

# ATORN® Shelf for plug-in rack, load capacity per bay 100 kg

## Single-row, with preassembled frame

**Application:**

Universal shelving system for all storage applications, quick set-up or conversion through simple plugging of the shelves, can be assembled without tools.

**Execution:**

- Galvanised plug-in rack, pre-assembled frames, simple and quick set-up and conversion without tools
- Shelves height-adjustable in increments of 25 mm
- Shelves with a 50 mm perforation grid to accommodate accessories
- Rear diagonal strut for longitudinal stiffening
- Comprehensive accessories including compartment dividers, partition grid available on request
- Planning dimensions: Basic shelf = nominal length + 56 mm, nominal depth + 36 mm

**Advantage:**

- Quick plug-in assembly without tools

**Delivery:**

Delivery contents basic unit: 2 frames, 4 shelves  
Delivery contents add-on unit: 1 frames, 4 shelves

**Notes:**

- Secure shelves with a height/depth ratio of  $\geq 5:1$  against tipping (anchor to wall or base).
- The loads indicated per shelf and per bay apply for evenly distributed loads
- Bay load indications apply to shelving rows with 3 or more bays
- Top shelf load-bearing capacity max. 200 kg



Ref. no. 001 in combination with 002

Height (mm)	Nominal depth (mm)	Nominal length (mm)	Number of shelves (PCS)	Load-carrying capacity per shelf (kg)	Load-carrying capacity per field (kg)	Surface Version	Galvanised Shelving unit	Galvanised Add-on shelving
							50164... Ident. No.	50164... Ident. No.
2000	400	1000	4	100	900	001	●	002 ●

Prod. Gr. 587

# ATORN®

## Set of two shelves for ATORN plug-in rack, load capacity 100 kg

**Execution:**

- With a 50 mm perforation grid to accommodate accessories
- Edge height 40 mm
- Incl. shelf holders

Depth (mm)	Length (mm)	Load-carrying capacity (kg)	Surface	Galvanised
				50164... Ident. No.
400	1000	100	003	●

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## shelf plug-in rack, packaged – ideal for shipment by parcel service

### design:

- with disassembled frame
- rapid plug-in assembly without tools
- load capacities per bay 100 kg, 150 kg and 230 kg
- shelf edge height 40 mm
- shelves in 50-mm grid, perforated for mounting of accessories
- shelves, height-adjustable in 25 mm grid

### advantages:

- racks packaged in handy cardboard boxes, ideal for shipping via parcel service
- additional protection of product
- easy handling as product can be stacked
- less expensive than shelving with pre-assembled frame
- rapid plug-in assembly without tools

- flexible adaptation to stored goods using grid dimensions

### planning dimensions:

basic unit length = nominal length + 56 mm, add-on shelf length = nominal length + 6 mm,

basic shelf depth = nominal depth + 36 mm, add-on shelf depth = nominal depth + 36 mm

### safety instructions:

- shelves with a height/depth ratio of  $\geq 5:1$  against tipping (wall anchoring or base anchoring).
- the indicated load capacities per bay apply for evenly distributed load
- load capacity per bay indications apply to shelving rows with 3 or more bays
- top shelf load capacity max. 200 kg



dispatched from the supplier's warehouse within 2 days



5-year guarantee





## Shelf plug-in rack – single-row, with disassembled frame

Galvanised or RAL 7035, light grey, powder-coated

### Design:

- With disassembled frame
- Rapid plug-in assembly without tools
- Load capacity per bay 100 kg, 150 kg and 230 kg
- Shelf edge height 40 mm
- Shelves in 50 mm grid, perforated for mounting accessories
- Shelves height adjustable in 25 mm grid
- Note: Depth bracing always galvanised even with coated frame

### Advantages:

- Less expensive than shelving with pre-assembled frame
- Rapid plug-in assembly without tools
- Variable adaptation to stored goods via grid dimensions



Figure: 1x basic shelf + 2x add-on shelf  
Delivery with disassembled frame – easy plug-in assembly

### Planning dimensions:

Basic unit length = nominal length + 56 mm, add-on shelf length = nominal length + 6 mm,

Basic unit depth = nominal depth + 36 mm, add-on shelf depth = nominal depth + 36 mm

### Safety instructions:

- Secure shelves with a height/depth ratio of  $\geq 5:1$  against tipping (wall anchoring or base anchoring).
- The indicated load capacities per bay apply for evenly distributed load
- Load capacity per bay indications apply to shelving rows with 3 or more bays
- Top shelf load capacity max. 200 kg



dispatched from the supplier's warehouse within 3 days



5-year guarantee



## Shelf for META CLIP plug-in rack – load capacity per bay 100 kg

Height (mm)	Nominal depth (mm)	Nominal length (mm)	Number of shelves (PCS)	Load-carrying capacity per shelf (kg)	Load-carrying capacity per field (kg)	Surface	Galvanised		Galvanised		Plastic-coated		Plastic-coated	
						Version	Shelving unit		Add-on shelving		Shelving unit		Add-on shelving	
							50167... Ident. No.		50167... Ident. No.		50167... Ident. No.		50167... Ident. No.	
2000	300	1000	5	100	1100	001	•	•	017	•	002	•	018	•
2000	400	1000	5	100	1100	003	•	•	019	•	004	•	020	•
2000	500	1000	5	100	1100	005	•	•	021	•	006	•	022	•
2000	600	1000	5	100	1100	007	•	•	023	•	008	•	024	•
2500	300	1000	6	100	1650	009	•	•	025	•	010	•	026	•
2500	400	1000	6	100	1650	011	•	•	027	•	012	•	028	•
2500	500	1000	6	100	1650	013	•	•	029	•	014	•	030	•
2500	600	1000	6	100	1650	015	•	•	031	•	016	•	032	•

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### Additional shelf, load capacity 100 kg

Depth (mm)	Length (mm)	Load-carrying capacity (kg)	Surface	Galvanised		Powder-coated	
				Shelving unit		Add-on shelving	
				50167... Ident. No.		50167... Ident. No.	
300	1000	100	033	•	•	034	•
400	1000	100	035	•	•	036	•
500	1000	100	037	•	•	038	•
600	1000	100	039	•	•	040	•

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## Shelf for META CLIP plug-in rack – load capacity per bay 150 kg

Height (mm)	Nominal depth (mm)	Nominal length (mm)	Number of shelves (PCS)	Load-carrying capacity per shelf (kg)	Load-carrying capacity per field (kg)	Surface	Galvanised		Galvanised		Plastic-coated		Plastic-coated	
						Version	Shelving unit		Add-on shelving		Shelving unit		Add-on shelving	
							50167... Ident. No.		50167... Ident. No.		50167... Ident. No.		50167... Ident. No.	
2000	300	1000	5	150	1100	041	•	•	057	•	042	•	058	•
2000	400	1000	5	150	1100	043	•	•	059	•	044	•	060	•
2000	500	1000	5	150	1100	045	•	•	061	•	046	•	062	•

						Surface Version	Galvanised Shelving unit		Galvanised Add-on shelving		Plastic-coated Shelving unit		Plastic-coated Add-on shelving	
Height (mm)	Nominal depth (mm)	Nominal length (mm)	Number of shelves (PCS)	Load-carrying capacity per shelf (kg)	Load-carrying capacity per field (kg)	50167... Ident. No.	50167... Ident. No.		50167... Ident. No.		50167... Ident. No.		50167... Ident. No.	
2000	600	1000	5	150	1100	047	● <sup>+</sup>	063	● <sup>+</sup>	048	● <sup>+</sup>	064	● <sup>+</sup>	
2500	300	1000	6	150	1650	049	● <sup>+</sup>	065	● <sup>+</sup>	050	● <sup>+</sup>	066	● <sup>+</sup>	
2500	400	1000	6	150	1650	051	● <sup>+</sup>	067	● <sup>+</sup>	052	● <sup>+</sup>	068	● <sup>+</sup>	
2500	500	1000	6	150	1650	053	● <sup>+</sup>	069	● <sup>+</sup>	054	● <sup>+</sup>	070	● <sup>+</sup>	
2500	600	1000	6	150	1650	055	● <sup>+</sup>	071	● <sup>+</sup>	056	● <sup>+</sup>	072	● <sup>+</sup>	

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**Additional shelf, load capacity 150 kg****Execution:**

- With a 50 mm perforation grid to accommodate accessories

- Edge height 40 mm

- Incl. shelf holders

			Surface	Galvanised		Powder-coated	
Depth (mm)	Length (mm)	Load-carrying capacity (kg)	50167... Ident. No.		50167... Ident. No.		
300	1000	150	073	●	074	●	
400	1000	150	075	●	076	●	+
500	1000	150	077	●	078	●	
600	1000	150	079	●	080	●	

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**Shelf for META CLIP plug-in rack – load capacity per bay 230 kg**

						Surface Version		Galvanised Shelving unit		Galvanised Add-on shelving		Plastic-coated Shelving unit		Plastic-coated Add-on shelving	
Height (mm)	Nominal depth (mm)	Nominal length (mm)	Number of shelves (PCS)	Load-carrying capacity per shelf (kg)	Load-carrying capacity per field (kg)	50167... Ident. No.		50167... Ident. No.		50167... Ident. No.		50167... Ident. No.		50167... Ident. No.	
2000	300	1000	5	230	1100	081	● <sup>+</sup>	101	● <sup>+</sup>	082	● <sup>+</sup>	102	● <sup>+</sup>		
2000	400	1000	5	230	1100	083	● <sup>+</sup>	103	● <sup>+</sup>	084	● <sup>+</sup>	104	● <sup>+</sup>		
2000	500	1000	5	230	1100	085	● <sup>+</sup>	105	● <sup>+</sup>	086	● <sup>+</sup>	106	● <sup>+</sup>		
2000	600	1000	5	230	1100	087	● <sup>+</sup>	107	● <sup>+</sup>	088	● <sup>+</sup>	108	● <sup>+</sup>		
2000	800	1000	5	230	1100	089	● <sup>+</sup>	109	● <sup>+</sup>	090	● <sup>+</sup>	110	● <sup>+</sup>		
2500	300	1000	6	230	1650	091	● <sup>+</sup>	111	● <sup>+</sup>	092	● <sup>+</sup>	112	● <sup>+</sup>		
2500	400	1000	6	230	1650	093	● <sup>+</sup>	113	● <sup>+</sup>	094	● <sup>+</sup>	114	● <sup>+</sup>		
2500	500	1000	6	230	1650	095	● <sup>+</sup>	115	● <sup>+</sup>	096	● <sup>+</sup>	116	● <sup>+</sup>		
2500	600	1000	6	230	1650	097	● <sup>+</sup>	117	● <sup>+</sup>	098	● <sup>+</sup>	118	● <sup>+</sup>		
2500	800	1000	6	230	1650	099	● <sup>+</sup>	119	● <sup>+</sup>	100	● <sup>+</sup>	120	● <sup>+</sup>		

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**Additional shelf, load capacity 230 kg****Execution:**

- With a 50 mm perforation grid to accommodate accessories

- Edge height 40 mm

- Incl. shelf holders

			Surface	Galvanised	Powder-coated	
Depth (mm)	Length (mm)	Load-carrying capacity (kg)	50167... Ident. No.		50167... Ident. No.	
300	1000	230	121	●	122	●
400	1000	230	123	●	124	●
500	1000	230	125	●	126	●
600	1000	230	127	●	128	●
800	1000	230	129	●	130	● <sup>+</sup>

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- Shelves with 330 kg capacity available on request.





## shelf plug-in rack – single-row, with pre-assembled frame

Galvanised or in RAL 7035, light grey, powder-coated

### Design:

- With pre-assembled frame = clinched frame
- Rapid plug-in assembly without tools
- Load capacity per bay 100 kg, 150 kg and 230 kg
- Shelf edge height 40 mm
- Shelves in 50 mm grid, perforated for mounting accessories
- Shelves height adjustable in 25 mm grid
- With diagonal bracing attached at back

### Advantages:

- Rapid plug-in assembly without tools
- Variable adaptation to stored goods through grid dimensions



Figure: 1x basic shelf + 1x add-on shelf  
Delivery with clinched frame

- Comprehensive range of accessories

### Planning dimensions:

Basic shelf = nominal length + 56 mm, add-on shelf = nominal length + 6 mm,  
basic shelf = nominal depth + 36 mm, add-on shelf = nominal depth + 36 mm

### Safety instructions:

- Secure shelves with a height/depth ratio of  $\geq 5:1$  against tipping (wall anchoring or base anchoring).
- The indicated load capacities per bay apply for evenly distributed load
- Load capacity per bay indications apply to shelving rows with 3 or more bays
- Top shelf load capacity max. 200 kg



dispatched from  
the supplier's  
warehouse within  
10 days



5-year guarantee



## Shelf for META CLIP plug-in rack – length 1000 mm, load capacity per bay 100 kg

Single-row, with preassembled frame

Height (mm)	Nominal depth (mm)	Nominal length (mm)	Number of shelves (PCS)	Load-carrying capacity per shelf (kg)	Surface Version Load-carrying capacity per field (kg)	Galvanised Shelving unit		Galvanised Add-on shelving		Plastic-coated Shelving unit		Plastic-coated Add-on shelving	
						50167... Ident. No.		50167... Ident. No.		50167... Ident. No.		50167... Ident. No.	
2000	300	1000	5	100	1650	201	•+	231	•+	202	•+	232	•+
2000	400	1000	5	100	1650	203	•+	233	•+	204	•+	234	•+
2000	500	1000	5	100	1650	205	•+	235	•+	206	•+	236	•+
2000	600	1000	5	100	1650	207	•+	237	•+	208	•+	238	•+
2500	300	1000	6	100	2400	209	•+	239	•+	210	•+	240	•+
2500	400	1000	6	100	2400	211	•+	241	•+	212	•+	242	•+
2500	500	1000	6	100	2400	213	•+	243	•+	214	•+	244	•+
2500	600	1000	6	100	2400	215	•+	245	•+	216	•+	246	•+
3000	300	1000	7	100	1920	217	•+	247	•+	218	•+	248	•+
3000	400	1000	7	100	1920	219	•+	249	•+	220	•+	250	•+
3000	500	1000	7	100	1920	221	•+	251	•+	222	•+	252	•+
3000	600	1000	7	100	1920	223	•+	253	•+	224	•+	254	•+

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### Additional shelf, load capacity 100 kg

Depth (mm)	Length (mm)	Load-carrying capacity (kg)	Surface		Galvanised		Powder-coated	
			50167... Ident. No.		50167... Ident. No.		50167... Ident. No.	
300	1000	100	033	•	034	•	034	•
400	1000	100	035	•	036	•	036	•
500	1000	100	037	•	038	•	038	•
600	1000	100	039	•	040	•	040	•

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**META COMPACT office plug-in rack – single-row****Application:**

Clearly arranged storage of folders. Ideal for archives and offices.

**Execution:**

- Galvanised, with disassembled frame or coated RAL 7035, light grey, with clinched/pre-assembled frame
- Quick plug-in assembly without tools
- Shelves complete with end stop (optional cover shelf without end stop)
- Shelves/profiles made of quality steel, shelves adjustable in increments of 25 mm
- With pluggable steel feet
- Shelf height is more than 5 times the shelf width!

- Basic shelf planning dimensions: Nominal length + 56 mm, nominal depth + 36 mm
- Add-on shelf planning dimensions: Nominal length + 6 mm, nominal depth + 36 mm

**Notes:**

- Secure shelves with a height/depth ratio of  $\geq 5 : 1$  against tilting (wall mounting or foot fixing)
- The loads indicated per shelf and per bay apply for evenly distributed loads
- Bay load indications apply to shelving rows with 3 or more bays



Height (mm)	Nominal length (mm)	Nominal depth (mm)	Number of shelves (PCS)	Load-carrying capacity per shelf (kg)	Folder capacity (PCS)	Surface		Galvanised		Galvanised		Plastic-coated		Plastic-coated	
						Type of shelving	50166...	Shelving unit	Ident. No.	Add-on shelving	Ident. No.	Shelving unit	Ident. No.	Add-on shelving	Ident. No.
1850	750	300	5	80	45		211	● <sup>+</sup>		213	● <sup>+</sup>	215	● <sup>+</sup>	217	● <sup>+</sup>
1850	1000	300	5	80	60		231	● <sup>+</sup>		233	● <sup>+</sup>	235	● <sup>+</sup>	237	● <sup>+</sup>
2200	750	300	6	80	54		221	● <sup>+</sup>		223	● <sup>+</sup>	225	● <sup>+</sup>	227	● <sup>+</sup>
2200	1000	300	6	80	72		241	● <sup>+</sup>		243	● <sup>+</sup>	245	● <sup>+</sup>	247	● <sup>+</sup>
2200	1250	300	6	80	90		251	● <sup>+</sup>		253	● <sup>+</sup>	255	● <sup>+</sup>	257	● <sup>+</sup>
2500	750	300	7	80	63		261	● <sup>+</sup>		263	● <sup>+</sup>	265	● <sup>+</sup>	267	● <sup>+</sup>
2500	1000	300	7	80	84		271	● <sup>+</sup>		273	● <sup>+</sup>	275	● <sup>+</sup>	277	● <sup>+</sup>
2500	1250	300	7	80	105		281	● <sup>+</sup>		283	● <sup>+</sup>	285	● <sup>+</sup>	287	● <sup>+</sup>

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**Top shelf for office plug-in rack – single-row****Application:**

As cover for office plug-in rack.

**Technical data:**

- Version: One side

Depth (mm)	Length (mm)	Surface		Galvanised		Powder-coated	
		50166...	Ident. No.	218	●	219	●
300	750	238	●	239	●	239	●
300	1000	298	●	299	●	299	●

Prod. Gr. 508



## META SPEED-RACK wide-span shelf

### Application:

For large, bulky and long stored goods

### Design:

- Surface: Galvanised profiles and struts
- Structurally simple wide-span shelf with equal-sided, symmetrical angle profiles
- Simple structure owing to plug-in assembly
- Variable placement options owing to base construction
- Shelf levels height adjustable in 50 mm grid
- Level bars running lengthways and down to ground
- Two joists under each insert shelf
- With clamping plates, 19 mm thick or steel panels
- Peripheral edge protection of shelves through countersinking in level bars
- Planning dimensions: Nominal size = actual size, structure exclusively in basic shelf construction



### Safety instructions:

- **Secure shelves with a height/depth ratio of  $\geq 5:1$  against tipping (anchor to wall or base)**
- The indicated loads per bay and per unit apply for evenly distributed load



dispatched from the supplier's warehouse within 10 days



## META SPEED-RACK wide-span shelves – complete shelf with chipboard panels

Length (mm)			1700	2000	2500
Load-carrying capacity per shelf (kg)			500	500	400
Load-carrying capacity per field (kg)			3000	3000	2800
Height (mm)	Depth (mm)	Number of shelves (PCS)	50165... Ident. No.	50165... Ident. No.	50165... Ident. No.
1970	400	4	410	510	610
1970	600	4	420	520	620
1970	800	4	430	530	630
2470	400	4	440	540	640
2470	600	4	450	550	650
2470	800	4	460	560	660
2970	400	4	470	570	670
2970	600	4	480	580	680
2970	800	4	490	590	690

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## META SPEED-RACK wide-span shelves – complete shelf with steel panels

Length (mm)			1700	2000	2500
Load-carrying capacity per shelf (kg)			500	500	400
Load-carrying capacity per field (kg)			3000	3000	2800
Height (mm)	Depth (mm)	Number of shelves (PCS)	50165... Ident. No.	50165... Ident. No.	50165... Ident. No.
1970	400	4	411	511	611
1970	600	4	421	521	621
1970	800	4	431	531	631
2470	400	4	441	541	641
2470	600	4	451	551	651
2470	800	4	461	561	661
2970	400	4	471	571	671
2970	600	4	481	581	681
2970	800	4	491	591	691

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## META MULTIPAL® pallet shelf

### Design:

- Modern, sophisticated pallet shelving system for storing lightweight and medium-weight pallets or general cargo, lengthways and crosswise storage possible
- 4-hook clasps height-adjustable in 50 mm grid
- Enclosed box profiles ensure high stability
- Uprights produced from cold-formed profiles bolted to web bracing on-site
- Uprights galvanised, if required in RAL 5010 gentian blue, struts in RAL 2001 red orange



5-year guarantee



Figure: 1x basic shelf + 1x add-on shelf  
Shelf rack without contents and crash protection corners

### META complete shelf row, 2 bays of 2700 mm

#### Technical data:

- Number of shelving unit: 2 PCS
- Number of supporting plates: 2 PCS
- Number of stands: 3 PCS
- Stand type: MSM 85/20

- Quality label: RAL-RG 614/2
- Material: Steel
- Beam colour: Red orange RAL 2001
- Frame surface: Galvanised

Height (mm)	Length (mm)	Depth (mm)	Load-carrying capacity per compartment (kg)	Load-carrying capacity per field (kg)	Beam type	50170... Ident. No.
3300	5655	1100	1500	7500	HN 85/15	402 ●
3300	5655	1100	2400	7500	HN 100/20	403 ●

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### META basic and add-on shelves

#### Technical data:

- Depth: 1100 mm

- Frame surface: Galvanised

Height (mm)	Nominal length (mm)	Amount of storage levels (without floor) (PCS)	Tragfähigkeit pro Fach* (kg)	Stand type	Load-carrying capacity per field (kg)	Version Beam type	Shelving unit 50170... Ident. No.	Add-on shelving 50170... Ident. No.
2700	1825	2	2200	MSM 85/20	7500	HN 85/15	008 ○	009 ○
2700	2700	2	1500	MSM 85/20	5250	HN 85/15	430 ● <sup>+</sup>	432 ● <sup>+</sup>
2700	2700	2	2400	MSM 85/20	7500	HN 100/20	440 ● <sup>+</sup>	442 ● <sup>+</sup>
2700	2700	2	3000	MSM 85/20	6000	HN 120/20	429 ●	431 ●
3300	1825	2	2200	MSM 85/17	7500	HN 85/15	018 ○	019 ○
3300	1825	3	2230	MSM 85/20	6690	HN 85/15	022 ○	023 ○
3300	2700	3	1550	MSM 85/20	4650	HN 85/15	453 ●	454 ●
3300	2700	3	2405	MSM 85/20	7215	HN 100/20	456 ●	458 ●
3300	2700	3	3000	MSM 85/20	9000	HN 120/20	459 ●	461 ●
3300	2700	2	1500	MSM 85/17	5250	HN 85/15	450 ● <sup>+</sup>	452 ● <sup>+</sup>
3300	2700	2	2400	MSM 85/17	7500	HN 100/20	460 ● <sup>+</sup>	462 ● <sup>+</sup>
3300	2700	2	3000	MSM 85/20	6000	HN 120/20	433 ●	434 ●
4400	1825	3	2200	MSM 85/17	7450	HN 85/15	024 ○	025 ○
4400	1825	2	2215	MSM 85/20	4430	HN 85/15	020 ○	021 ○
4400	2700	3	1500	MSM 85/17	6950	HN 85/15	469 ● <sup>+</sup>	470 ● <sup>+</sup>
4400	2700	3	2400	MSM 85/17	7450	HN 100/20	473 ● <sup>+</sup>	474 ● <sup>+</sup>
4400	2700	3	3000	MSM 85/20	9000	HN 120/20	492 ●	493 ●
4400	2700	2	1510	MSM 85/20	3020	HN 85/15	439 ●	441 ●
4400	2700	2	2385	MSM 85/20	4770	HN 100/20	443 ●	444 ●
4400	2700	2	2940	MSM 85/20	5880	HN 120/20	446 ●	448 ●
5500	1825	3	2200	MSM 85/17	7450	HN 85/15	026 ○	027 ○
5500	2700	3	1500	MSM 85/17	6950	HN 85/15	481 ● <sup>+</sup>	482 ● <sup>+</sup>
5500	2700	3	2400	MSM 85/17	7450	HN 100/20	485 ● <sup>+</sup>	486 ● <sup>+</sup>
5500	2700	3	2980	MSM 85/20	8940	HN 120/20	494 ●	496 ●

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## mesh wire shelves suitable for pallet shelves

It may be useful or even necessary to use mesh wire shelves for pallet shelves.

Gratings are suitable for storing individual parts, as well as for providing added protection in aisles and passageways. In particular, they are used in areas where closed shelves cannot be used for fire safety reasons (e.g. with sprinkler systems).

Gratings are available in different mesh sizes.

We will supply you with the shelves you need for insertion or positioning on top.



➡ Further information and advice available on request



## Collection trays suitable for pallet shelves

Shelf trays suitable for all conventional pallet shelves can be found in the Environment/disposal chapter



## Stainless steel pallet shelf for longitudinal and transverse storage

### Design:

- Material 1.4301
- Stained surface
- Welded support frame with a load capacity of 9000 kg
- Hole grid 100: 100 mm
- Longitudinal bars with welded-on screw-on brackets
- Special sizes, other materials and further accessories are possible



➡ Further information and advice available on request





## META MULTIPAL pallet shelves – assembly instructions

### Selection of stands/struts:

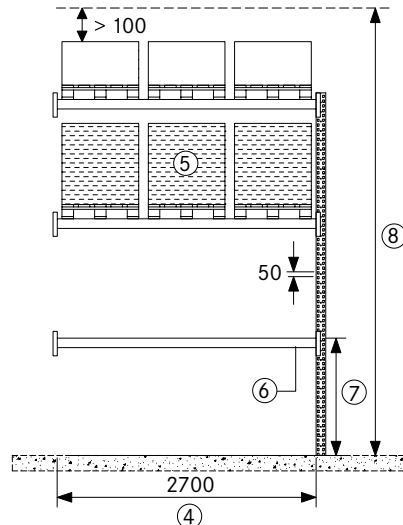
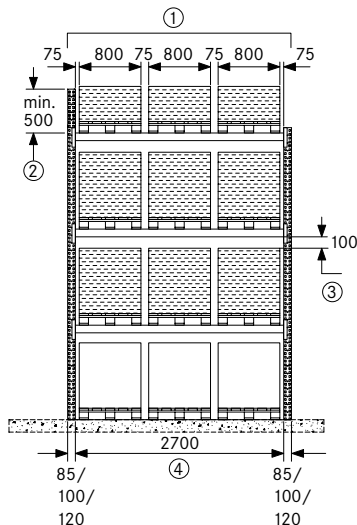
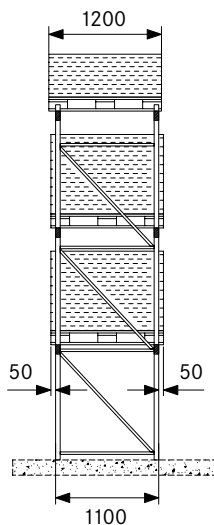
1. first Determine the load capacity per bay
2. Calculate the load capacity per bay
3. Select struts based on the load capacity per bay
4. Select the stand based on the load capacity per bay and compartment height

### Safety instructions:

- Load dimensions may exceed the nominal dimensions!
- Lifting height for handling equipment: Upper edge of top strut plus 200 mm
- The specified load capacity per bay refers to units consisting of one basic bay and at least three add-on bays and with at least three pairs of struts per bay.

### Planning dimensions:

Basic shelf = stand 85/20 mm: Nominal length + 170 mm, stand 100/20 mm: Nominal length + 200 mm, add-on shelf = stand 85/20 mm: Nominal length + 85 mm, stand 100/20 mm: Nominal length + 100 mm



Bay loads		Shelf width ≤ 2700 mm						Shelf width > 2700 ≤ 3600 mm		
Stand type	Compartment height	Strut profiles						Strut profiles		
	Up to max. in mm	85/15 kg	85/20 kg	100/20 kg	120/20 kg	140/15 kg	155/17 kg	120/20 kg	140/15 kg	155/17 kg
SR 85/20	1500	8650	8900	8950	9200	9200	9250	8300	8800	9150
	2000	7800	7950	8250	8600	8700	8750	7800	8500	8650
SR 100/20	1500	9900	12100	12450	12800	13200	13200	11900	12250	12500
	2000	8000	10400	11250	12000	12200	12200	10850	11600	11950

The field loads relate to shelves with a max. height of **8 metres** (uppermost strut), up to 12 m on request.

The loads on the shelves are related to:

- At least 4 units
- At least 3 strut levels
- Evenly distributed load
- Bay width ≤ 2700 mm or > 2700 mm and ≤ 3600 mm

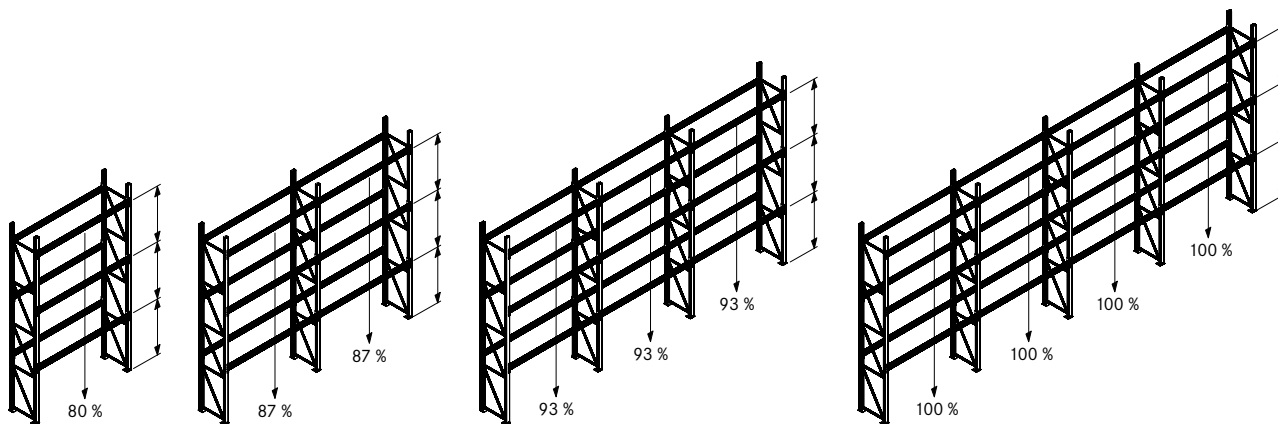
At least one HN 120-20 strut must be employed for bay widths of more than 2700 mm! If the strut cross-sections are smaller for these bay widths, the unit loads are reduced.

In this case please ask for advice. The unit loads depend on the combination of stands and struts used.

Please ask for details when planning a project.

**Higher bay loads up to 35 t on request!**

**Load values for struts and stands are reduced if less than 4 shelf units are arranged next to one another!**





## META ATLAS ST cantilever shelves – welded complete shelf rows

Cantilever with equal cantilever lengths, single- and double-sided

### Design:

- **Cantilever with equal cantilever lengths**
- **Welded cantilever supports**  
produced from hot- and cold-rolled steel profiles
- Flexible solution for horizontal storage of heavy and long goods
- **Axis diameter: 1350 mm** (distance from centre to centre of cantilever supports)
- Load capacity per arm: 200 kg

### Planning dimensions:

Axis diameter = 1350 mm (between cantilever rack centres), total length = nominal length + 55 mm, total depth = one-sided: 630 mm/double-sided: 1150 mm

The depth shown in the tables is the useful depth of the arms for each side.



dispatched from the supplier's warehouse within 3 days



5-year guarantee





## META ATLAS ST long goods shelving units – welded complete shelf rows

Cantilever with different cantilever lengths, single and double-sided

### Design:

- **Cantilever with different cantilever lengths**  
(becoming shorter towards the top)
- **Welded upright cantilevers** produced from hot- and cold-rolled steel profiles
- Flexible solution for horizontal storage of heavy and long goods
- **Axis diameter: 1350 mm** (distance from centre to centre of cantilever supports)
- Load capacity per arm: 150 kg

### Planning dimensions:

Axis diameter = 1350 mm (between cantilever rack centres), total length = nominal length + 46 mm, total depth = one-sided: 590 mm/double-sided: 1090 mm

The depth shown in the tables is the useful depth of the longest arm on each side. The useful depth of the cantilevers on each side is 150-410 mm.



dispatched from the supplier's warehouse within 3 days



5-year guarantee



figure: shelf consisting of 3 supports with 6 arms







## MULTISTRONG L cantilever shelves – complete shelf rows

For light loads up to 220 kg per cantilever, single and double side

### Design:

- Shelf for **light** load requirements
- For upright and horizontal storage of long goods, storage of sheet and panel goods
- Hot-rolled profiles **IPE 120** perforated on both sides for subsequent conversion from one-sided to double-sided; only the base needs to be swapped
- **Cantilever** height-adjustable in 100 mm grid
- **Robust leading** brand quality
- **Optimal reliability** in every respect
- „**Integrated**“ **extension options** and precisely tailored, customised solutions

### ▪ Rapid access to goods

- Anti-lift device ensures that cantilevers are not unintentionally lifted when placing goods into storage or removing goods
- Base storage level loadable up to 5 times the cantilever load

### Planning dimensions:

Basic shelf length = axis diameter: + 64 mm, depth of one-sided shelf = nominal depth + 210 mm, depth of double-sided shelf: 2 x nominal depth + 220 mm, base load = 5x cantilever load

If height/depth ratio 5:1 or optional conditions necessitate, base anchors must be used.



dispatched from the supplier's warehouse within 3 days



5-year guarantee





## MULTISTRONG M cantilever shelves – complete shelf rows

For medium loads up to 535 kg per cantilever, single- and double-sided

### Design:

- shelf for **medium** load requirements
- For upright and horizontal storage of long goods, storage of sheet and panel goods
- **IPE 140** profiles perforated on both sides for simple conversion from single-sided to double-sided
- **Cantilevers** height-adjustable in 100 mm grid
- **Robust leading** brand quality
- **Optimal reliability** in every respect
- „**Integrated**“ **extension options** and precisely tailored, customised solutions

### ▪ Rapid access to goods

- **Anti-lift device** ensures that cantilevers are not unintentionally lifted when placing goods into storage or removing goods

- Base storage level loadable up to 5 times the cantilever load

### Planning dimensions:

Basic shelf length = axis diameter: + 73 mm, depth of one-sided shelf = nominal depth + 230 mm, depth of double-sided shelf: 2 x nominal depth + 224 mm, base load = 5x cantilever load

If height/depth ratio 5:1 or optional conditions necessitate, base anchors must be used.



dispatched from the supplier's warehouse within 3 days



5-year guarantee

Figure: 1x basic element + 1x add-on element





## Heavy-load cantilever shelves For heavy and large stored goods

### Design:

- Design made of hot rolled steel sections or square tube
- Single- or double-sided design, height-adjustable cantilever in 100 mm steps
- Storage levels can have wooden or grating floor
- All dimensions available on request

### Advantages:

- Clearly arranged storage of large and bulky materials, goods and components
- Safe, protected storage
- Individual variants for different applications in every industry
- Assembled quickly and easily by our specialists

### Our service:

We plan customised solutions adapted exactly to your storage requirements.  
Choose your own personal colour scheme



➡ Further information and advice available on request



## cable drum shelves for efficient supply of cables

Individual business models require individual solutions. This especially applies to cable storage and provision. Together with our partners, we are able to find exactly the solution that you need for efficient and space-saving cable provision. Contact us.



Technical hotline +49 (0)7141 498-5819

### Shelf for panel offcut

For sheet metal, plastic, wood, pressboard, etc.

#### Application:

For the orderly storage of panel offcuts.

#### Execution:

- Base made of galvanised sheet steel and rectangular tubes
- With special base guides
- Galvanised compartment brackets which can be set and screwed at 4 different heights
- Smooth-running front-side steel roller for effortless storage and removal
- Bracket height 2 x 120 mm/1 x 385 mm/1 x 640 mm/2 x 900 mm

#### Advantage:

- Storage of min. 15 formats in five compartments.

- See at a glance what panel offcuts are still left.
- Simple loading and removal thanks to 3 open sides.
- Quick and convenient access thanks to upright size sorting.

#### Technical data:

- Suitable for panel formats: 80 x 120 mm | 1600 x 1600 mm
- Length: 1600 mm
- Width: 480 mm
- Height: 1000 mm
- Number of compartments: 5 PCS
- Compartment width: 50 mm
- Load-carrying capacity per compartment: 200 kg
- Material: Sheet steel
- Surface: Galvanised



50193... | Ident. No. 150 (O)\*

Prod. Gr. 559

### Panel shelf

For sheet metal, plastic, wood, pressboard, etc.

#### Application:

For the orderly storage of large-scale plastic panels, timber, compressed cardboard or up to 9 tonnes of sheet panels.

#### Execution:

- Base made of galvanised sheet steel and rectangular tubes
- With special base guides
- Galvanised compartment brackets of 900 mm which can be plugged and screwed
- Smooth-running front-side steel roller for effortless storage and removal
- For formats of 2000 x 1000 mm to 3000 x 1500 mm

#### Advantage:

- Easy to store and remove thanks to smooth-running rollers
- See at a glance what panel offcuts are still left.
- Simple loading and removal thanks to 3 open sides.
- Quick and convenient access thanks to upright size sorting.

#### Technical data:

- Length: 2030 mm
- Height: 1000 mm
- Material: Sheet steel
- Surface: Galvanised



Shelving unit without plate stock



Runner



Optional loading ramp

Suitable for panel formats			2000 x 1000 mm   3000 x 1500 mm	2000 x 1000 mm   3000 x 2000 mm	2000 x 1000 mm   3000 x 1500 mm
Width (mm)			560	800	800
Number of compartments (PCS)			6	6	9
Compartment width (mm)			45	85	45
Load-carrying capacity per compartment (kg)			1000	750	1000
Panel shelf	50193...	Ident. No.	155 (O)*	156 (O)*	157 (O)*
Loading ramp for panel offcuts	50193...	Ident. No.	158 O	159 O	159 O

Source: Hahn+Kolb Werkzeuge GmbH

Technical data subject to change.

Availability subject to country specific rules and regulations

Prod. Gr. 559



## Storage unit for rod-shaped goods

30 storage places for different material lengths

### Application:

For the storage of rods of all types, such as threaded rods, aluminium and plastic profiles, tubes, cable duct and much more.

### Execution:

- 3 offset shelving levels with a total of 30 storage spaces, 10 storage spaces per storage level
- Storage levels height-adjustable in increments of 30 mm
- Base plywood sheet to protect stored goods

### Technical data:

- Height: 1028 mm
- Width: 1022 mm
- Depth: 550 mm
- For parts up to max. diameter: 65 mm
- Number of storage places: 30 PCS
- Number of carriers: 6 PCS
- Grid dimension: 30 mm
- Material: Sheet steel
- Colour: Light grey RAL 7035
- Surface: Powder-coated



Shelving unit without bar stock

50193...

Ident. No.

160  
(O)\*

Prod. Gr. 559







## Heavy-duty pull-out shelves, load capacity of up to 1200 kg per shelf

Shelf height 2000 mm, 2500 mm and 3000 mm

### Application:

Pull-out shelves for the heaviest loads. For storing punching tools, motors, injection moulds and other heavy tools and workpieces.

### Design:

- Support frame made from U 80 profile
- Pull-out shelf load capacity 500 kg or 1200 kg
- Pull-out shelf with 100% full extension, height-adjustable in 50 mm grid (incl. fastening material)
- Pull-out shelf with metal sheet cover and 3-sided anti-roll-off edging, incl. insertion and extension lock
- Operable with crane if available, thanks to pull-out shelves
- Structural height of pull-out shelves 130 mm + 20 mm rim
- Load capacity of top shelf 250 kg

### Planning dimensions:

= addition of light section widths + a number of frames x 80 mm frames + 2 x 20 mm base plates

### Safety instructions:

- Approach protection is prescribed
- Ground properties: Level concrete flooring with minimum strength of B 25. If it is a floor with screed, this may have a max. thickness of 35 mm
- When fitting several add-on bays, for stability reasons a diagonal brace is necessary for every second add-on bay

### On request:

Additional designs, such as with drawers, shelves with partial extension, electric roller shutters, special sizes or special designs on request

### Deliverable:

Pull-out shelves largely pre-assembled and ready for installation. Shelf supports are pre-assembled. Other components such as shelves, side and rear walls, doors and diagonal braces are ready for assembly.

On request, up to 3 shelving bays up to 1300 mm wide and up to 4 shelving bays up to 900 mm wide are deliverable pre-assembled as a complete shelving unit.

### Service:

- Why not ask our experts to help you plan and install your shelving system?
- We offer on-site consultations or a CAD planning service



Figure: 1 shelf bay consisting of 1x basic shelf and 1x add-on shelf

**Standard colour:** Frame RAL 7035 light grey, drawers and shelves RAL 5010 gentian blue

### Special colours at no extra cost:

<b>RAL 1007</b> daffodil yellow	<b>RAL 1015</b> light ivory	<b>RAL 1028</b> melon yellow	<b>RAL 2004</b> pure orange	<b>RAL 3002</b> carmine red	<b>RAL 3020</b> traffic red	<b>RAL 5005</b> signal blue	<b>RAL 5010</b> gentian blue	<b>RAL 5012</b> light blue	<b>RAL 5014</b> pigeon blue	<b>RAL 5015</b> sky blue
<b>RAL 6011</b> reseda green	<b>RAL 6018</b> yellow green	<b>RAL 7016</b> Anthracite grey	<b>RAL 7021</b> black grey	<b>RAL 7023</b> concrete grey	<b>RAL 7032</b> pebble grey	<b>RAL 7035</b> light grey	<b>RAL 7038</b> agate grey	<b>RAL 7042</b> traffic grey	<b>RAL 8019</b> Grey brown	<b>RAL 9010</b> pure white

Colours may be subject to printing-related differences; the original colours according to RAL are definitive.

➡ Further information and advice upon request.



## Drawer extension shelf units COMBI

Load capacity per bay of up to 3000 kg

### Application:

Drawer system for storing flat materials and plate stock as well as tools and additional bulky goods.

### Design:

- Solid, welded design which can be dismantled, guide rails can be hooked into grid spaced at 47 mm
- Drawers can be opened fully by hand, easily and safely
- Drawers have an open base, but can be equipped with a wooden or steel plate on request
- Drawer dimensions of width 2200–6200 mm, depth 1050–2050 mm
- Shelves must be anchored to the floor on site
- The shelf can also be equipped with a roof compartment
- For an additional fee, these shelves can also be made suitable for outdoor use

### Advantages:

- Loading from rear is possible on request (FIFO principle)
- INA runners have an extremely strong outer ring and are lubricated for life
- One or both sides of the front can be folded in
- Shelves can be loaded with a crane

### Service:

- Why not ask our experts to help you plan and install your shelving system?
- We offer on-site consultations and a CAD planning service
- Order our free, separate catalogue containing all the technical details and setup options

Finish: RAL 7035, light grey or RAL 5010, gentian blue. Other lacquering upon request.



Both sides of the front-mounted unit can be folded in





➡ Further information and advice upon request.





## Divider system

For individual and flexible room division

### Application:

Variable and versatile system for workshop and warehouse. For rapid self-assembly of barriers, storeroom walls and partitions. The flexible modular design allows elements to be combined according to your individual needs and requirements on site.

### Design:

Flat grid mesh 40 x 40 mm, frame profile 30 mm, high-quality machined steel



- ① Wall element  
② Adjustable wall element

- ③ Top element  
④ Hatch element

- ⑤ Single door element  
⑥ Double door element

- ⑦ Sliding door element  
⑧ Sliding door element

**Powder coating:** all elements of the partitioning system are available at no extra cost in the following colours. Other colours available on request.

**RAL 5002**  
Ultramarine blue

**RAL 5007**  
Brilliant blue

**RAL 5018**  
Turquoise blue

**RAL 7037**  
Dusty grey



## Divider system

Options and possible combinations

The divider system is manufactured from flat grid mesh and C-profile frame to ensure maximum safety. The profile frames allow various fillings to be inserted instead of the grid mesh, such as acrylic glass, sheet metal, coated chipboard and combinations of the various fillings (upon request). In addition, all partition wall combinations are available as mobile screen

wall systems. The well-designed, angled feet allow the partition walls to be installed at 45/60°. Integrated threaded holes for attaching steering rollers turn the screen walls into mobile partitions in a flash. The maximum width of the elements is 1000 mm.



Different designs available on request



Available upon request: Steering rollers



Inclined arrangement of the adjustment feet



## Steel-construction modular platforms

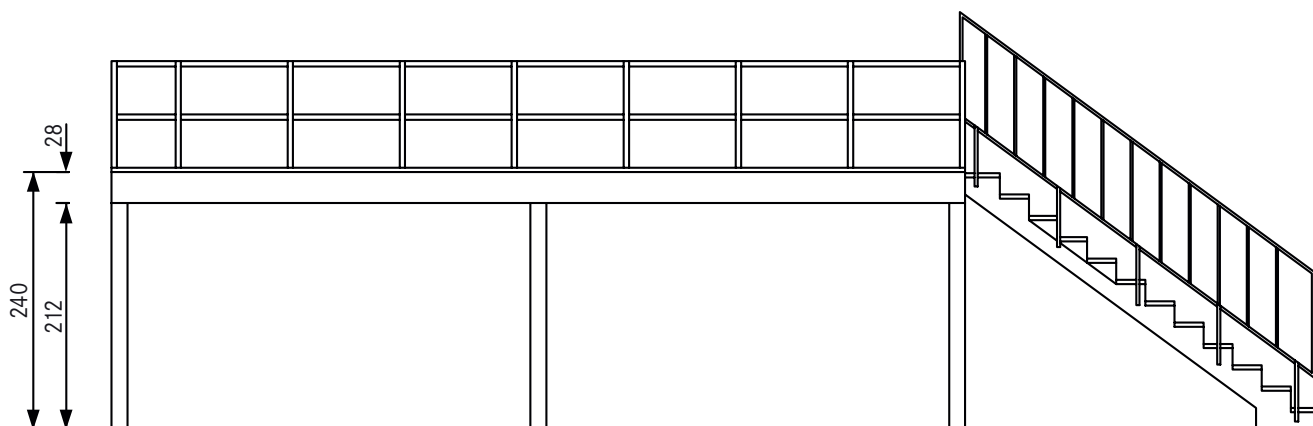
Free-standing steel construction that can be designed according to requirements for appropriate loads. The extreme stability allows versatile use of the upper levels, for example, for offices, break areas or as additional storage space or further production areas.

### Design:

- Individual grid of support columns to suit your installations and traffic routes under the storage platform. Overhangs and projections make the best possible use of all available space.
- Self-supporting structure, made of hot rolled steel sections or square tubing.
- Different platform coverings (wood, grating, non-slip surface) are available.

### Your benefits:

- Optimisation of available usable space in terms of height
- Alternative to constructing new halls
- Individual variants for different applications in all industries
- Modular extension possible at any time and platform can also be reinstalled at another location if necessary after disassembly
- Complies with Employers' Liability Insurance Association provisions in accordance with BGR 234 [German regulations for occupational insurance schemes]
- Simple and rapid assembly by our specialists
- **Our service:**
- We plan customised solutions tailored precisely to your requirements, incorporating a staircase, pallet transfer area, safety railings or even an office cabin for you. Select your personal colour scheme from our extensive range of colours.







## Impact protection

**Application:**

Warns of and protects persons from hazardous areas, removes hazard from sharp edges and prevents impact injuries. For indoor and outdoor applications.

**Execution:**

- high-quality protective elements produced from flexible ageing-resistant polyurethane foam
- UV- and solvent-resistant, silicone-free
- temperature-resistant from -40°C to +90°C
- fire classification UL94
- no open-pore cutting edges (important for hygiene and external areas)

- simple to cut to size

- Ident. No. 601, 610:** The self-adhesive impact protection elements adhere permanently and securely to smooth, clean surfaces, corners and edges.
- Ident. No. 603:** Simple attachment to all metallic surfaces (steel joists, cabinets, frames). Simple to reposition and remove again. Also suitable for temporary applications or as transport protection.

**Technical data:**

- Diameter: 40 mm
- Material: Polyurethane foam



Ident. No. 601-603

Length (mm)	1000	1000	5000
Limb length (mm)	20	20	25
Version	Self-adhesive	Magnetic	Self-adhesive
50172...	Ident. No. 601	603	610
	○	○	○

Prod. Gr. 504

**Crash protection corner****Application:**

For the protection of rack columns or partitioning systems in corner and transit areas.

**Execution:**

- Complete with 4 screw anchors

**Advantage:**

- Protects the bottom of upright posts against damage by industrial trucks

**Technical data:**

- Angle: 90 Degree
- Form: L
- Height: 400 mm
- Material: Steel
- Colour: Yellow
- Reflective tape: Black



50170...

Ident. No.

495

Prod. Gr. 508

**Crash protection corner****Application:**

For the protection of rack columns or partitioning systems in corner and transit areas.

**Execution:**

- Complete with 4 screw anchors

**Advantage:**

- Protects the bottom of upright posts against damage by industrial trucks

**Technical data:**

- Form: U
- Height: 400 mm
- Material: Steel
- Colour: Yellow
- Reflective tape: Black



50170...

Ident. No.

498

Prod. Gr. 508

**90° crash protection bracket for indoor use**

With tube diameters of 42.4 mm and 76 mm

**Application:**

For the protection of business inventory.

- With black reflective tape

**Execution:**

- Made of stable steel profile tube
- 90° curved, zinc-coated
- Incl. sleeve anchor for ground mounting on concrete surface

**Technical data:**

- Angle: 90 Degree
- Material thickness: 3.25 mm
- Colour: Zinc yellow RAL 1018
- Reflective tape: Black
- Surface: Powder-coated



Height (mm)	300	600	350	600	1200
Length (mm)	350	350	600	600	600
50172...	Ident. No. 300	301	302	303	304
	○	○	○	○	○

Prod. Gr. 504

For outside use, also available in white/red.

**Crash protection bar for indoor use****With tube diameter of 42.4 mm****Application:**

For the protection of business inventory.

**Execution:**

- Made of stable steel profile tube
- Incl. sleeve anchor for ground mounting on concrete surface
- With black reflective tape

**Technical data:**

- Pipe diameter: 42.4 mm
- Material thickness: 3.25 mm
- Colour: Zinc yellow RAL 1018
- Reflective tape: Black
- Surface: Powder-coated



Length (mm)			350	750	1000
	Height (mm)				
50172...	300	Ident. No.	313 ○	314 ○	315 ○
50172...	600	Ident. No.	317 ○	318 ○	319 ○

Prod. Gr. 504

For outside use, also available in white/red.

**Crash protection bar for indoor use****With tube diameter of 76 mm****Application:**

For the protection of business inventory.

**Execution:**

- Made of stable steel profile tube
- Incl. sleeve anchor for floor mounting on concrete surface
- With black reflective tape

**Technical data:**

- Pipe diameter: 76 mm
- Material thickness: 3.25 mm
- Colour: Zinc yellow RAL 1018
- Reflective tape: Black
- Surface: Powder-coated

Length (mm)			500	750	1000
	Height (mm)				
50172...	350	Ident. No.	321 ○	322 ○	323 ○
50172...	600	Ident. No.	325 ○	326 ○	327 ○
50172...	1200	Ident. No.	329 ○	330 ○	331 ○

Prod. Gr. 504

**crash protection bracket as shelf protection (front)****With tube diameters of 42.4 mm and 76 mm****Application:**

Prevents collision damage to shelves.

**Execution:**

- Made of stable steel profile tube
- Incl. sleeve anchor for floor mounting on concrete surface
- With black reflective tape

**Technical data:**

- Length: 1250 mm
- Material thickness: 3.25 mm
- Colour: Zinc yellow RAL 1018
- Reflective tape: Black
- Surface: Powder-coated



Pipe Ø (mm)			42.4	76
	Height (mm)			
50172...	300	Ident. No.	316 ○	-
50172...	600	Ident. No.	320 ○	328 ○
50172...	350	Ident. No.	-	324 ○

Prod. Gr. 504

Crash protection bar for indoor use  
with pipe diameter 76 mm

**Application:**  
For the protection of business inventory, e.g. preventing damage due to ramming by transport devices, as a spacer.

**Execution:**

- Made of stable steel profile tube, zinc-coated
- Incl. sleeve anchor for ground mounting on concrete surface

- With black reflective tape
- Technical data:**
- Height: 85 mm
  - Pipe diameter: 76 mm
  - Material thickness: 3.25 mm
  - Colour: Zinc yellow RAL 1018
  - Reflective tape: Black
  - Surface: Powder-coated



Length (mm)		400	800	1200
50172...	Ident. No.	360 ○	361 ○	362 (○)*

Prod. Gr. 504

Hoop barrier for indoor use  
With tube diameter 42 mm, height 1000 mm

**Application:**  
For securing and delimiting operating paths and vulnerable areas.

**Execution:**

- Made of stable steel profile tube, hot-dip galvanised
- Incl. sleeve anchor for ground mounting on concrete surface

- With black reflective tape
- Technical data:**
- Pipe diameter: 42 mm
  - Material thickness: 2 mm
  - Colour: Zinc yellow RAL 1018
  - Reflective tape: Black
  - Surface: Powder-coated



Example application

Length (mm)			1000	1500	2000
	Height (mm)				
50172...	1000	Ident. No.	401 ○	404 ○	407 ○

Prod. Gr. 504

For outside use, also available in white/red.





## Borderline crash protection system

For indoor use

### Application:

For maximum protection of certain areas against contact damage, for protecting machines, storage spaces, shelves etc. Easy-to-mount plug and screw system that meets the highest standards of quality, force absorption and variability. The Borderline crash protection system can be expanded as required and so can be adapted to your individual operating requirements.



Example application, incl. centre support and corner protector



Example application with corner protectors

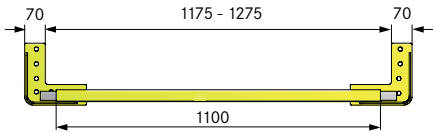
Crash protection planks, height 400 mm  
For Borderline crash protection system

**Application:**  
For connecting and securing the areas between two corner protectors.

**Delivery:**  
2 boards per set

- Execution:**
- From high-quality processed profile steel 3 mm thick
  - Boards can be extended from 50–150 mm

- Technical data:**
- Height: 400 mm
  - Colour: Zinc yellow RAL 1018



Dimensioning example



Example application with corner protectors

Length (mm)		50172... Ident. No.	
	800	420	○
	900	421	○
	1000	422	○
	1100	423	○
	1200	424	○
	1300	425	○
	1600	426	○
	1700	427	○
	1800	428	○
	1900	429	○
	2000	430	○

Prod. Gr. 504



## Centre support

### For Borderline crash protection system

#### Application:

For the extension and connection of crash protection boards—Borderline crash protection system

#### Execution:

- Made of stable T profile steel 50 x 50 mm, robust design

#### Advantage:

- Protects the bottom of upright posts against damage by industrial trucks

50172...

Ident. No.

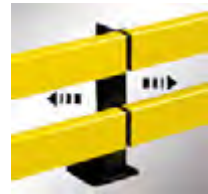
435



Prod. Gr. 504

#### Technical data:

- Form: T
- Height: 400 mm
- Length: 50 mm
- Width: 50 mm
- Material: Steel
- Colour: Jet black RAL 9005
- Surface: Powder-coated



Variable extension 50-150 mm

## 90° corner protectors

### For Borderline crash protection system

#### Application:

For construction of the Borderline crash protection system with crash protection boards

#### Execution:

- Made of 5 mm thick sheet steel, curved by 90°
- With pre-drilled holes for floor mounting and 4 holes each for mounting crash protection planks to both sides
- Incl. mounting material
- With black reflective tape

#### Advantage:

- Protects the bottom of upright posts against damage by industrial trucks

#### Technical data:

- Angle: 90 Degree
- Form: L
- Height: 400 mm
- Length: 180 mm
- Width: 180 mm
- Material thickness: 5 mm
- Material: Steel
- Colour: Zinc yellow RAL 1018
- Reflective tape: Black
- Surface: Powder-coated



Installation material included



50172...

Ident. No.

440



Prod. Gr. 504

## fluorescent traffic cone SET

### 5 traffic cones + 10-m chain

#### Application:

the cone sets are quick and easy to set up. ideal for temporary barriers.

#### Execution:

- freely rotatable polyethylene chain
- hooks
- can be easily inserted into the cones
- chain for hanging
- the ends of the hook fit to the holes in the cones and ensure a secure grip

#### Advantage:

- temporary cordoning off
- 3 pieces
- affordable

#### Delivery:

5 fluorescent traffic cones, 10-m red/white chain (M-POLY visible) and 5 chain hooks

#### Notes:

in public areas, traffic cones in accordance with the technical delivery conditions are required

#### Technical data:

- Colour: Red | Orange
- Base area length x base area width: 290 x 290 mm
- Height: 500 mm
- Material: PVC - Polyvinyl chloride
- BAST-tested: No
- Included in delivery: 5 fluorescent traffic cones, 10-m red/white chain and 5 chain hooks



50173...

Ident. No.

086



Prod. Gr. 504

## 2 bollards with extendible belt strap

### with a solid steel weight

#### Execution:

- vertical rod piping made from robust plastic
- Cast-iron weight, with impact-resistant, black plastic protective hood
- 4-way system

#### Technical data:

- Belt width: 50 mm
- Extension length: 2000 mm
- Max. extension length: 2300 mm
- Height: 940 mm
- Outer diameter of pipe: 64 mm
- Material of the pipe: Plastic
- Diameter ground plate: 354 mm
- Material ground plate: Cast iron



Ident. No. 001



Ident. No. 003

Colour of post		Yellow	Red
Colour of belt		Yellow/black	Red/white
50173...	Ident. No.	001	003
		○	○

Prod. Gr. 559

## chain warning posts SET

### 6 posts + 10 m chain

#### Application:

for simple, fast and mobile cordoning off in storage, production, shipping and administration areas. for indoor and temporary outdoor use.

#### Execution:

- plastic upper section
- cap with four integrated chain mounts
- low centre of gravity, stable
- post with integrated plug connector to securely attach to the base plate
- ready-to-use set with accessories

#### Advantage:

- low tare weight
- cordon off quickly and with ease
- three variants available

50173...	Ident. No.	143
		●

Prod. Gr. 504

- great value for money

#### Delivery:

6 chain stands, 10 m chain (M-POLY visible), 10 connecting links and 10 mounting hooks

#### Notes:

maximum distance between chain stands when using plastic chains: 2.0 m

#### Technical data:

- Colour of post: Red-White
- Shape base plate: Square
- Dimension base plate: 265x265 mm
- Height: 870 mm
- Outer diameter of pipe: 40 mm
- Material ground plate: Hard rubber



## belt barrier with magnetic wall unit

#### Application:

ideal for use in areas that only need to be cordoned off occasionally.

#### Execution:

- wall unit for magnetic attachment to wall
- easy extension, high-quality workmanship

- includes magnetic belt end and steel shim as counterpiece

#### Technical data:

- Colour of housing: Black
- Belt width: 50 mm



Colour of belt	Extension length (mm)	Max. extension length (mm)	50173... Ident. No.	
Yellow/black	4300	4600	061	○
Red/white	4300	4600	063	○

Colour of belt	Extension length (mm)	Max. extension length (mm)	50173... Ident. No.	
Yellow/black	7400	7700	071	○
Red/white	7400	7700	073	○
Yellow/black	8700	9000	081	○
Red/white	8700	9000	083	○

Prod. Gr. 559

## belt barrier for bolting to wall

### Application:

ideal for use in areas that need to be continually cordoned off.

- easy extension, high-quality workmanship
- includes wall clip for hanging from opposite wall

### Execution:

- wall unit for bolting to wall

### Technical data:

- Colour of housing: Black
- Belt width: 50 mm



Colour of belt	Extension length (mm)	Max. extension length (mm)	50173... Ident. No.	
Yellow/black	4300	4600	031	○
Red/white	4300	4600	033	○
Yellow/black	7400	7700	041	○
Red/white	7400	7700	043	○
Yellow/black	8700	9000	051	○
Red/white	8700	9000	053	○

Prod. Gr. 559

## warning tape

### inexpensive, extremely tear-resistant multi-purpose tape

### Application:

quickly secure construction sites and dangerous areas.  
effectively block dangerous areas, entrances and parking areas. effortlessly mark traffic routes and obstacles.

- cordon off quickly
- resistant to tearing
- affordable

### Technical data:

- Length: 500 m
- Width: 80 mm
- Colour: Red | White

### Advantage:

- made of polyethylene

50173...	Ident. No.	093
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Prod. Gr. 586

Accessories for		50173 093
50173... marking pin made from steel with safety bar	Ident. No.	099



## **DURALINE STRONG** floor marking tapes (DIN 51130) Single-coloured

### Application:

self-adhesive, extra strong floor marking tape for indoor use. For resilient, long-term marking of footpaths and driveways in warehouses and factories

### Execution:

- in accordance with ASR A1.5/1.2 „Floors“ as per DIN 51130 slip prevention (R group) R 10
- extruded material for abrasion resistance and durability
- bevelled edges provide strong adhesive force

### Advantage:

- Suitable for forklifts, except steering and turning movements
- Slip resistance R 10
- strong adhesive force
- abrasion-resistant and durable

### Technical data:

- Type description: Duraline Strong
- Width of tape x length of strap: 50 mm x 30 m
- Thickness: 1.2 mm

Colour	50173... Ident. No.	
Signal yellow RAL 1003	500	●
Signal red RAL 3001	501	●
Signal green RAL 6032	502	●

Prod. Gr. 5BD



## DURABLE Two-tone DURALINE STRONG floor marking tapes (DIN 51130)

**Application:**

self-adhesive, dual-colour floor marking tape for indoor use. For resilient, long-term marking of foot-paths and driveways in warehouses and factories

**Execution:**

- in accordance with ASR A1.5/1.2 „Floors“ as per DIN 51130 slip prevention (R group) R 9

**Advantage:**

- Slip resistance R 9

**Technical data:**

- Type description: Duraline Strong
- Width of tape x length of strap: 50 mm x 30 m
- Thickness: 0.7 mm



Colour	50173... Ident. No.
Yellow   Black	503 ●
Red   White	504 ●
Green   White	505 ●

Prod. Gr. 5BD

## Anti-slip adhesive tapes

### With rough surface

**Application:**

Versatile use and easy to glue, e.g. on stair steps, ladders, ramps, paths, entry areas, loading zones or in front of machines, for use inside and outside.

**Execution:**

- Self-adhesive, anti-slip adhesive tape with rough surface made of aluminium oxides on a polymer backing
- Slip prevention R13 in accordance with EN 13552
- Temperature-resistant from -20 °C to +60 °C and UV-resistant
- 1 roll width 50 mm, length per roll 18.3 m

**Advantage:**

- Suitable for fast marking of hazardous areas
- Increases slip safety on slippery surfaces

**Technical data:**

- Material: Aluminium oxide/polymer
- Surface structure: Coarse
- Suitable for wet areas: No
- Antistatic: No
- Non-slip: Yes
- Compliant with REACH: Yes



Example application

Length (m)	Width (mm)	Min. temperature resistance (°C)	Max. temperature resistance (°C)	Colour	Black	Black   Yellow	Red   White	Yellow	Transparent
18.3	50	-20	60	50225... Ident. No.	130 ●	132 ●	134 ●	136 ●	138 ●

Prod. Gr. 5AD

## DURABLE REGISTERED SAFETY IDENTIFIERS (DIN 51130)

**Application:**

self-adhesive safety label for attaching to floors in the interior

**Execution:**

- in accordance with ASR A1.5/1.2 „Floors“ as per DIN 51130 slip prevention (R-Group) R 9
- in accordance with ASR A1.3 and DIN EN ISO 7010

**Advantage:**

- slip prevention R9
- abrasion-resistant and durable

**Technical data:**

- Thickness: 0.4 mm
- Number of pieces per packet: 1
- DIN: 51130



Form	Length of tape (mm)	Text on the sign	Ø (mm)	50173... Ident. No.
Round	-	No smoking	430	510 ●
Round	-	Use hearing protection	430	511 ●
Round	-	No admittance	430	512 ●
Round	-	Use walkway	430	513 ●
Round	-	Forbidden for walkers	430	514 ●
Round	-	Use foot protection	430	515 ●
Triangular	430	Fork lift trucks warning	-	516 ●
Round	-	Use high visibility vest	430	517 ●

Prod. Gr. 5BD

## 3M Warning marking tape 766i/767i

All-purpose soft PVC adhesive tape for use on many surfaces

**Application:**

For marking, barricading, bundling, protecting and covering. Also suitable for making the floor. Ideal for indicating hazards.

**Execution:**

- Highly elastic backing material

**Advantage:**

- Solvent-resistant

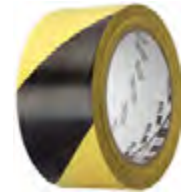
- High initial adhesive strength
- Supple even on uneven surfaces

**Notes:**

We recommend you request the safety data sheet with your first order.

**Technical data:**

- Width of tape x length of strap: 50 mm x 33 m
- Breaking elongation: 180 %



Ident. No. 505



Ident. No. 515

Type description		766i	767i
Colour		Black   Yellow	Red   White
69772...	Ident. No.	505	515
		●	●

Prod. Gr. 6RM

### safety mirror

**Application:**

For monitoring access areas and internal processes. Or for safety at junctions.

**Execution:**

- with 250 mm wall bracket

- for internal and protected external areas

**Advantage:**

- prevents accidents and theft
- simple mounting and adjustment
- lightweight and extremely impact-resistant

Ø (mm)	Abstand (m)	50179... Ident. No.	
300	2	501	○
400	3	502	○
500	5	503	○
600	7	504	○
700	9	505	○
800	11	506	○

Prod. Gr. 559



### extended wall bracket for safety mirror

50179...	Ident. No.	509
		○

Prod. Gr. 559



### safety mirror 180°

**Application:**

For safety at tight T-junctions on company premises. Creates visibility in critical areas, narrow passage-ways and blind spots. For indoor use.

**Execution:**

- acrylic glass
- distortion-free 3-way mirror
- extreme wide-angle effect

- especially flat design for minimal space requirements
- wall fixture with conventional screws (not included in scope of delivery)

**Advantage:**

- prevents accidents and theft
- simple mounting





Ø (mm)	Width x height x depth	Abstand (m)	50179... Ident. No.	
600	600 x 320 x 240 mm	5	511	○
800	800 x 410 x 330 mm	6	512	○
900	900 x 450 x 250 mm	7	513	○
1000	1000 x 530 x 400 mm	8	514	○

Prod. Gr. 559

## safety mirror 360°

### Application:

Facilitates a 360° all-round view and thus ideal visibility at junctions and in areas with restricted visibility. Ideal for forklift truck traffic, for indoor applications.

### Execution:

- acrylic glass
- distortion-free 360° all-round view

- extreme wide-angle effect
- attachment directly onto level ceiling using conventional screws (not included in scope of delivery) or to optional assembly set no. 50179526

### Advantage:

- prevents accidents and theft
- simple mounting



Ø (mm)	Abstand (m)	!!Accessoires!! (m)		safety mirror 360		Chain for hanging, 4	
				50179... Ident. No.		50179... Ident. No.	
600	3			521	○	526	○
800	4			522	○	526	○
900	5			523	○	526	○
1000	6			524	○	526	○
1250	8			525	○	526	○

Prod. Gr. 559

## Cable bridge with cable duct

### Application:

**Ident. No. 010:** Allows cables, hoses and piping to be driven over without issue and drastically reduces the risk of tripping. Designed for occasional heavy loads, tested up to 12 t axle load.

### Execution:

- **Ident. No. 010:**
  - cable duct size: 2 ducts 68 x 50 mm (W x H), 1 duct 55 x 50 mm (W x H)
  - extendible modular system
  - cable bridge dimensions (L x W x H): 960 x 600 x 75 mm

- combined net length: 870 mm

### Advantage:

- **Ident. No. 010:**
  - high load-bearing capacity owing to special solid rubber compound
  - ribbed, non-slip surface
  - permanent attachment possible owing to integrated dowel mounts

### Technical data:

- Number of ducts: 3



Ident. No. 010



Version	Colour	Length x width x height	50226... Ident. No.	
Basic element	Black   Yellow	960 x 600 x 75 mm	010	○
End   With groove	Black	283 x 600 x 75 mm	012	○
End   With pin	Black	283 x 600 x 75 mm	014	○

Prod. Gr. 504



Cable bridge  
flexible rubber mixture

**Application:**  
For protecting cables and hoses and for preventing trip hazards.

- Execution:**
- suitable for use on trucks and forklifts
  - flexible, high-strength mixed rubber

- profiled, slip-resistant surface, can be easily driven over
- underside with non-slip rubber lips
- cable duct size: 2 x 20 mm and 1 x 45 mm

- Technical data:**
- Length x width x height: 1200 x 210 x 65 mm
  - Number of ducts: 3



Colour		50226... Ident. No.	
	Yellow	001	○
	Black	003	○

Prod. Gr. 504

