

BOSTA 100

Instructions for erection and use

February 2004



HÜNNEBECK 

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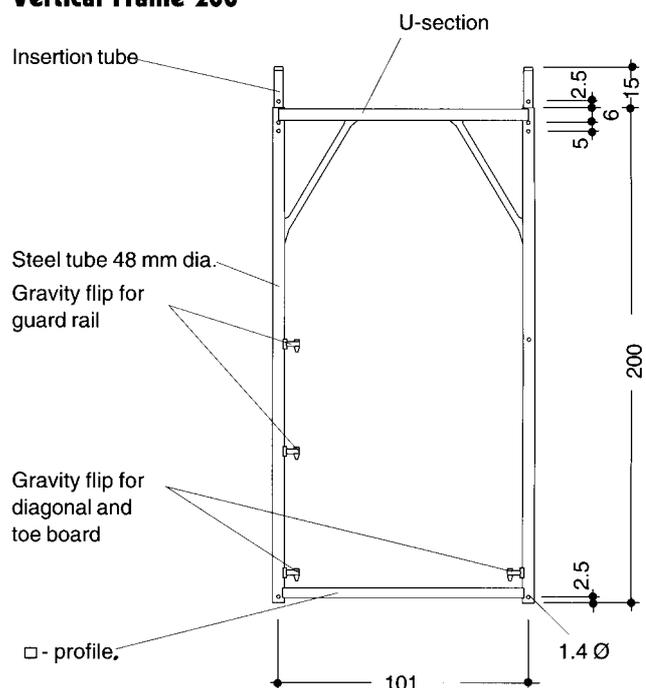
1.0 Product features

The Bosta 100 scaffold from Hünnebeck is a frame scaffold with 1.01 m system width, 3.00 m - 2.50 m - 2.00 m - 1.50 m - 1.25 m bay length and story heights from 2.00 - 1.50 m and 1.00 m. The scaffold is used as working, protective and protective roof scaffold as well as a mobile scaffold and as a supporting structure for roof trusses in winter construction work. All the steel components are hot-dip galvanized and the wood is impregnated to give it weather-protection. This ensures minimum maintenance and repair.

The Bosta 100 scaffold is certified by the „Institut für Bautechnik, Berlin“. This classification is according to DIN 4420, in scaffold group III and IV, i.e. the permitted loadability is up to 3 kN/m² (300 kg/m²) and with steel horizontal frames 250 and 125 up to 6 kN/m² (600 kg/m²).

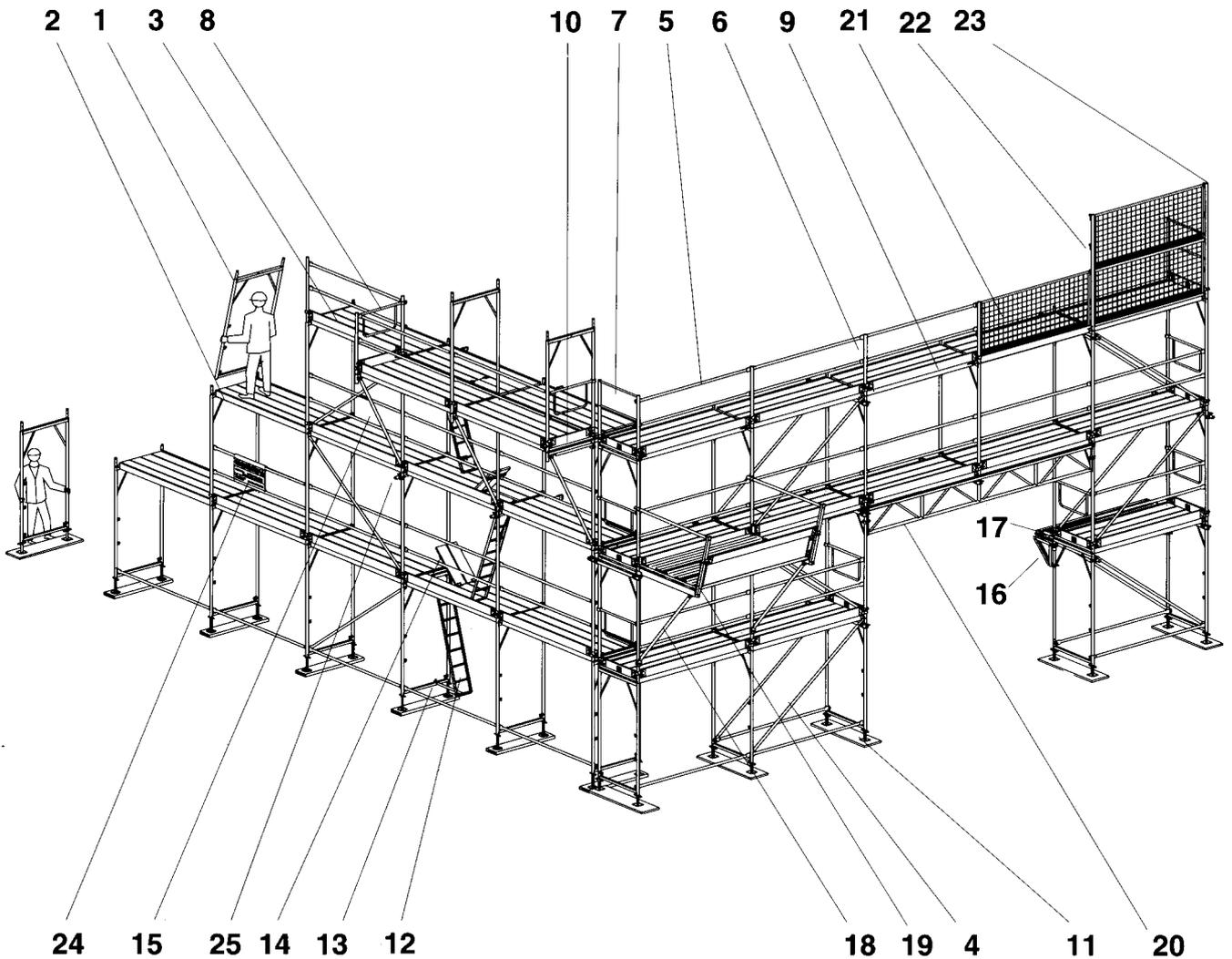
Many components of this scaffold can also be employed in the Bosta 70 scaffold.

Vertical Frame 200



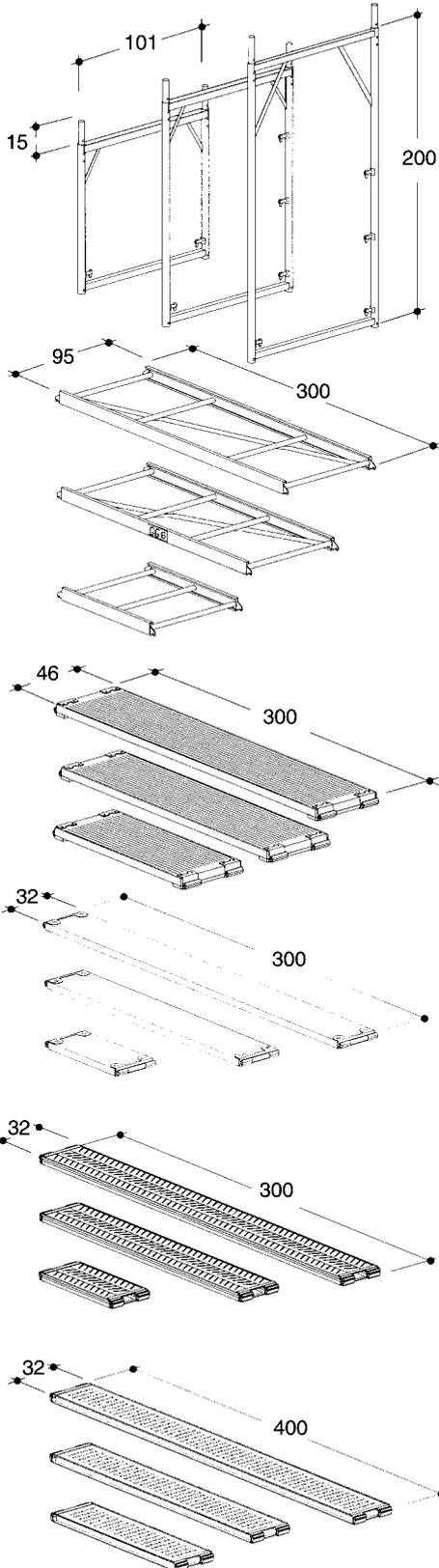
2.0 Overview

- | | | | |
|----|---------------------------|----|----------------------------|
| 1 | Vertical frame 200 | 14 | Ladder passage plank |
| 2 | Horizontal frame 250/100 | 15 | Enlargement bracket 100 |
| 3 | Horizontal frame plank | 16 | Enlargement bracket 50 |
| 4 | Diagonal | 17 | Aluminum stage 50/250 |
| 5 | Guard rail | 18 | Deck bracket 1.8 m |
| 6 | Railing post 100 | 19 | Bracket post |
| 7 | Double railing post 100 Q | 20 | Bridge girder |
| 8 | Double railing 100 Q | 21 | Roofer's mesh guard |
| 9 | Toe board 250 | 22 | Roofer's safety post 100 |
| 10 | Transverse toe board 100 | 23 | Roofer's safety post 100 Q |
| 11 | Base jack | 24 | Identification tarpaulin |
| 12 | Ladder 200 A | 25 | Scaffold tying point |
| 13 | Ladder retainer | | |



Components

3.1 Basic components



Description

Art. No.

Weight
kg/item

*= Can be used on the top lift in protective scaffolds and protective roof scaffolds.

Vertical frame 200

129 429

27.4

Vertical frame 150

129 430

22.3

Vertical frame 100

129 440

17.9

48 mm dia. tubular posts. For story heights of 2.00 m, 1.5 m and 1.0 m. Equipped with attachment points for guard rails, toe boards and diagonals (see page 16).

Horizontal frame 300/100 GG3

129 451

31.8

***Horizontal frame 250/100-6 GG6**

529 437

29.1

***Horizontal frame 125/100 GG6**

138 740

14.8

The horizontal frame is laid onto the U-rail of the vertical frame to receive the horizontal frame planks (see page 6).

***Aluminium stage 300/50 GG5**

540 299

24.7

***Aluminium stage 250/50 GG6**

540 303

21.2

***Aluminium stage 200/50 GG6**

540 314

17.6

***Aluminium stage 125/50 GG6**

540 325

12.3

Two aluminum stages yield the deck of a scaffold bay.

Plank 300/32 GG3

427 572

24.9

***Plank 250/32 GG4**

533 399

21.1

***Plank 200/32 GG5**

533 403

17.3

***Plank 150/32 GG6**

458 473

13.5

***Plank 125/32 GG6**

427 539

11.6

***Plank 74/32 GG6**

462 612

7.8

Three planks yield the deck of a scaffold bay. The design is symmetrical so that it can be used on both sides.

***Steel hollow box plank 300/32 GG3**

531 323

17.6

***Steel hollow box plank 250/32 GG4**

531 334

15.3

***Steel hollow box plank 200/32 GG5**

531 345

12.6

***Steel hollow box plank 150/32 GG5**

531 356

10.0

***Steel hollow box plank 125/32 GG5**

531 367

8.7

***Steel hollow box plank 74/32 GG5**

531 687

6.1

Steel sheet construction with an aluminium-zinc coating, extremely light and robust, beaded, slip-proof surface. Three planks for one bay.

***Steel plank 400/32 GG3**

530 307

31.5

***Steel plank 300/32 GG4**

427 984

23.0

***Steel plank 250/32 GG5**

427 973

19.4

***Steel plank 200/32 GG6**

430 279

15.8

***Steel plank 150/32 GG6**

485 858

12.2

***Steel plank 125/32 GG6**

430 280

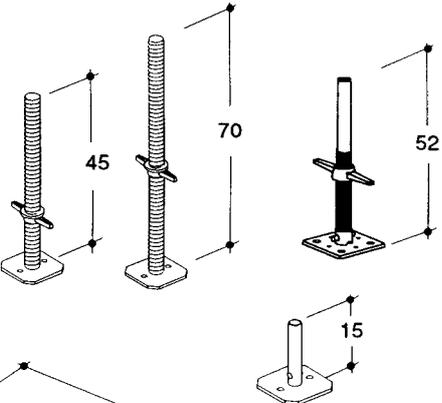
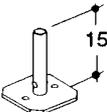
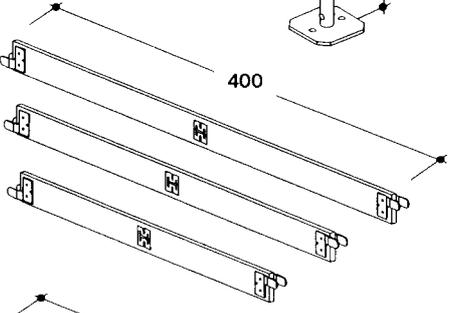
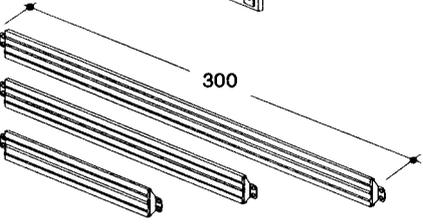
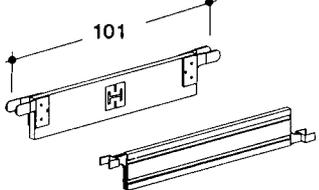
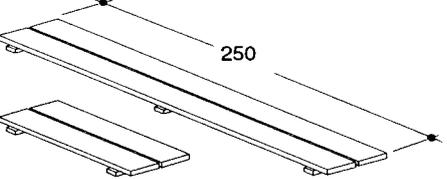
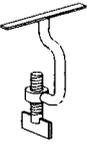
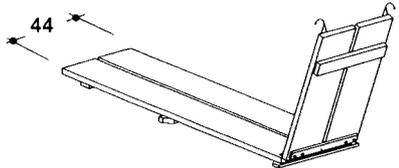
10.4

Three steel planks yield the deck of a scaffold bay. Extremely robust and slip-proof.

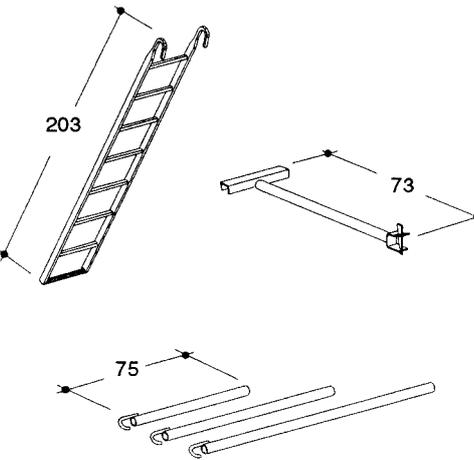
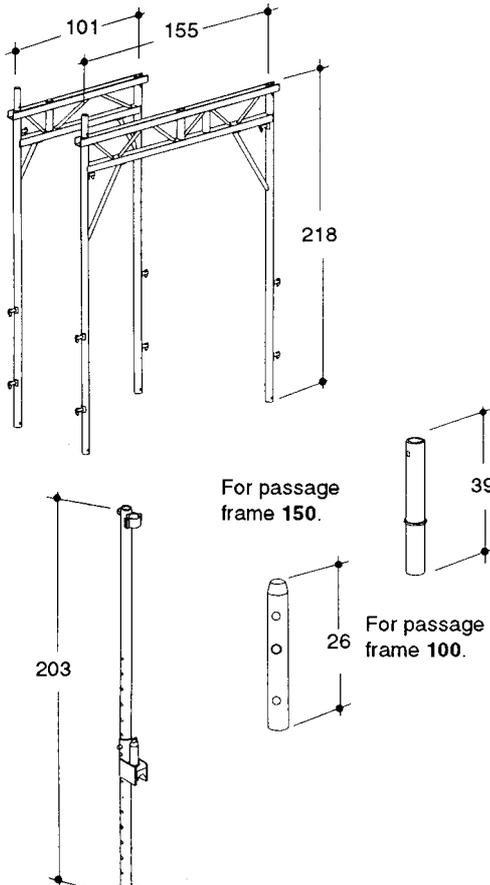
Components

	Description	Art. No.	Weight kg/item
	<p>*= Can be used on the top lift in protective scaffolds and protective roof scaffolds</p>		
	<p>* Aluminium stage 400/32</p>	529 805	21.4
	<p>* Aluminium stage 300/32</p>	479 860	16.8
	<p>* Aluminium stage 250/32</p>	479 871	14.4
	<p>* Aluminium stage 200/32</p>	479 882	12.0
	<p>* Aluminium stage 150/32</p>	479 893	9.6
	<p>* Aluminium stage 125/32</p>	479 908	8.4
	<p>Three aluminium stages yield a deck of a scaffold bay. The design is symmetrical (can be used on both sides) and they have a slip-proof surface.</p>		
	<p>Stage holder</p>	529 390	1.2
	<p>For aluminium stage 400/32 only. Insert 1 stage holder between 2 stages. Prevents the individual stages from sagging. Distance from support ≥ 50 cm.</p>		
	<p>For scaffold bay</p>		
	<p>Diagonal 204</p>	547 176	10.0
	<p>Diagonal 203</p>	110 167	7.9
	<p>Diagonal 200</p>	110 020	6.8
	<p>Diagonal 150</p>	119 606	6.4
<p>Diagonal 100</p>	002 054	4.6	
<p>Diagonal 220</p>	410 758	6.3	
<p>Diagonal 215</p>	410 736	5.5	
<p>For longitudinal stiffening of the scaffold. Hook the top end into the U-section and slide the bottom end over the gravity flip.</p>			
<p>Guard rail 400</p>	525 715	13.3	
<p>Guard rail 300</p>	138 957	6.5	
<p>Guard rail 250</p>	002 113	4.2	
<p>Guard rail 200</p>	154 080	3.4	
<p>Guard rail 150</p>	407 683	2.7	
<p>Guard rail 125</p>	002 102	2.1	
<p>Slide both ends over gravity flip.</p>			
<p>Transverse guard rail 100</p>	129 716	2.3	
<p>Double transverse rail 100</p>	534 441	4.3	
<p>To secure the ends of the scaffold decks.</p>			
<p>Railing post 100</p>	129 392	8.4	
<p>To receive the guard rail and toe board on the top scaffold lift.</p>			
<p>Secure with a 12 mm dia. frame pin against lift-off.</p>			
<p>Double railing post 100 Q</p>	452 969	14.8	
<p>Forms the end rails of the top scaffold lift. Secure with a 12 mm dia. frame pin.</p>			

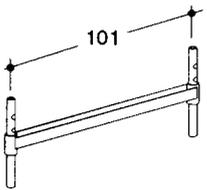
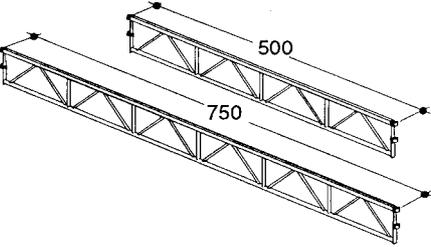
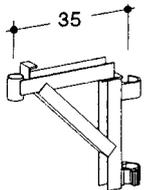
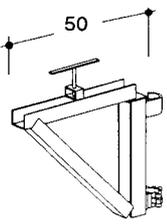
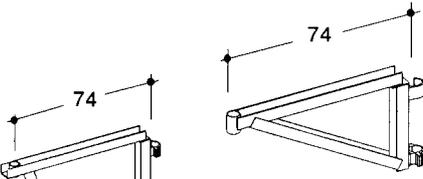
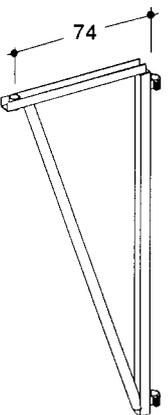
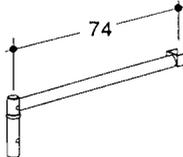
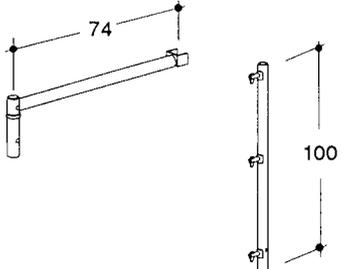
Components

	Description	Art. No.	Weight kg/item
	<p>Adjustment range</p> <p>B base jack 45/3.8 6.5 cm - 26.5 cm B base jack 70/3.8 6.5 cm - 50.0 cm ID jack base 38/52 8.0 cm - 30.0 cm To compensate for ground unevenness.</p>	<p>551 234 540 575 148 552</p>	<p>3.1 4.0 8.0</p>
	<p>Rigid base plate Like the base jack it also discharges the vertical loads into the ground.</p>	<p>428 533</p>	<p>1.4</p>
	<p>Toe board 400 Toe board 300 Toe board 250 Toe board 200 Toe board 150 Toe board 125 Secure the scaffold deck at plank level. Simply insert between the tubular posts of the vertical frames.</p>	<p>525 726 135 520 135 519 434 965 492 633 135 508</p>	<p>8.1 9.0 7.9 6.8 5.6 5.1</p>
	<p>Steel toe board 300/15 Steel toe board 250/15 Steel toe board 200/15 Steel toe board 150/15 Steel toe board 125/15 Sheet steel hollow box with aluminium-zinc coating. 15 cm high and 2 cm thick. Attach to the lowest gravity flip of the vertical frame.</p>	<p>531 437 531 448 531 459 531 460 531 470</p>	<p>9.0 6.7 5.5 4.3 3.7</p>
	<p>Transverse toe board 100 Steel toe board 100 Q To secure the ends of the scaffold deck.</p>	<p>132 927 534 279</p>	<p>4.6 2.5</p>
	<p>Horizontal frame plank 300 Horizontal frame plank 250 Horizontal frame plank 125 Two horizontal frame planks cover one horizontal frame.</p>	<p>132 548 132 537 138 924</p>	<p>20.5 17.3 8.8</p>
	<p>Plank retainer To secure the horizontal frame planks (attach at least one plank retainer per horizontal frame).</p>	<p>139 620</p>	<p>0.2</p>
	<p>Ladder passage plank 250 Used together with ladder 200 A. Secure open flap with retaining hook on guard rail.</p>	<p>143 090</p>	<p>18.5</p>

Components

	Description	Art. No.	Weight kg/item	
	<p>Ladder 200 A For interior ascent at a story height of 2.0 m (see page 19).</p>	136 318	9.8	
	<p>Ladder fastener The bottom ladder 200 A must always be attached with the ladder fastener to the bottom crossbar of the vertical frame.</p>	422 753	2.2	
	<p>Scaffold retainer 350 467 063 15.0 Scaffold retainer 250 467 041 10.8 Scaffold retainer 223 467 085 8.7 Scaffold retainer 180 116 820 7.0 Scaffold retainer 140 116 793 5.7 Scaffold retainer 110 116 808 4.1 Scaffold retainer 75 078 940 2.9 Scaffold retainer 45 078 939 1.9 48 mm dia. steel tube with 20 mm dia. hook. For tying the scaffolding. Connect with couplers to the vertical posts (see page 18). For couplers see page 10.</p>			
	<p>3.2 Additional components The additional components extend the range of applications and boost the efficiency of the scaffolding.</p>			
		<p>Passage frame 150 1.55m wide 409 340 37.6 Passage frame 100 1.01m wide 459 077 30.3 For erecting a pedestrian passage. Can be employed with Bosta 70 and Bosta 100. Passage frame 100 also usable as adaptor frame to build Bosta 70 onto Bosta 100 (see page 20).</p>		
		<p>Tubular joint complete (incl. bolt) 417 977 1.1 For passage frame 150. Tubular joint complete (incl. bolt) 462 921 0.8 For passage frame 100.</p>		
		<p>Are required when using passage frames 100 and 150 with Bosta 100 scaffold. Insert tubular joint (1 per passage frame) into appropriate tubular socket and secure with bolt).</p>		
		<p>B 100 adjustment post 132 401 13.4 Steel tube 48 mm dia. To compensate for major ground unevenness. Height-adjustable from 13 cm to 130 cm (see page 19).</p>		

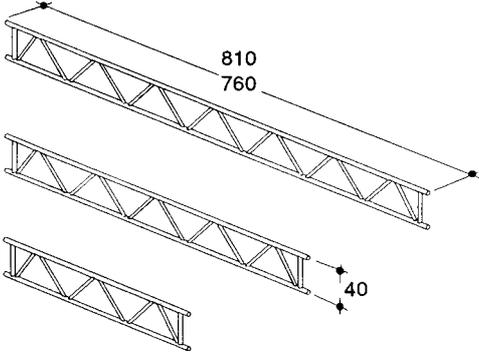
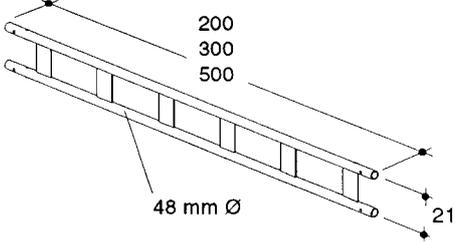
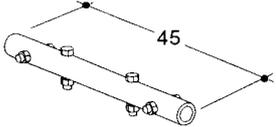
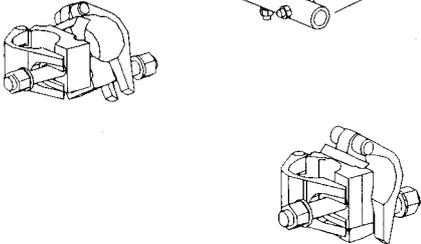
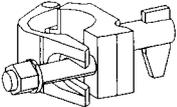
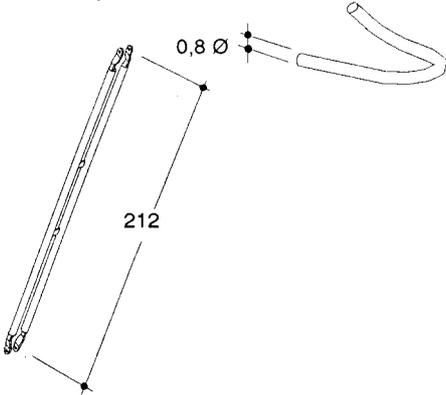
Components

	Description	Art. No.	Weight kg/item
	<p>Crossbar 100 (for bridging girders) To receive the vertical frame between two bridge girders (see page 26).</p>	135 850	6.9
	<p>Bridge girder 500 Bridge girder 750 Bottom chord tube dia. 48 mm, top chord U-section. For bridging 5.00 m or 7.50 m. Screw with welded-on half couplers to vertical frame. Only use together with Art. No. 135 850 crossbar. Both bridge girders are also compatible with Bosta 70 scaffolds (see page 26).</p>	135 780	59.2
	<p>Enlargement bracket 35 To widen the deck by 35 cm. Cover with a steel or timber plank (see page 23).</p>	402 599	6.1
	<p>Enlargement bracket 50 To widen the deck by 50 cm. The 50 cm wide aluminum plank is employed as surface (see page 21).</p>	402 989	6.7
	<p>Enlargement bracket 70 Enlargement bracket 70/200 To widen the deck by 70 cm with two 32 cm wide scaffold planks each (see page 23).</p>	424 226	8.8
	<p>Single railing post Can be used with enlargement bracket 35 or 70. Used to receive the side protection (see page 23 and 25).</p>	133 120	5.7
	<p>Bracket retainer 70 To prevent the planks from being lifted off the enlargement bracket 70 and 70/200 (see page 23).</p>	442 837	2.4
	<p>Railing post Can be inserted into the tubular joint of the vertical frame or, when used with enlargement bracket 100, it can be used with tubular joint Art. No. 462921 (see page 25).</p>	136 410	3.9

Components

	Description	Art. No.	Weight kg/item
	<p>Enlargement bracket 100</p>	462 689	16.8
	<p>Tubular joint complete (incl. bolt)</p>	462 921	0.8
	<p>To widen the scaffold by 1.0 m or for a system offset. To be attached at the top and bottom with half couplers. The tubular joint receives the railing post and the lifting retainer (see page 25).</p>		
	<p>Lifting retainer 100 (incl. bolts)</p>	434 932	3.5
	<p>Plank retainer 100</p>	462 656	4.7
	<p>To prevent the horizontal frame or scaffold planks from being lifted off the enlargement bracket 100 or vertical frame.</p>		
	<p>Crossbar 100 adjustable</p>	448 249	7.8
	<p>To receive the scaffold planks at each intermediate height. Is attached with the welded-on couplers.</p>		
	<p>Platform bracket 1.8 m</p>	427 907	23.4
	<p>Folding element for 1.65 m projecting shelter. Fasten at the top with bolt and nut M8 x 80 and at the bottom with a half coupler to the vertical frame. Use together with bracket post, 3 aluminium stages 50, approach plate, plank fastener, frame pin and bolt (see page 23).</p>		
	<p>Bracket post</p>	429 468	8.4
	<p>To produce shelters when used together with the platform bracket. Fasten with 12 mm dia frame pin.</p>		
	<p>Form the side wall with an aluminium stage 50 and a toe board.</p>		
	<p>Cover rail 300</p>	138 990	6.9
<p>Cover rail 250</p>	138 980	5.8	
<p>To cover the gap between the scaffold plank and the protective roof plank.</p>			
<p>Plank fastener</p>	427 664	5.0	
<p>Prevents the aluminium plank frames 50 from being lifted off. Slide the tube end onto pin of bracket post. Fasten half coupler to the vertical frame.</p>			
<p>12 mm dia. frame pin</p>	129 473	0.2	
<p>Secures the bracket post in the deck bracket.</p>			
<p>Bolt and nut M 8 x 80</p>	411 638	0.1	
<p>For fastening the deck bracket to the vertical frame.</p>			

Components

	Description	Art. No.	Weight kg/item	
	Lattice girder (steel) 760 Lattice girder (steel) 610 Lattice girder (steel) 510 Lattice girder (steel) 410 Lattice girder (steel) 310	444 310 444 300 444 295 444 284 444 273	73.0 58.0 49.0 39.0 30.0	
	Lattice girder (aluminium) 810 Lattice girder (aluminium) 610 Lattice girder (aluminium) 510 Lattice girder (aluminium) 410 Lattice girder (aluminium) 310	444 251 444 240 444 230 444 229 444 218	33.6 25.4 21.8 17.3 13.3	
	<p>System-independent lattice girders made of steel or aluminium with 48 mm dia. tube, system height 40 cm. Construction element for special structures, maximum permitted load dependent on the span.</p>			
		Double tube ledger 500 Double tube ledger 300 Double tube ledger 200	542 758 542 747 542 736	44.4 26.6 17.7
		<p>To be employed, for instance, as a cantilever beam, for triangular supporting towers, landings, etc.</p>		
		Connecting tube complete with 4 bolts	444 321	1.8
	<p>For connecting the lattice girders and double tube ledgers.</p>			
	Swivel coupler 48/48 w.a.f. 22 Swivel coupler 48/48 w.a.f. 19	002 525 801 146	1.4 1.4	
	Rigid coupler 48/48 w.a.f. 22 Rigid coupler 48/48 w.a.f. 19	002 514 801 135	1.2 1.2	
	<p>Maximum permitted load 9 kN.</p>			
	B half coupler 48 G	116 370	0.9	
	<p>To receive additional guard rails or diagonals at the vertical frames or scaffolding tubes.</p>			
	8 mm dia. frame pin	061 312	0.2	
	<p>To secure the bracket retainer 70 on the enlargement bracket 70.</p>			
	Diagonal brace 200 N	435 797	13.4	
	<p>Required for certain applications for bricklaying (see page 21). Fasten with 12 mm dia. frame pin in Bosta 100 vertical frame.</p>			

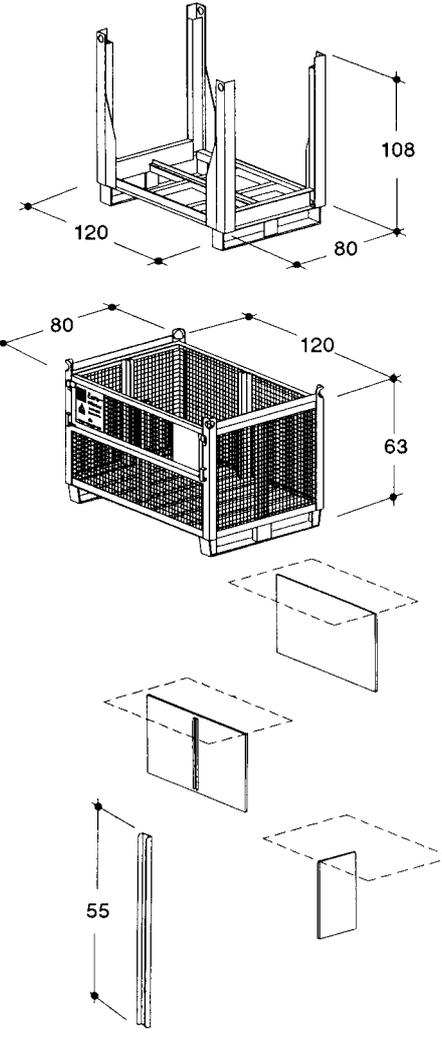
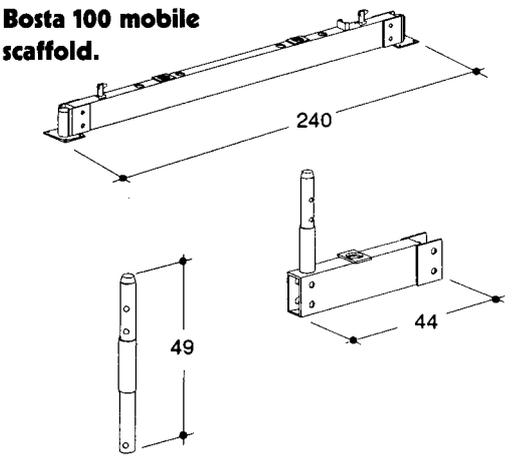
Components

	Description	Art. No.	Weight kg/item
<p>300 250 200 150 125</p> <p>100</p> <p>200</p> <p>101</p> <p>102</p> <p>25</p> <p>210</p> <p>250</p> <p>200 100</p> <p>250</p>	<p>Roofer's mesh guard 300 Roofer's mesh guard 250 Roofer's mesh guard 200 Roofer's mesh guard 150 Roofer's mesh guard 125</p>	<p>543 329 543 330 543 340 543 351 543 362</p>	<p>21.1 18.4 15.5 13.0 10.8</p>
	<p>Two roofer's mesh guards laid one above the other together with the roofer's safety post 100 or the vertical frame yield a roofer's protective wall according to German safety regulations. Replaces the three-piece side protection (see page 22).</p>		
	<p>Roofer's safety post 100 Roofer's safety post 100 Q</p> <p>For 2 m high roofer's protective wall. To receive two 1.0 m high safety grates put one above the other (see page 22).</p>	<p>542 666 544 687</p>	<p>13.7 20.7</p>
	<p>Weather-protection post</p> <p>For weather-resistant roofing of the top scaffold lift. Attachment by means of the built-on half couplers at the vertical frame and the railing post.</p>	<p>443 599</p>	<p>15.6</p>
	<p>Weather-protection extension incl. bolt</p> <p>Can be used for extending the roof width by 0.25 m and is bolted into the top of the weather-protection post.</p>	<p>443 636</p>	<p>1.0</p>
	<p>Wall curtain 2.5 x 2.0 Wall curtain 2.5 x 1.0 incl. fixbinders</p>	<p>063 712 080 160</p>	<p>3.5 2.5</p>
	<p>Plastic sliders are located on the horizontal sides. A series of slits along the circumference allows attachment with fixbinders.</p>		
	<p>Suspension eye Shackle Pulley</p> <p>With the aid of the enlargement brackets 35 or 70, parts weighing up to 50 kg can be hauled up by hand on a rope. Slot the suspension eye into the front tube connector on the enlargement brackets. Give the scaffold additional ties.</p>	<p>458 657 030 488 466 551</p>	<p>0.9 0.3 2.7</p>
	<p>Load carrier 250</p> <p>This can be used for lifting loads of up to 250 kg. Slot the load carrier from above into the 2 enlargement brackets 70/200.</p>	<p>458 646</p>	<p>18.8</p>

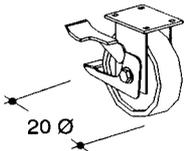
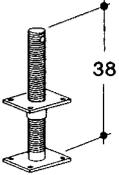
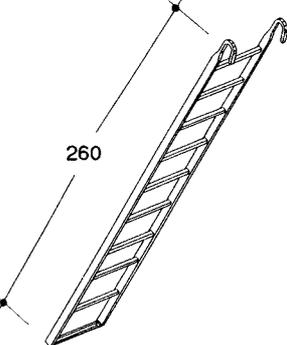
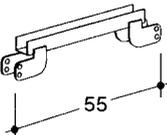
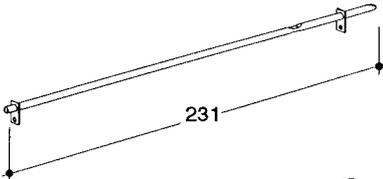
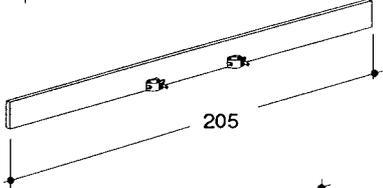
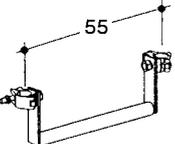
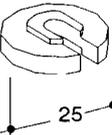
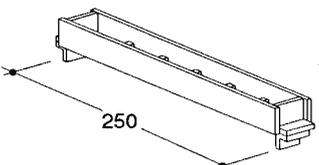
Components

	Description	Art. No.	Weight kg/item
3.3 Aluminium working plank Observe the instructions for erection and use of the aluminium working plank	Aluminium working plank 6.20 m Aluminium working plank 8.20 m The working planks are 60 cm wide. The hole grid for the post fastener is 50 cm. Maximum permitted load dependent on the span.	541 113 541 124	35.0 60.0
	Post fastener To secure the walkway posts. Push through the working plank and secure with wing nut Art. No. 509 618. Walkway post 100 Walkway post 200/620 Walkway post 200/820 To receive the three-part guard rails or roofer's mesh guard. Is fastened with post fastener at aluminium working plank.	549 999 548 950 549 911 549 039	1.3 5.9 9.5 10.2
3.4 Additional parts for aluminium stairway Observe the instructions for erection and use of the scaffold stairway.	Aluminium stairway 250 With landings for exterior ascent. Suitable for frame 200/70 from the Bosta 70 scaffold. Bay length: 2.50 m, Storey height: 2.0 m.	464 633	23.6
	Exterior railing Interior railing Steel hot-galvanized.. Stair post Guard rail 190 Secure the stair ascent on the top scaffold lift. Stairway access Bottom step which also receives first stairway. Hook over the lower transverse tube of the first vertical frame. Cover rail (at top) Cover rail (at bottom) To bridge the gaps between the top or bottom stairway landings and the scaffold planks.	464 655 464 644 547 669 547 658 467 501 467 670 467 626	16.9 11.9 3.6 3.3 8.7 2.1 1.6

Components

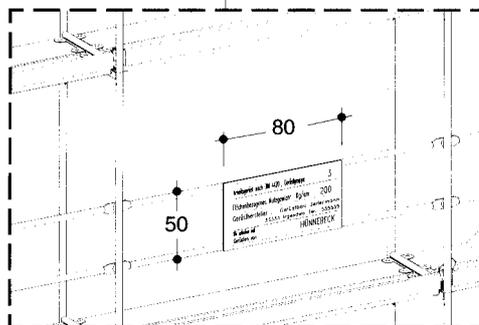
	Description	Art. No.	Weight kg/item
<p>3.5 Pallets and boxes</p> 	<p>Euro stacking frame L = 120 cm, W = 80 cm, H = 108 cm. Load capacity: 1.5 t For storing and transporting scaffold parts. Can be combined with the Euro lattice box.</p> <p>Euro lattice box Hot-dip galvanized. L = 120 cm, W = 80 cm, H = 63 cm. Load capacity: 1.2 t. For storing and transporting small parts. Equipped with an access flap and suspension eyes.</p> <p>Chipboard 110 Partition to create 2 compartments in the lattice box.</p> <p>Chipboard complete Partition with guide rails for creating 3 or 4 compartments in the lattice box.</p> <p>Chipboard 34 A half partition. Used with the chipboard, complete, to create 3 or 4 compartments in the lattice box.</p> <p>Set of U-rails (10 pcs. per pack) With these U-rails the boxes can be subdivided into 3 or 4 compartments when used together with partitions made on site from own material (with bolts and instructions).</p>	<p>In preparation</p> <p>548 480</p> <p>550 023</p> <p>548 490</p> <p>550 034</p> <p>549 988</p>	<p></p> <p>87.8</p> <p>6.3</p> <p>7.4</p> <p>2.0</p> <p>11.2</p>
<p>3.6 Additional components for Bosta 100 mobile scaffold Observe instructions for erection and use for Bosta 100 mobile scaffold.</p> 	<p>Castor wheel bar 70/100 Base bar for the center mobile scaffolds. With connections for castor wheels.</p> <p>Castor wheel bar extension 70/100 Can be bolted onto the castor wheel bar on one or both sides in order to build center, one-side or double mobile scaffolds.</p> <p>Adapter B 100 To receive the Bosta 100 vertical frame. Insert into castor wheel bar and secure with enclosed bolt.</p>	<p>415 740</p> <p>422 411</p> <p>418 114</p>	<p>27.0</p> <p>9.0</p> <p>1.9</p>

Components

	Description	Art. No.	Weight kg/item
	<p>Castor wheel 200/10 (Load bearing capacity P = 10.7 kN)</p>	481 780	4.8
	<p>Bolt and nut M 10 x 30 For connecting the castor wheel or the roller jacks to the castor wheel bar.</p>	553 347	0.1
	<p>Jacks for rollers (Adjustable from 7.4 to 27.4 cm) To compensate for differences in surface height.</p>	025 186	4.9
	<p>Initial ladder Lowest ladder in the mobile scaffold. It is attached with the aid of the ladder fastener to the lower transverse member of the vertical frame (for ladder attachment see page 7).</p>	543 042	12.2
	<p>Intermediate member 50 This component connects the inner vertical frame posts on double scaffolds and receives one plank. The intermediate member 50 is held in position with 2 frame pins (Art. No. 061 312)</p>	423 195	3.7
	<p>Transverse guard rail 250 To secure the top scaffold deck at the ends when mobile double scaffolds are used.</p>	429 766	5.0
	<p>Transverse toe board 250 To secure the top scaffold deck at the ends when mobile double scaffolds are used. Is secured at the center vertical frame posts by means of the attached half couplers.</p>	429 799	7.5
	<p>Plank retainer 50 Secures the plank on an intermediate member 50, when mobile double scaffolds are used.</p>	423 184	3.8
	<p>Safety weight For weighting the B100 mobile scaffold.</p>	481139	12.5
	<p>Weight box This weight box for receiving the safety weights must be made at the construction site (see instructions for use, B100 mobile scaffold).</p>	561 539	40.3

Components

	Description	Art. No.	Weight kg/item								
3.7 Scaffold identification tarpaulins											
<table border="1"> <tr> <td>Arbeitsgerüst nach DIN 4420 , Gerüstgruppe</td> <td>3</td> </tr> <tr> <td>Flächenbezogenes Nutzgewicht Kg/qm</td> <td>200</td> </tr> <tr> <td colspan="2">Gerüstersteller:</td> </tr> <tr> <td>Wir arbeiten mit Gerüsten von</td> <td>HUNNEBECK</td> </tr> </table>	Arbeitsgerüst nach DIN 4420 , Gerüstgruppe	3	Flächenbezogenes Nutzgewicht Kg/qm	200	Gerüstersteller:		Wir arbeiten mit Gerüsten von	HUNNEBECK	Scaffold identification tarpaulin for class 3 scaffold	544 665	0.36
Arbeitsgerüst nach DIN 4420 , Gerüstgruppe	3										
Flächenbezogenes Nutzgewicht Kg/qm	200										
Gerüstersteller:											
Wir arbeiten mit Gerüsten von	HUNNEBECK										
	Scaffold identification tarpaulin for class 3 scaffold with additional company logo	544 779	0.36								
<table border="1"> <tr> <td>Arbeitsgerüst nach DIN 4420 , Gerüstgruppe</td> <td>4</td> </tr> <tr> <td>Flächenbezogenes Nutzgewicht Kg/qm</td> <td>300</td> </tr> <tr> <td colspan="2">Gerüstersteller:</td> </tr> <tr> <td>Wir arbeiten mit Gerüsten von</td> <td>HUNNEBECK</td> </tr> </table>	Arbeitsgerüst nach DIN 4420 , Gerüstgruppe	4	Flächenbezogenes Nutzgewicht Kg/qm	300	Gerüstersteller:		Wir arbeiten mit Gerüsten von	HUNNEBECK	Scaffold identification tarpaulin for class 4 scaffold	544 654	0.36
Arbeitsgerüst nach DIN 4420 , Gerüstgruppe	4										
Flächenbezogenes Nutzgewicht Kg/qm	300										
Gerüstersteller:											
Wir arbeiten mit Gerüsten von	HUNNEBECK										
	Scaffold identification tarpaulin for class 4 scaffold with additional company logo	544 768	0.36								
<table border="1"> <tr> <td>Arbeitsgerüst nach DIN 4420 , Gerüstgruppe</td> <td></td> </tr> <tr> <td>Flächenbezogenes Nutzgewicht Kg/qm</td> <td></td> </tr> <tr> <td colspan="2">Gerüstersteller:</td> </tr> <tr> <td>Wir arbeiten mit Gerüsten von</td> <td>HUNNEBECK</td> </tr> </table>	Arbeitsgerüst nach DIN 4420 , Gerüstgruppe		Flächenbezogenes Nutzgewicht Kg/qm		Gerüstersteller:		Wir arbeiten mit Gerüsten von	HUNNEBECK	Scaffold identification tarpaulin, neutral	544 643	0.36
Arbeitsgerüst nach DIN 4420 , Gerüstgruppe											
Flächenbezogenes Nutzgewicht Kg/qm											
Gerüstersteller:											
Wir arbeiten mit Gerüsten von	HUNNEBECK										
	Scaffold identification tarpaulin with all details about scaffold group, payload and scaffold manufacturer	544 757	0.36								
	<p>All identification tarpaulins are equipped at the top and bottom longitudinal sides with loops for inserting the guard rails.</p>										



4. Planning and preparations for erection

4.1 Planning:

The Hünnebeck Bosta 100 scaffold is approved by „Institut für Bautechnik, Berlin“ for a maximum height of 60 m. Approval must be available at the site for inspection.

The Bosta 100 scaffold complies with DIN 4420, Group III, and, with the horizontal frame 250 and 125, it complies with Group IV. The permitted deck load is 3 kN/m² (300 kp/m²) and, with the previously-mentioned horizontal frames, 6 kN/m² (600 kp/m²) on one scaffold lift.

4.2 Preparation for erection:

- The base jacks or base plates should be set up on a distributor plank.
- Check for missing parts - (see calculation of materials, page 19).
- Do not use damaged scaffold components.
- Check for safe discharge of tying loads into the building being scaffolded.
- For scaffold distances over 30 cm from the building, an additional back guard, knee guard and toe board must be installed on the working deck on the scaffold side facing the building.

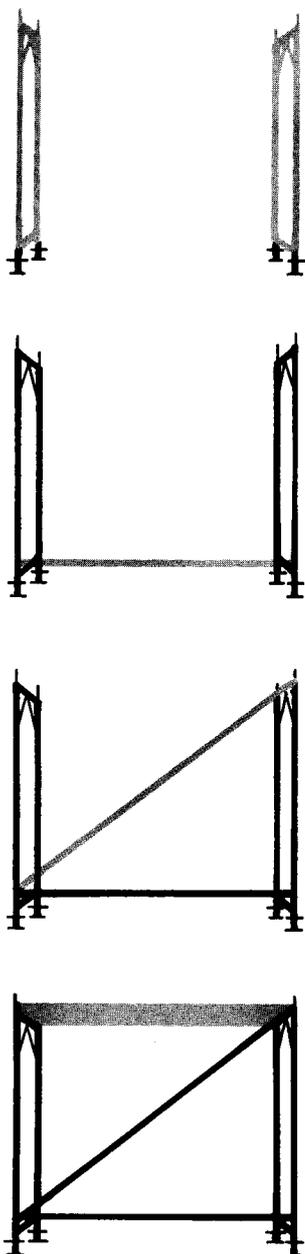


Fig. 66

Erection of the facade scaffold Bosta 100

1 Base jacks and vertical frames

Set up the base jacks. The distances depend on the length of the guard rails. Make a rough adjustment of the base jack height. Insert the two first vertical frames.

2 Guard rails

For longitudinal stiffening slide the guard rails over the lower gravity flips of the front vertical frame post.

3 Diagonals

Stiffen the first scaffold bay with a diagonal. Hang the hook of the diagonal at the top into the inner hole of the vertical frame, the lower end of the diagonal over the lower gravity flip of the next vertical frame.

4 Horizontal frames

Lay the steel horizontal frames, the timber or steel planks onto the U-sections of the vertical frames.

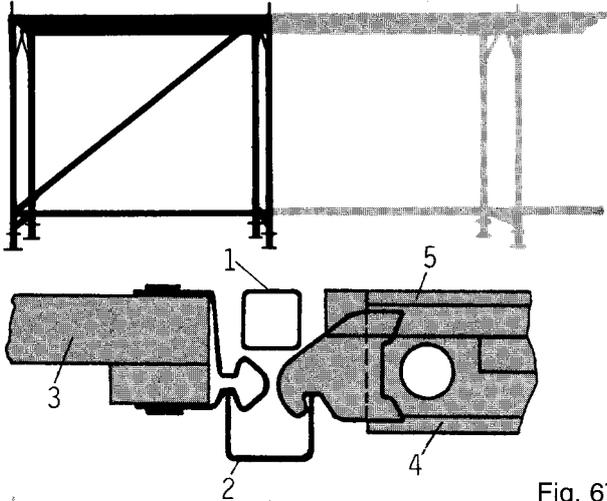


Fig. 67

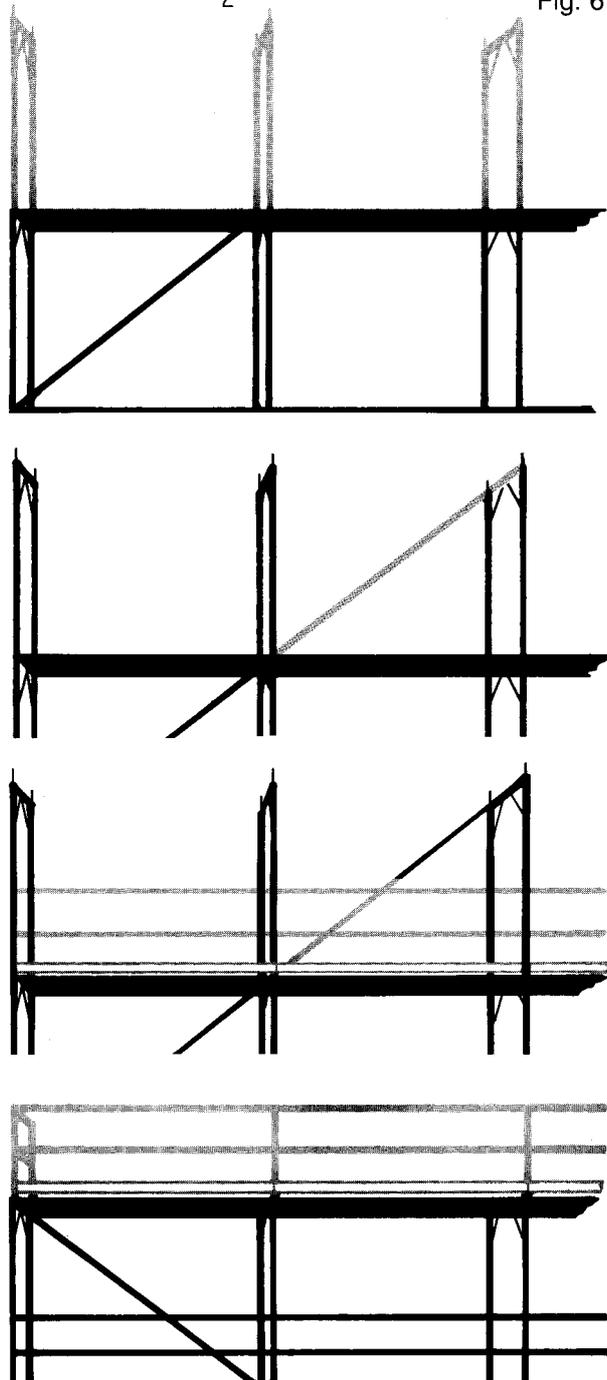
5 Assembly of the next scaffold bays

Assemble the next scaffold bays in the same manner. Then align the individual scaffold elements with a spirit level.

Scaffold level without uneven surfaces!

- 1 Lower crossbar of vertical frame
- 2 Upper crossbar of vertical frame (U-section)
- 3 Plank, 50 cm wide
- 4 Horizontal frame
- 5 Timber plank

Detail showing how the timber plank and the horizontal frame are fitted



6 Height extension of the first scaffold lift

Slide the vertical frames over the tubular joints of the lower vertical frames.

7 Diagonals

By fitting the diagonals, the vertical frames are automatically rendered plumb, thus eliminating an additional alignment with a spirit level.

8 Guard rails

Slide the guard rails over the gravity flips and lay the toe boards between the tubular posts.

9 Railing posts

To form the end of the top scaffold lift, the railing posts are inserted into the vertical frames. Use double railing posts at the ends to receive the transverse toe boards. Secure the posts with frame pins against lift-off.

5. Erection

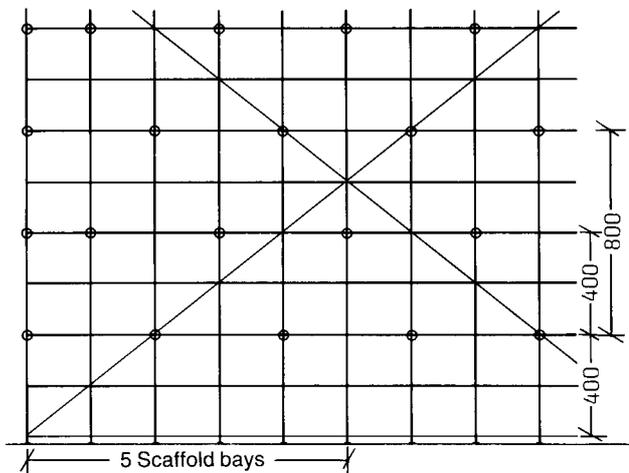


Fig. 68

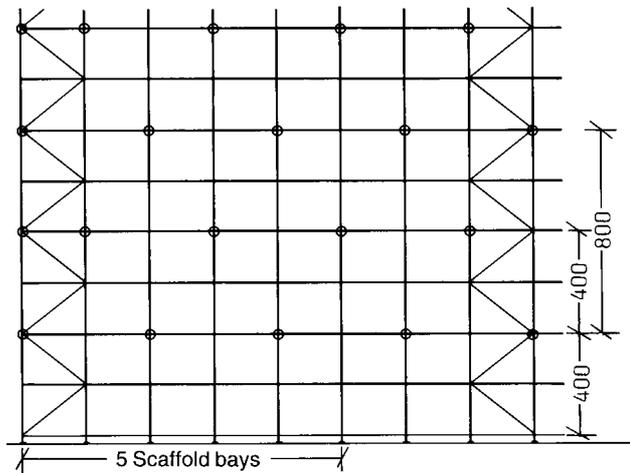


Fig. 69

5.1 Arrangement of diagonals

- a) Continuous intersecting lines (fig. 68) or
- b) zigzag arrangement with a single bay (fig. 69).

For both arrangements, a maximum of 5 scaffold bays may be stiffened by a single 42.2 mm dia. diagonal.

Important:

When using the old 33.7 mm dia. diagonals - (production until 1976) - 2 diagonals each are to be arranged in opposite directions for every 5 scaffold bays. The use of auxiliary equipment can make it necessary to install additional diagonals (see separate advice).

5.2 Tying points

Tie every inner line of posts at a vertical distance of 8.00 m maximum, each line of end posts at a distance of 4.00 m max. Always arrange the tying points of the inner line posts staggered by half the distance between tying points.

Connect the scaffold retainer with 2 couplers in the immediate vicinity of the scaffold junction. Alternatively, tying can be effected with the aid of 2 scaffold retainers 75 under an angle of 90°.

Important:

The installation of auxiliary equipment can make additional tying points necessary - (see approval).

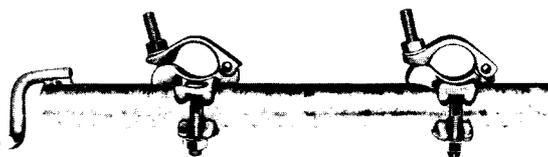


Fig. 70

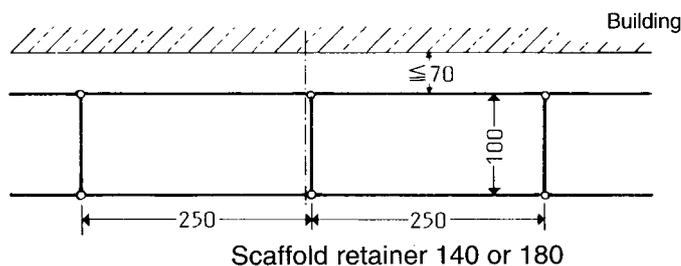


Fig. 71

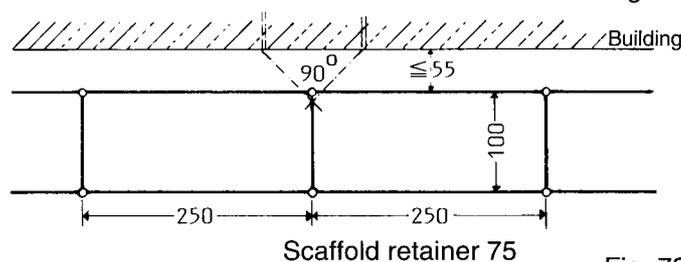


Fig. 72

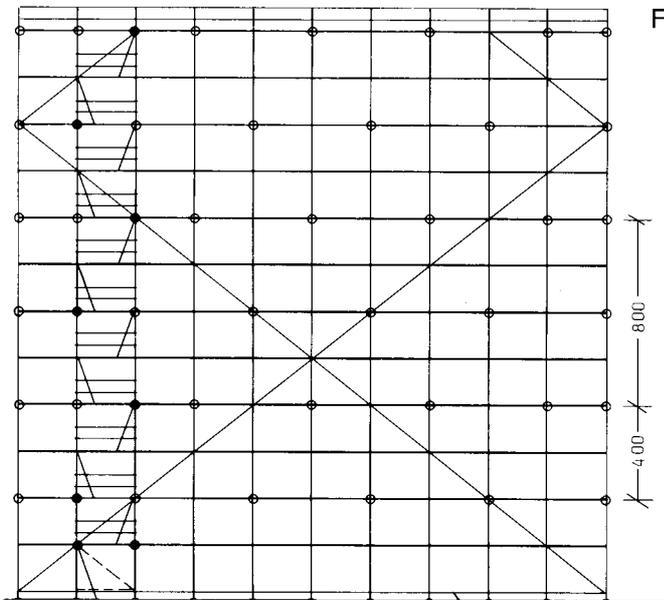
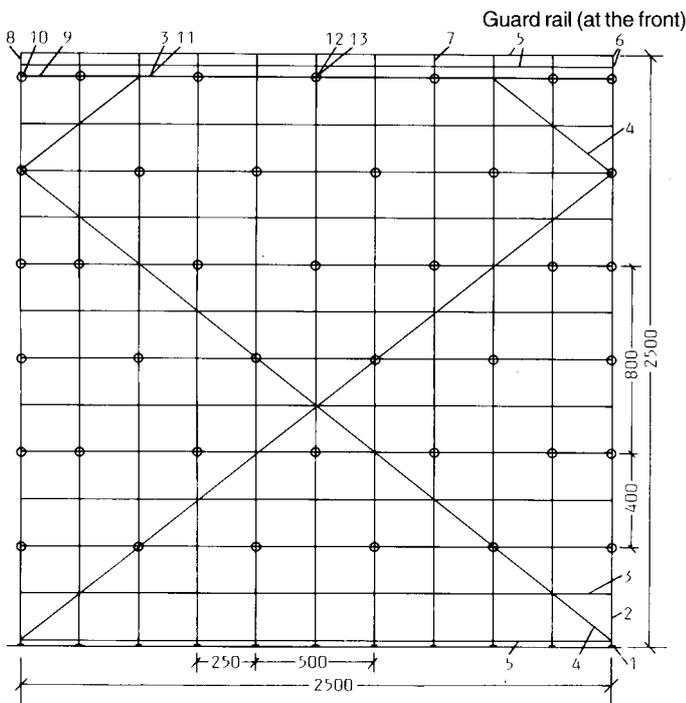


Fig. 73 **5.3 Interior ladder passage**

Attach the ladder passage between two lines of vertical frames. Secure the open flap of the ladder passage plank on the hook of the guard rail. If there is no continuous guard rail in the scaffold lift, install one within the ladder passage.

○ Standard tying points when using horizontal frames and planks, 50 cm wide.

● Additional tying points for ladder passage.
 — Additional diagonal and guard rail at the wall-side for a scaffold height ≥ 20 m.



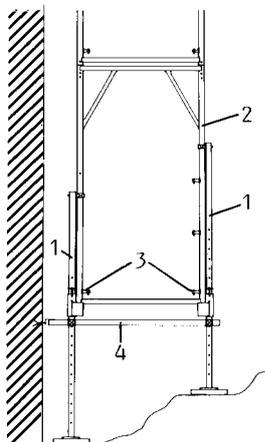
5.4 Calculating the materials

Sample calculation of materials

Material/pieces

1	22	Base jack
2	132	Vertical frame 200
3	120	Horizontal frame 250
4	24	Diagonal 200
5	30	Guard rail 250
6	4	Transverse guard rail
7	9	Railing post
8	2	Double railing post
9	10	Toe board 250
10	2	Transverse toe board
11	20	Horizontal frame plank 250
12	39	Scaffold retainer 40
13	78	Rigid coupler 48/48

Fig. 74



- 1 Adjustment post
- 2 Vertical frame
- 3 Guard rail at lower gravity flips
- 4 Scaffold retainer

Fig. 75

5.5 Adjustment posts:

The adjustment post is adjustable from 13 cm to 130 cm in 4 cm steps.

Insert vertical frame into guides and fasten with bolt. Connect at the top with the half coupler to the vertical frame.

Tie each line of posts - as illustrated - to the building. Stiffen every 3rd scaffold bay with diagonals consisting of 48 mm dia. scaffold tubes.

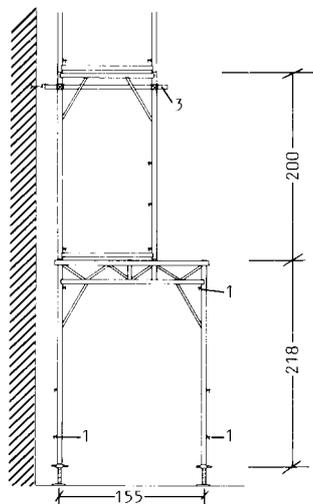


Fig. 76

- 1 Guard rail
- 2 Diagonal
- 3 Tying point

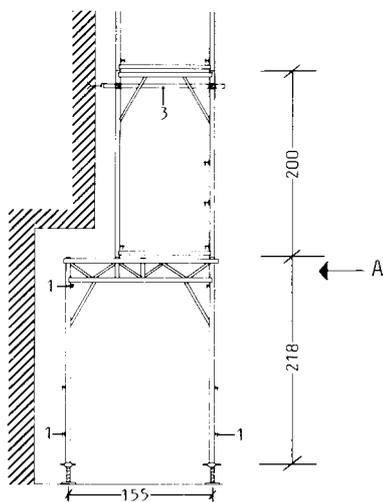


Fig. 77

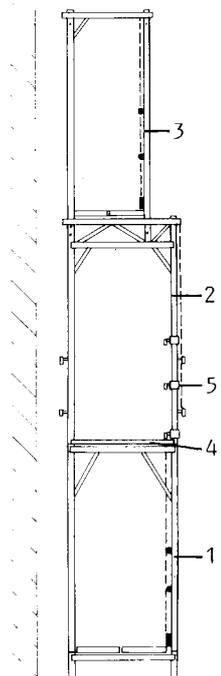


Fig. 79

5.6 Passage frames:

The passage frame (post distance 1.55 m) permits the installation of a pedestrians' passage.

Stiffen the frames in longitudinal direction with guard rails as illustrated in fig. 76 and 77.

Each 5th bottom scaffold bay (see fig. 78) is equipped with diagonals at the front and rear. Tie each scaffold post at the level of the passage frame or at the top edge of the first vertical frame.

If further auxiliary parts are fitted, the maximum construction height may be limited (ask for height table).

View A

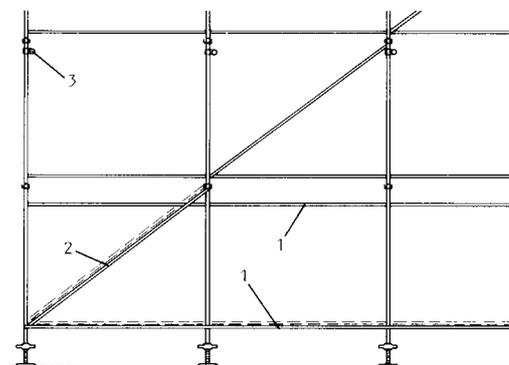


Fig. 78

Passage frame 100:

Can also be employed as adaptor frame to build the Bosta 70 onto the Bosta 100.

To secure the planks, screw the lift-off retainer 100 (Art. No. 434 932) onto the passage frame and, for the necessary side protection, screw on three half couplers 48 G (Art. No. 116370) with the gravity flip pointing inwards.

- 1 Bosta 100
- 2 Passage frame 100
- 3 Bosta 70
- 4 Lift-off retainer 100
- 5 Half coupler 48 G

5.7 Enlargement deck 50:

If horizontal frames 250 are installed onto the vertical frames, the area-related substitute load-bearing capacity for one scaffold deck is 6 kN/m² (600 kp/m²). When installing timber or steel planks, the load-bearing capacity is 3 kN/m² (300 kp/m²) for one scaffold deck.

The load-bearing capacity within the region of the bracket area must not exceed 3 kN/m² for a maximum bay length of 2.50 m, irrespective of whether the enlargement brackets are attached at deck level or height-staggered. The maximum scaffold heights and the prescribed ties for cyclic bricklaying can be seen from the approval.

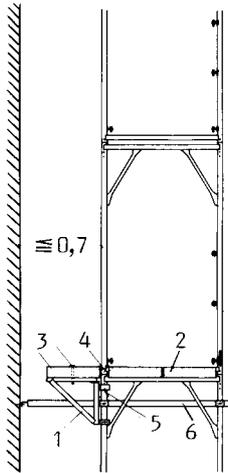


Fig. 80

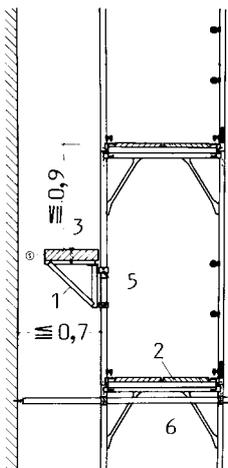


Fig. 81

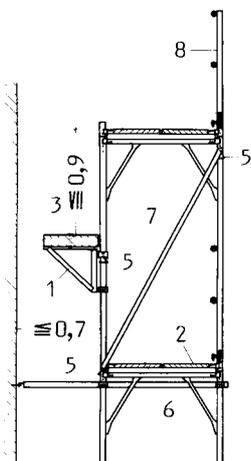


Fig. 82

- 1 Enlargement bracket 50
- 2 Horizontal frame or planks 50 or 32 or steel planks 32 cm wide
- 3 Planks 50 cm wide
- 4 Cover rail
- 5 Bolt and nut M 12 x 90
- 6 Scaffold tying point
- 7 Diagonal brace 200
- 8 Railing post

Enlargement bracket 50

The enlargement bracket 50 is fastened to the vertical frame with the coupler welded to the bracket (torque 5 kNcm) and is height-adjustable. Planks are laid onto the brackets. Frame pins are not required for load-distribution, and they are used exclusively to align the brackets more quickly. The planks are prevented from being lifted off by securing bars attached to the enlargement brackets.

Bricklaying (version 2)

For bricklaying, position the enlargement bracket 50 with the claw on the tubular post and tighten the coupler. Otherwise as above (see page 22).

Bricklaying (version 1) with built-in diagonal brace 200 N

Diagonal braces only have to be installed if the enlargement deck is suspended, there is no tying point above it and the scaffold height exceeds 8 m (see page 22).

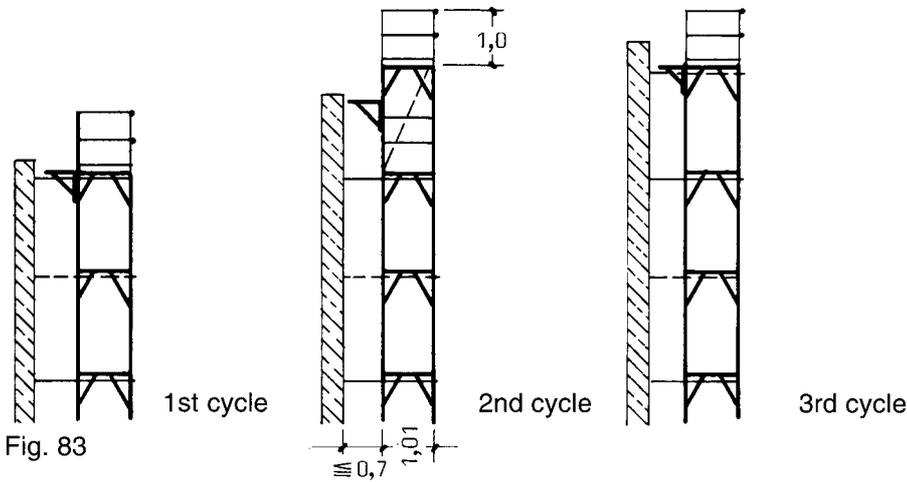


Fig. 83

Bricklaying (version 1)

Working deck towards the top of the scaffold (see page 21).

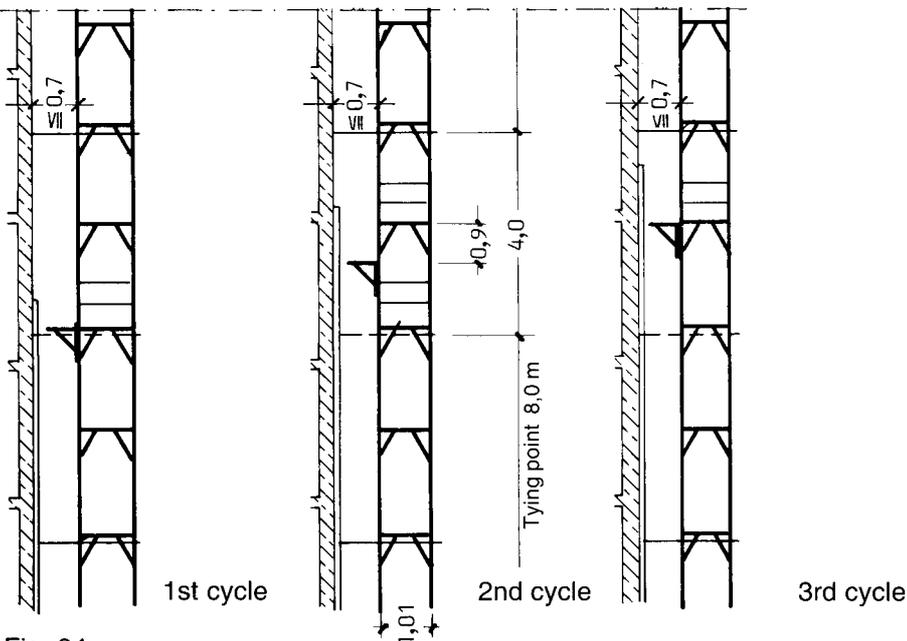


Fig. 84

Bricklaying (version 2)

Working deck in the middle of the scaffold (see page 21).

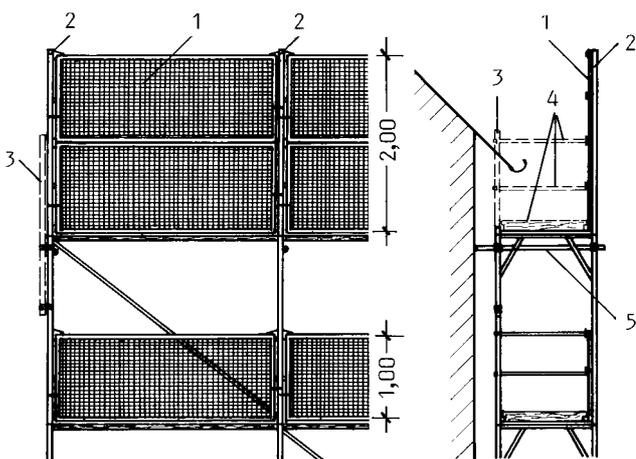


Fig. 85

5.7.1 Roofer's protection installation

Roofer's mesh guards can be employed together with the roofer's safety post, the vertical frame or the railing post. The parts are hooked over the gravity flips and secured by bars.

1. Roofer's mesh guard at roofer's safety post.
 $h = 2.00 \text{ m}$, mount 2 roofer's mesh guards one above the other on the inside of the scaffold. Close the ends with approx. 2 m long scaffold tubes, swivel couplers, transverse guard rails and transverse toe boards. Continuous top scaffold tying points.

2. Hook roofer's mesh guard onto vertical frame or railing post. $h = 1.00 \text{ m}$, on the inside of the scaffold over gravity flips; replaces the 3-piece side protection elements.

3. Roofer's mesh guard at vertical frame. $h = 2.00 \text{ m}$, fasten 2 roofer's mesh guards on the outside of the scaffold with half couplers 48 G (2 pieces per vertical frame) onto each other.

- 1 Roofer's mesh guard
- 2 Roofer's safety post 100
- 3 Scaffold tube 2.00 m
- 4 Transverse guard rail 100 and transverse toe board 100 or transverse side protection element 100
- 5 Scaffold tying point

5.8 Enlargement brackets 35 or 70

The enlargement brackets 35 or 70 from the Bosta 70 program can also be attached to the Bosta 100 scaffold. Deck with timber or steel planks, 32 cm wide. Attachment of the brackets at the scaffold is identical with the procedure for enlargement bracket 50.

Max. load-bearing capacity of enlargement bracket 35 3 kN/m²
 Max. load-bearing capacity of enlargement bracket 70 2 kN/m²

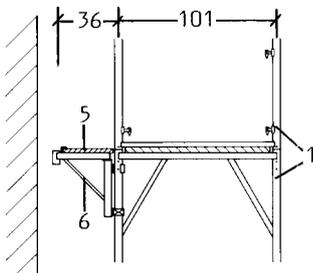


Fig. 86

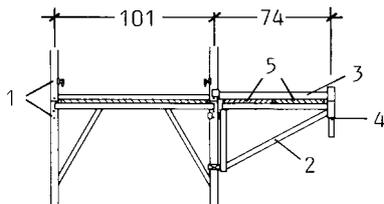


Fig. 87

- | | |
|--------------------------|--|
| 1 Vertical frame | 4 Frame pin |
| 2 Enlargement bracket 70 | 5 Steel planks or timber planks,
32 cm wide |
| 3 Bracket retainer 70 | 6 Enlargement bracket 35 |

5.9 Protective roof 0.6 m (protective scaffold)

The protective roof bracket consists of an enlargement bracket 50 and a bracket post. Secure the bracket post with frame pin to prevent it falling out. Near the bracket post, lay the plank 250/50 with a toe board on it. Otherwise erection is the same as for the enlargement bracket 50. Without item 4, the protective roof bracket can also be employed as a protective scaffold (see page 24).

- | | |
|--------------------------|---------------|
| 1 Enlargement bracket 50 | 5 Guard rail |
| 2 Bracket post | 5a Guard rail |
| 3 Plank 250/50 | 6 Frame pin |
| 4 Toe board | 7 Cover rail |

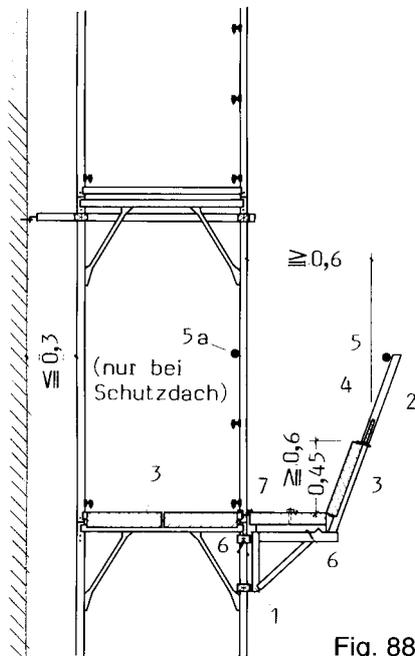


Fig. 88

5.10 Protective roof 1.80 m or supply platform

Secure the deck bracket with frame pin on top of the vertical frame and connect at the bottom with half coupler. Slide the bracket post into the deck bracket and secure with frame pin.

Lay plank and close gap with cover rail. Secure the planks with plank retainer against lift-off.

Tie the scaffold in the area of the protective roof at the height of the suspension and supporting points (see page 24).

- | | |
|------------------|---------------------|
| 1 Deck bracket | 6 Frame pin |
| 2 Bracket post | 7 Guard rail |
| 3 Plank retainer | 8 Scaffold retainer |
| 4 Plank 250/50 | 9 Toe board |
| 5 Cover rail | |

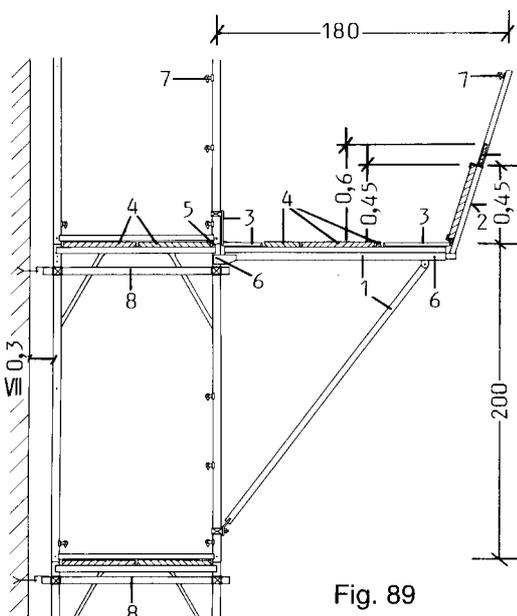
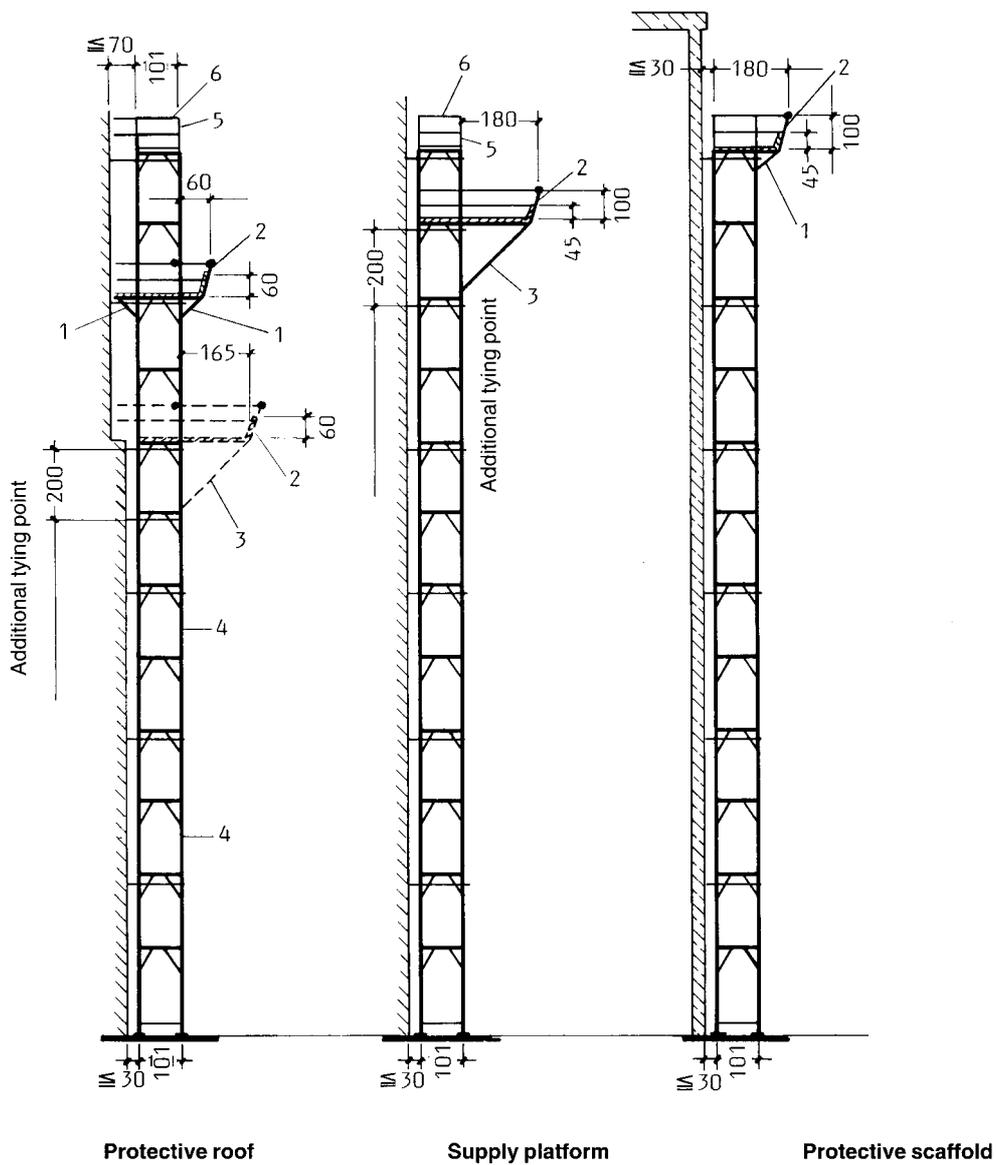


Fig. 89

5.11 Protective scaffold 1.80 m

The scaffold is erected in the same way as the protective roof 1.80 m. The toe board is not required for this purpose (see page 23).



- | | |
|--------------------------|--------------------------------------|
| 1 Enlargement bracket 50 | 4 Vertical frame |
| 2 Bracket post | 5 Railing post (double railing post) |
| 3 Deck bracket | 6 Transverse guard rail |

5.12 Assembly with adjustment post

If adjustment posts are used that are extracted more than 50 cm below the first vertical frames, fit tube and coupler bracing as shown in fig. 91.

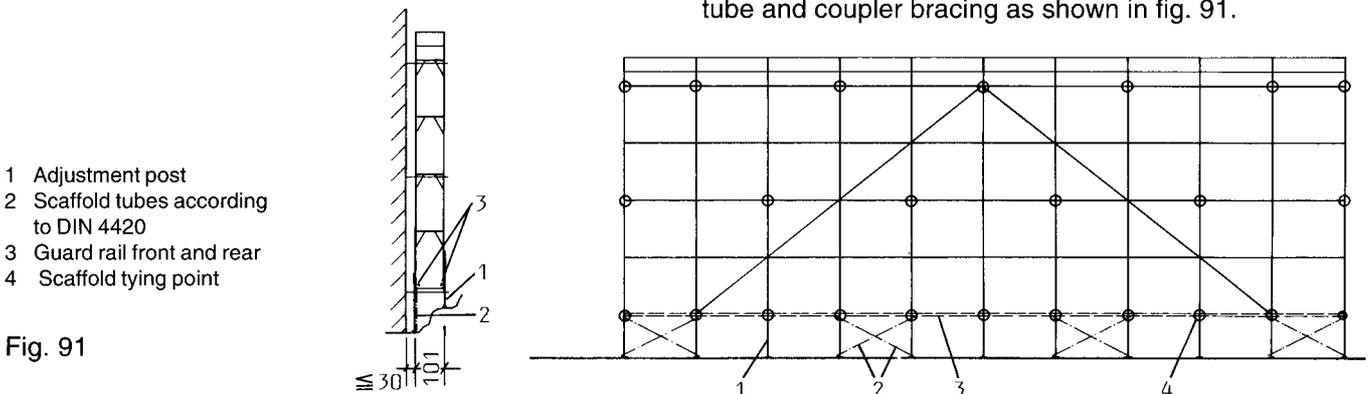


Fig. 91

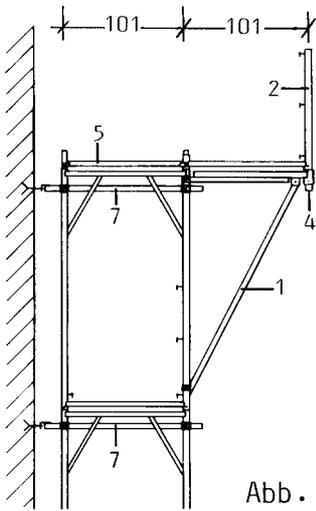


Abb. 92

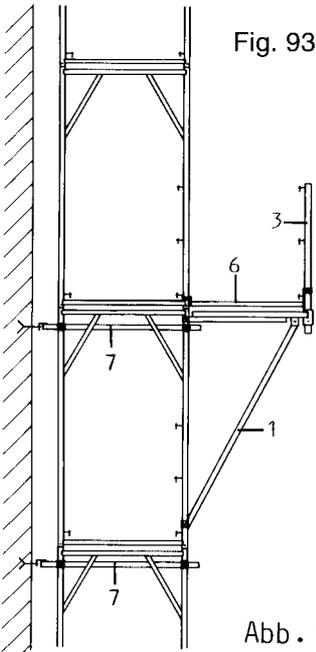


Fig. 93

Abb. 93

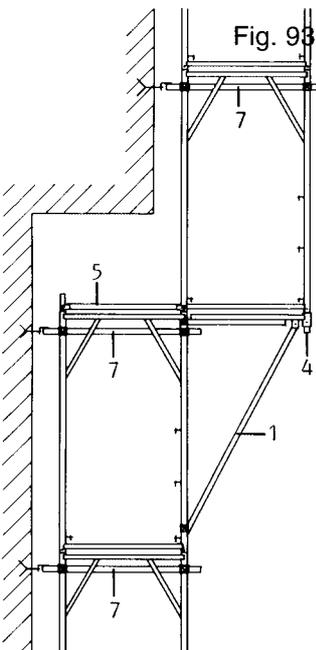


Fig. 94

5.13 Enlargement bracket 100

- 1) Enlargement brackets at the level of the top scaffold lift:

Attach the enlargement brackets 100 at the top and bottom with the welded-on half couplers at the vertical frame. The planks on the enlargement brackets are secured against lift-off by the railing post 100 and on the vertical frames by the lift-off retainer 100. Beforehand, install complete tubular joint into vertical bracket.

Tie the scaffold at bracket level on each vertical frame as illustrated.

The load-bearing capacity in the bracket area must not exceed 3 kN/m².

- 2) Enlargement brackets between the scaffold decks:

Single railing posts are inserted into the outside of the enlargement brackets to receive the side protection element. The plank retainer 100 secures the horizontal frame or plank against lift-off.

Tying and load-bearing capacity as above.

1	Enlargement bracket 100	Art. No. 462 689
2	Railing post 100	Art. No. 129 392
3	Single railing post	Art. No. 133 120
4	Tubular joint complete	Art. No. 462 921
5	Lifting retainer 100 (incl. bolts)	Art. No. 434 932
6	Plank retainer 100	Art. No. 462 656
7	Scaffold tying point	

- 3) Enlargement bracket 100 as a system offset:

Install the complete tubular joint into the enlargement bracket. The horizontal frames or planks at offset level are secured by lifting retainer 100. The scaffold is tied as illustrated at three levels one above the other and continuously on each vertical frame. Above and below, tie as usual.

The maximum scaffold height above the brackets must not exceed 10 m (5 scaffold lifts); the scaffold lift then has a load-bearing capacity of 3 kN/m².

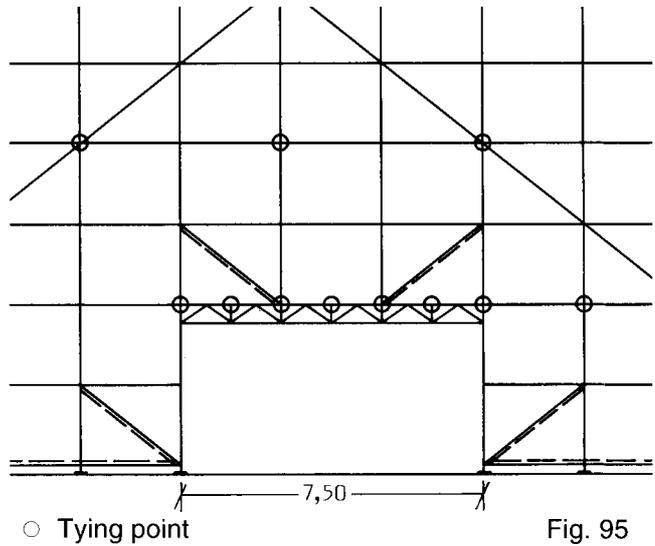
5.15 Bridge girders

Bridge girder 750:

(with crossbars Art. No. 135 850)

The bridge consists of two bridge girders 750 and two crossbars.

Screw on the bridge girders between the vertical frames with the half couplers. Put on crossbars and insert vertical frames. The scaffold bays next to and above the bridge girder must be braced with diagonals at the front and rear (as illustrated). Further diagonals and tying points may be required; see also approval.



Bridge girder 500:

(with crossbar Art. No. 135 850)

The bridge consists of two bridge girders 500 and one crossbar.

Assembly as for bridge girder 750.

Note:

Bridge girder 750 (Art. No. 135 770) and bridge girder 500 (Art. No. 135 780) can also be employed in the Bosta 70 scaffold.

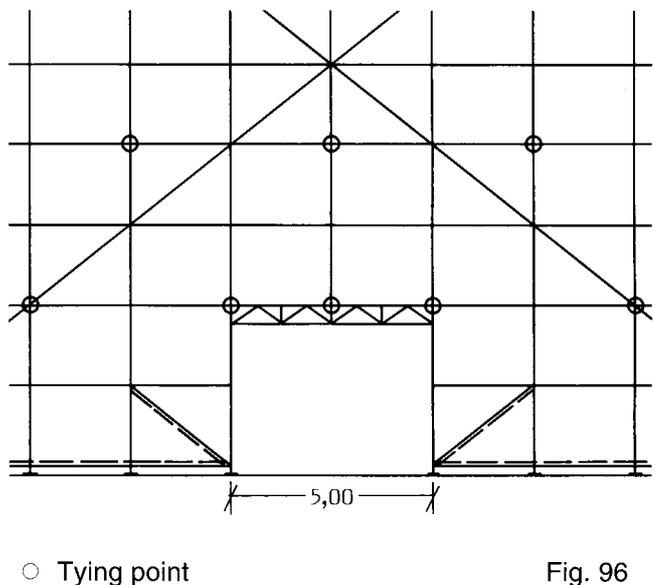
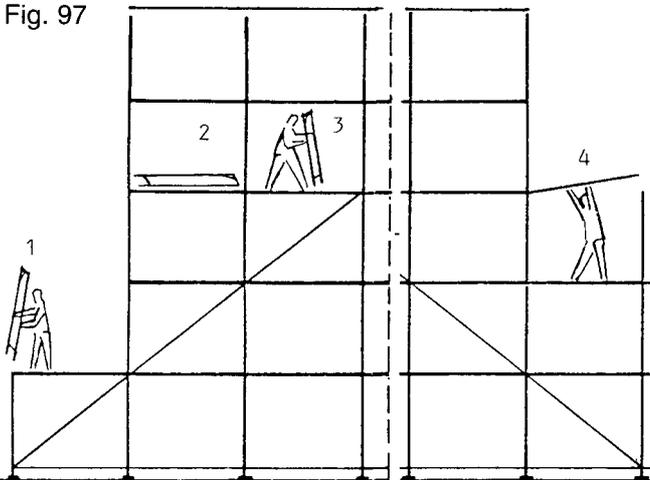


Fig. 97



5.16 Erection and dismantling of end bays

- 1 Dismantling of free scaffold section
- 2 Disassembled scaffold parts
- 3 Transferring the scaffold parts
- 4 Installation of the new scaffold section

The design of the vertical frames and planks makes it possible to vertically dismantle the end bays of a facade scaffold. For this purpose, the planks can be taken out of the bearing profile by lowering the outer end. To this end it is necessary to press the outer vertical frame slightly out of the true.

Erect the assembled scaffold parts as above but in the reverse order.

5.17 Permitted vertical load V (kN) per frame post for vertical frame 200

(No local deck load as stress and no planking are considered here.)

Vertical tying point distance	decisive vertical section	No wind	Wind (on scaffold)														
			HR 250			HR 300			RT 250			RT 300			VB 250		
			q [kN/m ²]*			q [kN/m ²]*			q [kN/m ²]*			q [kN/m ²]*			q [kN/m ²]*		
			0.5	0.8	1.1	0.5	0.8	1.1	0.5	0.8	1.1	0.5	0.8	1.1	0.5	0.8	1.1
8.0 m staggered	N	30.2	30.2	27.4	24.3	29.5	25.8	22.1	30.2	29.0	26.5	30.2	28.1	25.3	30.2	29.9	27.7
	F (50)	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3
4.0 m not staggered	N	30.2	30.2	30.1	28.0	30.2	29.3	26.9	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2
	F (50)	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3
4.0 m staggered	N	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2
	F (50)	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3
2.0 m	N	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2
	F (26,5)	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3
	F (50)	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3

* Wind pressure depending on scaffold elevation.

- N = Normal scaffold section (standard lift)
- F (26.5) = Base area of base jack 26.5 (see page 6)
- F (50) = Base area with base jack 50 (see page 6)
- HR = Steel horizontal frame (see page 4)
- VB = Plank (see page 4)

**5.18 Examples
of permitted load concentration with
horizontal framee 250/100**

The horizontal frame 250/100 is designed for an area-related substitute load of 6 kN/m² (600 kp/m²) (see approval).

This is equivalent to the loading of the horizontal frame 250/100 by concentrated individual loads of (see illustration), e.g.:

- S = Pack of bricks = 2 x 1.8 kN = 3.6 kN
- M = Mortar bucket = 1 x 1.9 kN = 1.9 kN
- Worker's load = 2 x 1.0 kN = 2.0 kN
- 7.5 kN (750 kp)

**Example 1:
Load concentration at bay center**

**Example 2:
Load concentration at bearing point**

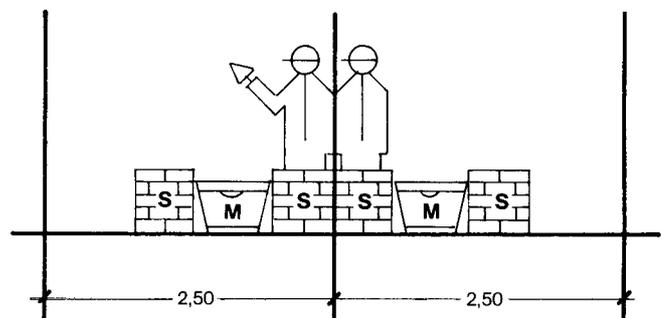
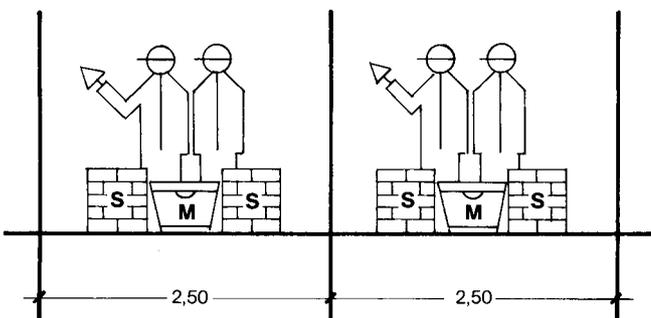


Fig. 98 **View of elevation**

View of elevation

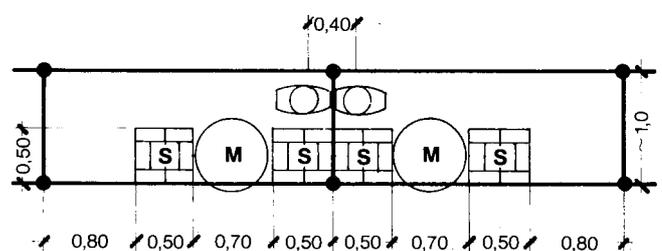
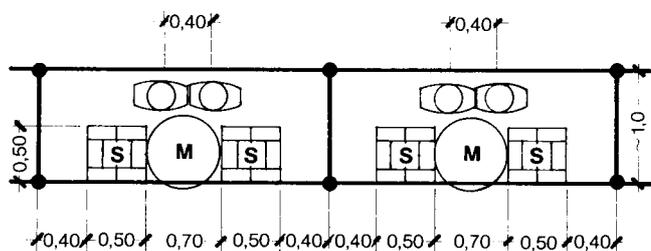


Fig. 99 **Top view**

Top view

6. Bosta 100 mobile scaffold

**See separate documentation:
Instructions for erection and use
Bosta 100 mobile scaffold**

Fig. 101

Mobile scaffolds can be built with the components listed on the pages 13 and 14 and the standard Bosta 100 scaffold parts.

The designs with ladder passages are certified by the social insurance association for occupational accidents. The locations of the parts are illustrated in the exploded drawings on pages 30 and 31.

The assembly of the weight box is described in detail in the separate instructions for the erection and use of the Bosta 100 mobile scaffold.

Castor wheel bar 70/100 with and without extension

- 1 Castor wheel bar 70/100
- 2 Castor wheel bar extension 70/100
- 3 Adaptor B 100
- 4 Castor wheel
- 5 Bolt and nut M10 x 30
- 6 Vertical frame B 100

Castor wheel without extension for centered scaffolds

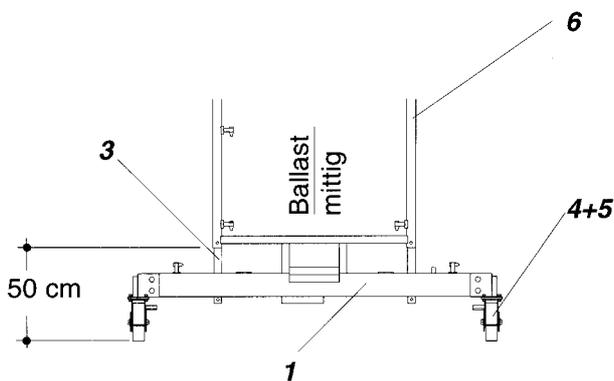


Fig. 100

Castor wheel bar with one-sided extension for one-sided scaffolds

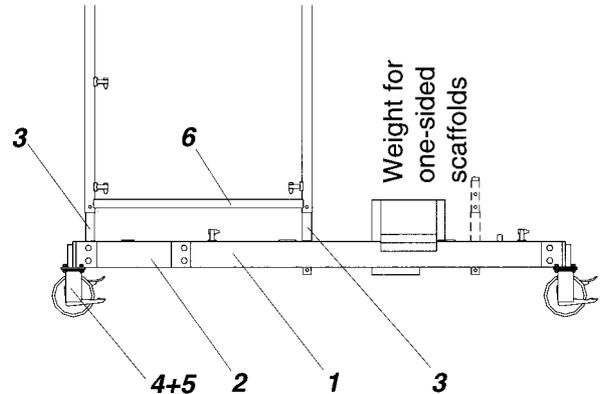
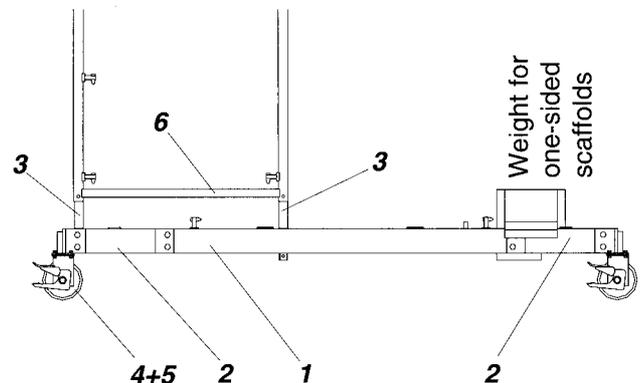


Fig. 102

Castor wheel bar with two-sided extension for one-sided scaffolds



Castor wheel bar with two-sided extension for centered scaffolds and for double scaffolds

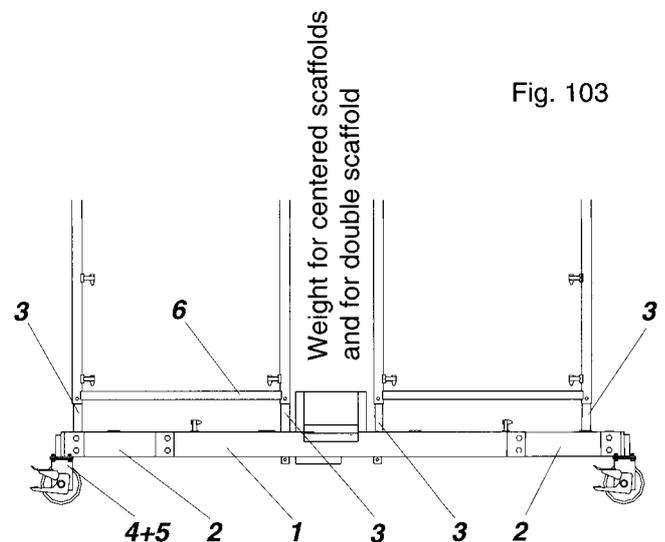
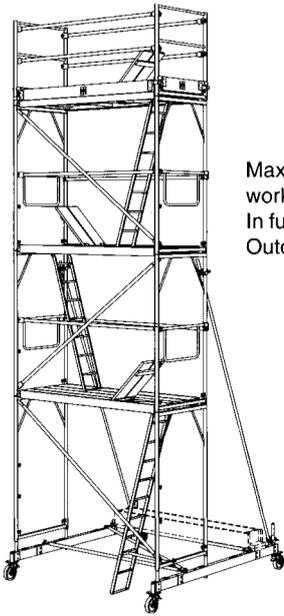


Fig. 103

6.1 One-sided scaffold - type I

(as illustrated)



Max. erection height of the top working platform:
 In fully enclosed rooms = 12.50 m
 Outdoors = 9.45 m

Fig. 104

The max. permitted live load is 150 kg/m² (GG2) according to DIN 4420

The GS sign has been applied for.

The safety regulations of DIN 4422 and UVV are to be observed.

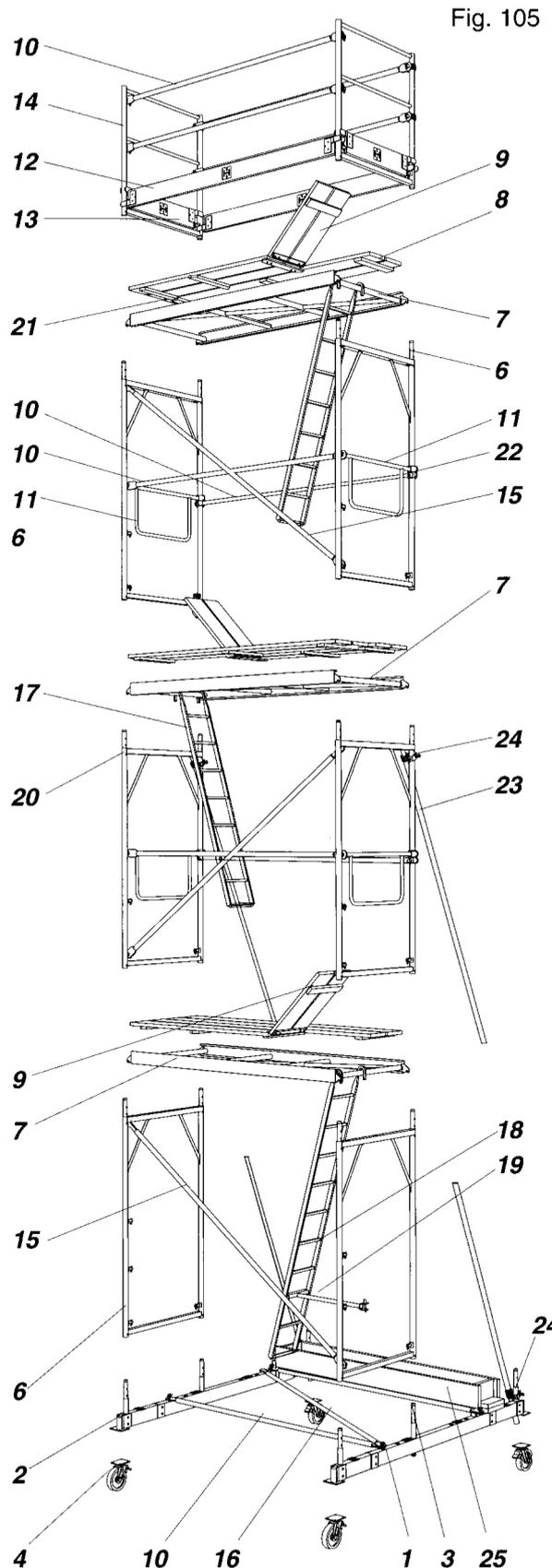


Fig. 105

6.2 Centered scaffold - type II

(not illustrated)

The erection sequence for one-sided and centered mobile scaffolds is identical.

- 1 Castor wheel bar 70/100
- 2 Castor wheel bar extension 70/100
- 3 Adaptor B 100
- 4 Castor wheel 200/10
- 5 Jack for roller, optional
- 6 B vertical frame 200/100
- 7 B horizontal frame 250/100-6
- 8 Horizontal frame plank
- 9 Ladder passage plank 250
- 10 Guard rail 250
- 11 Transverse double railing 100
- 12 Toe board 250
- 13 Transverse toe board 100
- 14 Double railing post 100 Q
- 15 Diagonal 200
- 16 Diagonal 150
- 17 Ladder 200 A
- 18 Initial ladder
- 19 Ladder fastener
- 20 Frame pin
- 21 Plank retainer
- 22 Half coupler 48 G
- 23 Scaffold tube (400/600)
- 24 Swivel coupler 48/48
- 25 Weight box

The B jack for roller can be optionally employed. Secure with 4 bolts and nuts M10 x 30.

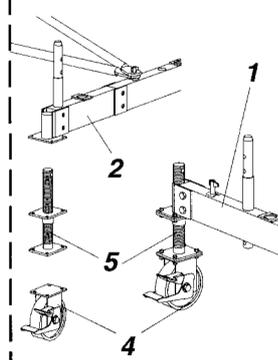


Fig. 106

6.3 Double scaffold - type III

(as illustrated)

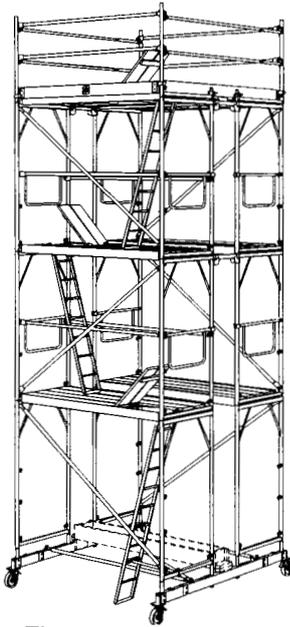


Fig. 107

Max. erection height of top working platform:
 In fully enclosed rooms = 12.50 m
 Outdoors = 9.45 m

- 1 Castor wheel bar 70/100
- 2 Castor wheel bar extension 70/100
- 3 Adaptor B 100
- 4 Castor wheel 200/10
- 5 Jack for roller, optional
- 6 B vertical frame 200/100
- 7 B horizontal frame 250/100-6
- 8 Horizontal frame plank
- 9 Ladder passage plank 250
- 10 Guard rail 250
- 11 Transverse double railing 100
- 12 Toe board 250
- 14a Geländerpfosten 100
- 15 Diagonal 200
- 16 Diagonal 150
- 17 Ladder 200 A
- 18 Initial ladder
- 19 Ladder fastener
- 20 Frame pin
- 21 Plank retainer
- 22 Half coupler 48 G
- 25 Weight box
- 26 Intermediate member 50
- 27 Transverse guard rail 250
- 28 Transverse toe board 250
- 29 Cover rail
- 30 Aluminum stage 50/250

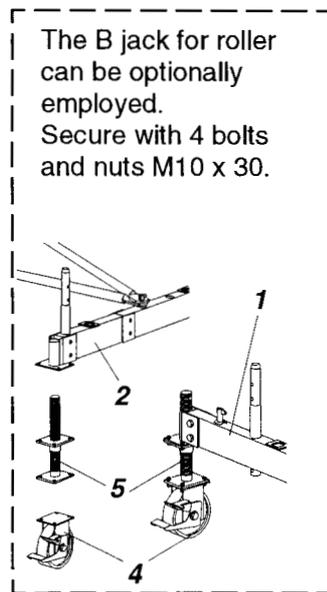
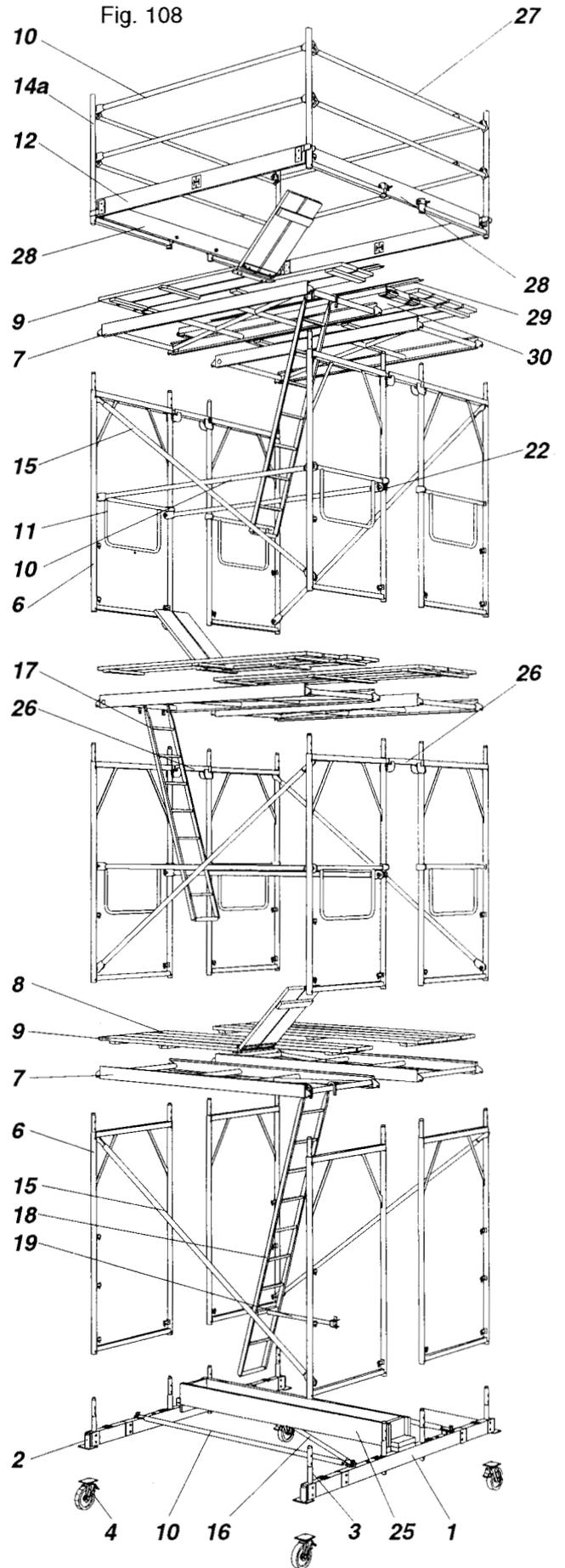


Fig. 109



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