E45 [*]
Minimum Prop Length	1725 [mm]	1978 [mm]	2244 [mm]	2492 [mm]
Maximum Prop Length	3000 [mm]	3500 [mm]	4000 [mm]	4500 [mm]
Weight (painted)	17,40 [Kg]	21,70 [Kg]	25,60 [Kg]	28,00 [Kg]

Table of maximum capacity load of prop [KN] (Safety factor = 1,65)

Extension [mm]	Top	Bottom	Top	Bottom	Top	Bottom	Top	Bottom
1800	41,20	41,20						
1900	41,20	41,20						
2000	41,20	41,20	41,20	41,20				
2100	41,20	41,20	41,20	41,20				
2200	41,20	41,20	41,20	41,20	41,20	41,20		
2300	41,20	41,20	41,20	41,20	41,20	41,20		
2400	40,70	41,20	41,20	41,20	41,20	41,20		
2500	39,70	41,20	41,20	41,20	41,20	41,20	41,20	41,20
2600	38,80	41,20	41,20	41,20	41,20	41,20	41,20	41,20
2700	37,70	41,20	41,20	41,20	41,20	41,20	41,20	41,20
2800	36,40	41,20	41,20	41,20	41,20	41,20	41,20	41,20
2900	35,80	41,20	41,20	41,20	41,20	41,20	41,20	41,20
3000	32,40	41,20	41,20	41,20	41,20	41,20	41,20	41,20
3100			41,20	41,20	41,20	41,20	41,20	41,20
3200			40,60	41,20	41,20	41,20	41,20	41,20
3300			37,70	41,20	41,20	41,20	41,20	41,20
3400			35,30	41,20	41,20	41,20	41,20	41,20
3500			32,00	38,50	41,20	41,20	41,20	41,20
3600					41,20	41,20	41,20	41,20
3700					41,20	41,20	41,20	41,20
3800					39,00	41,20	41,20	41,20
3900					36,80	41,20	41,20	41,20
4000					33,20	41,20	41,20	41,20
4100							38,90	41,20
4200							37,50	38,70
4300							35,20	36,20
4400							32,00	33,10
4500							30,90	30,90

* E45 PROP is not certified according to EN 1065 norm