



## FOCO L / FOCO XL LED Floodlight / Plane Surface Floodlight Series 7700... /7800...

### Applications:

Industrial areas, stockyards, terminals, construction zone, accent lighting, large equipment for open-cast mining, illumination of building and facades etc.

### Design:

**Housing:** Die-cast aluminium, 2-parts, powder coated DB 702 (mica-iron paint, grey).

**Upper part:** With LED- and optics-modules

**Lower part:** With electronic ballast, glass cover, cable entry with cable relief and pressure compensation system, retractable.

**Glass:** Flat safety glass pane, resistant to

temperature changes, impact resistant IK10 (7700...) IK09 (7800...), silicone gasket.

**Light distribution:** With optics narrow-wide (TB), narrow (T) or asymmetrical beam (A), without optics wide beam.

**Connection:** 3-pole terminal, max. clamping range 2.5 mm<sup>2</sup>.

**Cable entry:** 1 cable entry M20 x 1.5 (1 cable gland).

**Mounting:** Mounting bracket, swivel range 180°, with 3 drillings for wall- or ceiling mounting or for direct pole mounting in conjunction with pipe clamps ROB 60/76 G2 (see accessories).

### Electrical design:

**LED module:** 4,000 K or 3,000 K,  $R_a > 70$ , service life  $L_{90} > 100,000$  h, Zhaga compliant

**ECG:** 220-240 V, 50-60 Hz, Surge voltage resistance 10 kV, overload and short circuit protection.

### Options:

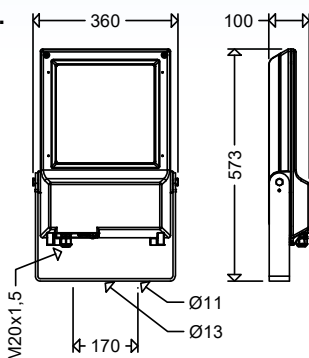
- 2,200 K; light colour (722)
- 1,800 K; light colour (518)
- asymmetrical wide beam (AB)
- asymmetrical wide beam, low glare (ABL)
- extremely narrow beam (TX)
- cable looping at 1 small side
- special painting in RAL colours
- protection class II (SKII)
- seawater-resistant version
- vibration-resistant design
- high resistance (HR), against corrosive atmosphere
- bird deterrence

- for connection to a central power supply system (ZB)
- dimming function via DALI2 interface, compatible with LIMAS Line wired Light Management System (DIMD)
- power reduction with control phase (LR)
- power reduction without control phase (LA)
- constant luminous flux function (CL)
- adaptive Light EcoTune
- additional overvoltage protection
- inrush current limiter
- extended swivel range

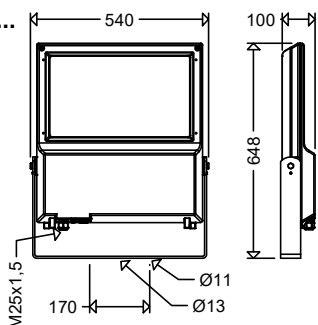
### Product highlights:

- durable, corrosion-resistant die-cast aluminium housing
- excellent thermal management, long service life
- comfortable maintenance due to removable lower part of the housing, large opening allows easy access to the terminal box and the electrical components
- homogeneous illumination due to the Multi-Layer-Technology
- eco-friendly, no light emission into the upper half-space, ULOR=0 (Plane Surface Floodlight)
- all versions dimmable to 10 % with color temperature up to max. 3,000 K fulfill the Dark Sky requirements
- sustainable, control gear and LED-module replaceable by qualified personnel on-site
- future proof by using standardized LED-modules (Zhaga) and long-term availability of spare parts
- GreenLine luminaire, outstanding sustainable design

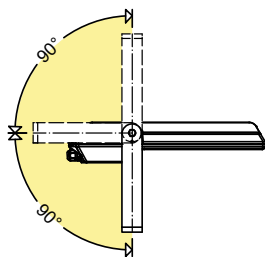
7700...



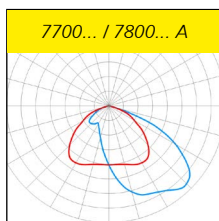
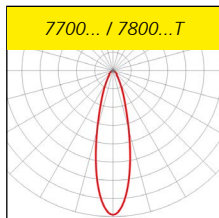
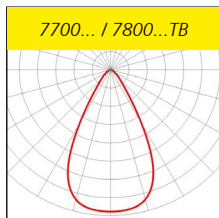
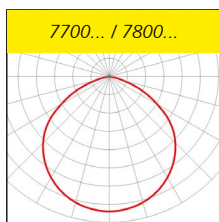
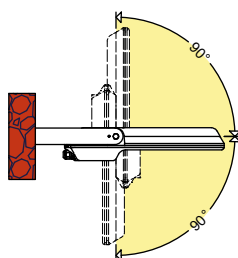
7800...



Swivel range



Standard Mounting



**Properties, limitations and details for controlling LED-light fittings:**  
See "Technical Supplement"

All data are correct at the time of printing. Actual technical data can be found under [www.schuch.de](http://www.schuch.de).

All light fittings also available with connected cable (H07RN-F or NYM) in the required length.

Article No.	Type	Connected load [W]	Luminous flux [lm]	Luminous efficacy [lm/W]	Weight [kg] (without packing material)
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## 7700 ... / 7800...

IP66



Wind  
load area  
A = 0,15m²

### Floodlight / Plane Surface Floodlight

colour temperature 4.000K (light colour 740)



77000 0006	7700 3203	70	11.360	162	9,5
77000 0010	7700 3203TB				
77000 0014	7700 3203T				
77000 0002	7700 3203A				
77000 0007	7700 4803	106	16.790	158	9,7
77000 0011	7700 4803TB				
77000 0015	7700 4803T				
77000 0003	7700 4803A				
77000 0008	7700 6403	140	21.940	157	9,7
77000 0012	7700 6403TB				
77000 0016	7700 6403T				
77000 0004	7700 6403A				
78000 0011	7800 6403	140	22.650	162	15,9
78000 0001	7800 6403TB				
78000 0041	7800 6403T				
78000 0021	7800 6403A				
78000 0012	7800 12803	280	43.920	157	17
78000 0002	7800 12803TB				
78000 0042	7800 12803T				
78000 0022	7800 12803A				

colour temperature 3.000K (light colour 730)



77000 0198	7700 3203 730	70	10.790	154	9,5
77000 0199	7700 3203TB 730				
77000 0201	7700 3203T 730				
77000 0055	7700 3203A 730				
77000 0202	7700 4803 730	106	15.950	150	9,7
77000 0203	7700 4803TB 730				
77000 0157	7700 4803T 730				
77000 0058	7700 4803A 730				
77000 0099	7700 6403 730	140	20.840	149	9,7
77000 0116	7700 6403TB 730				
77000 0204	7700 6403T 730				
77000 0096	7700 6403A 730				
78000 0112	7800 6403 730	140	21.520	154	15,9
78000 0113	7800 6403TB 730				
78000 0114	7800 6403T 730				
78000 0050	7800 6403A 730				
78000 0115	7800 12803 730	280	41.720	149	17
78000 0057	7800 12803TB 730				
78000 0116	7800 12803T 730				
78000 0054	7800 12803A 730				

All light fittings also available with connected cable (H07RN-F or NYM) in the required length.

Article no.	Type	Power/ consumption [W]	Luminous flux [lm] <sup>1)</sup>	Luminous efficacy [lm/W] (up to)	Substitute for ca. *	Weight [ca. kg] (without packaging)
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## 7700... / 7800... VARIO

IP66



Wind load area A = 0,15m²

### Design:

Same as type 7700... / 7800... but: With a switch for variable adjustment of the luminous flux in the luminaire. The connected load will change depending on the setting of the luminous flux. request.

### Product highlights of the VARIO version:

- simple, fast, tool-free setting of the luminous flux on site, by means of integrated switch, can be changed at any time
- reduction in the variety of types



### Floodlight / Plane Surface Floodlight

#### colour temperature 4.000K (light colour 740)

77001 0001	7700 L100 VARIO	16 - 70	2.760 - 11.360	179	HST 50 - HSE 150	9,5
77001 0003	7700 L100TB VARIO					
77001 0004	7700 L100T VARIO					
77001 0002	7700 L100A VARIO					
77001 0009	7700 L150 VARIO	24 - 106	4.120 - 1.6790	173	2 x HME 80 - 2 x HME 250	9,7
77001 0011	7700 L150TB VARIO					
77001 0012	7700 L150T VARIO					
77001 0010	7700 L150A VARIO					
77001 0017	7700 L210 VARIO	32 - 140	5.400 - 21.940	169	2 x HST 70 - HME 400	9,7
77001 0019	7700 L210TB VARIO					
77001 0020	7700 L210T VARIO					
77001 0018	7700 L210A VARIO					
78003 0001	7800 L210 VARIO	32 - 140	5.550 - 22.650	173	2 x HST 70 - HME 400	15,9
78003 0003	7800 L210TB VARIO					
78003 0004	7800 L210T VARIO					
78003 0002	7800 L210A VARIO					
78003 0009	7800 L420 VARIO	64 - 280	10.860 - 43.920	170	HSE 150 - 2 x HIE 400	17
78003 0011	7800 L420TB VARIO					
78003 0012	7800 L420T VARIO					
78003 0010	7800 L420A VARIO					

#### colour temperature 3.000K (light colour 730)

77001 0005	7700 L100 VARIO 730	16 - 70	2.620 - 10.790	171	HST 50 - HSE 150	9,5
77001 0007	7700 L100TB VARIO 730					
77001 0008	7700 L100T VARIO 730					
77001 0006	7700 L100A VARIO 730					
77001 0013	7700 L150 VARIO 730	24 - 106	3.910 - 15.950	164	2 x HME 80 - 2 x HME 250	9,7
77001 0015	7700 L150TB VARIO 730					
77001 0016	7700 L150T VARIO 730					
77001 0014	7700 L150A VARIO 730					
77001 0021	7700 L210 VARIO 730	32 - 140	5.130 - 20.840	160	2 x HST 70 - HME 400	9,7
77001 0023	7700 L210TB VARIO 730					
77001 0024	7700 L210T VARIO 730					
77001 0022	7700 L210A VARIO 730					
78003 0005	7800 L210 VARIO 730	32 - 140	5.270 - 21.520	165	2 x HST 70 - HME 400	15,9
78003 0007	7800 L210TB VARIO 730					
78003 0008	7800 L210T VARIO 730					
78003 0006	7800 L210A VARIO 730					
78003 0013	7800 L420 VARIO 730	64 - 280	10.320 - 41.720	161	HSE 150 - 2 x HIE 400	17
78003 0015	7800 L420TB VARIO 730					
78003 0016	7800 L420T VARIO 730					
78003 0014	7800 L420A VARIO 730					

Factory setting L100: 54 W; replaces approx. ca. HME 250

Factory setting L150: 106 W; replaces approx. 2 x HME 250

1) possible setting range

Factory setting L210: 140 W; replaces approx. HME 400

Factory setting L420: 280 W; replaces approx. 2 x HIE 400

\* The given information is for rough orientation only. In each individual case a lighting calculation is necessary.

All light fittings also available with connected cable (H07RN-F or NYM) in the required length.

Article No.	Type	Connected load [W]	Luminous flux [lm]	Luminous efficacy [lm/W]	Weight [kg] (without packing material)
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## Design RFL - Ready for Light Management System

The luminaires are prepared for the subsequent use of a Light Management System. An integrated socket allows retrofitting of light management components without tools.



Exclusively D4i control gear is being used in RFL luminaires from SCHUCH.

All D4i Zhaga Book 18 certified controllers and D4i Zhaga Book 18 certified sensors available on the market can be used in combination with RFL luminaires from SCHUCH. Controllers and sensors which do not comply with the D4i standard can limit the functionality of the luminaires and components. Moreover, in individual cases, such non-certified components may cause damage to both the luminaires and the components.

### Product highlights of the RFL version:

- standardized Zhaga compliant sockets
- subsequent use of a lighting management system possible at any time
- tool-free, quick assembly of the Light Management System components



## 7700 ... / 7800... RFLO



**Floodlight / Plane Surface Floodlight with a socket on the top side of the luminaire**  
colour temperature 4.000K (light colour 740)

77002 0033	7700 3203 RFLO	70	11.360	162	9,5
77002 0034	7700 3203TB RFLO				
77002 0035	7700 3203T RFLO				
77002 0036	7700 3203A RFLO				
77002 0037	7700 4803 RFLO	106	16.790	158	9,7
77002 0038	7700 4803TB RFLO				
77002 0039	7700 4803T RFLO				
77002 0040	7700 4803A RFLO				
77002 0041	7700 6403 RFLO	140	21.940	157	9,7
77002 0042	7700 6403TB RFLO				
77002 0043	7700 6403T RFLO				
77002 0044	7700 6403A RFLO				
78002 0025	7800 6403 RFLO	140	22.650	162	15,9
78002 0026	7800 6403TB RFLO				
78002 0027	7800 6403T RFLO				
78002 0028	7800 6403A RFLO				
78002 0029	7800 12803 RFLO	280	43.920	157	17
78002 0030	7800 12803TB RFLO				
78002 0031	7800 12803T RFLO				
78002 0032	7800 12803A RFLO				

colour temperature 3.000K (light colour 730)

77002 0045	7700 3203 730 RFLO	70	10.790	154	9,5
77002 0046	7700 3203TB 730 RFLO				
77002 0047	7700 3203T 730 RFLO				
77002 0048	7700 3203A 730 RFLO				
77002 0049	7700 4803 730 RFLO	106	15.950	150	9,7
77002 0050	7700 4803TB 730 RFLO				
77002 0051	7700 4803T 730 RFLO				
77002 0052	7700 4803A 730 RFLO				
77002 0053	7700 6403 730 RFLO	140	20.840	149	9,7
77002 0054	7700 6403TB 730 RFLO				
77002 0055	7700 6403T 730 RFLO				
77002 0056	7700 6403A 730 RFLO				
78002 0033	7800 6403 730 RFLO	140	21.520	154	15,9
78002 0034	7800 6403TB 730 RFLO				
78002 0035	7800 6403T 730 RFLO				
78002 0036	7800 6403A 730 RFLO				
78002 0037	7800 12803 730 RFLO	280	41.720	149	17
78002 0038	7800 12803TB 730 RFLO				
78002 0039	7800 12803T 730 RFLO				
78002 0040	7800 12803A 730 RFLO				

All light fittings also available with connected cable (H07RN-F or NYM) in the required length.



Article No.	Type	Connected load [W]	Luminous flux [lm]	Luminous efficacy [lm/W]	Weight [kg] (without packing material)
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## 7700 ... / 7800... RFLU

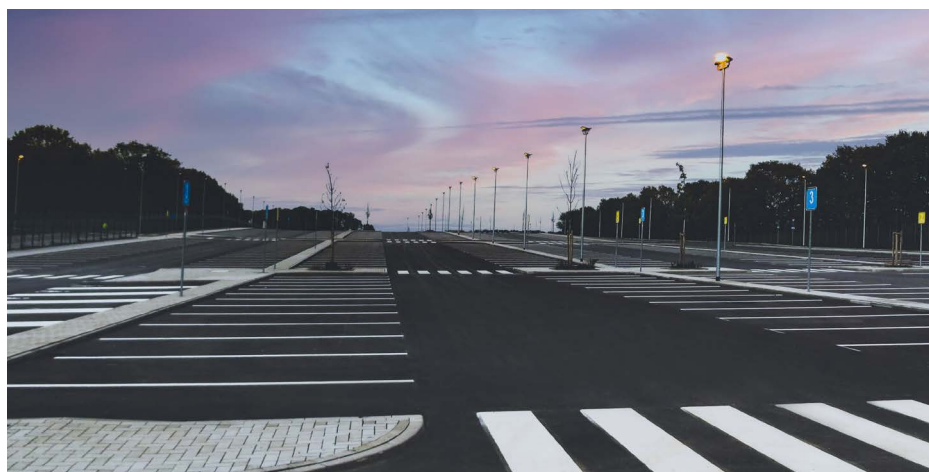


**Floodlight / Plane Surface Floodlight with a socket on the bottom side of the luminaire**  
colour temperature 4.000K (light colour 740)

77002 0001	7700 3203 RFLU	70	11.360	162	9,5
77002 0007	7700 3203TB RFLU				
77002 0010	7700 3203T RFLU				
77002 0004	7700 3203A RFLU				
77002 0002	7700 4803 RFLU	106	16.790	158	9,7
77002 0008	7700 4803TB RFLU				
77002 0011	7700 4803T RFLU				
77002 0005	7700 4803A RFLU				
77002 0003	7700 6403 RFLU	140	21.940	157	9,7
77002 0009	7700 6403TB RFLU				
77002 0012	7700 6403T RFLU				
77002 0006	7700 6403A RFLU				
78002 0001	7800 6403 RFLU	140	22.650	162	15,9
78002 0005	7800 6403TB RFLU				
78002 0007	7800 6403T RFLU				
78002 0003	7800 6403A RFLU				
78002 0002	7800 12803 RFLU	280	43.920	157	17
78002 0006	7800 12803TB RFLU				
78002 0008	7800 12803T RFLU				
78002 0004	7800 12803A RFLU				
77002 0014	7700 3203 730 RFLU	70	10.790	154	9,5
77002 0015	7700 3203TB 730 RFLU				
77002 0016	7700 3203T 730 RFLU				
77002 0023	7700 3203A 730 RFLU				

colour temperature 3.000K (light colour 730)

77002 0017	7700 4803 730 RFLU	106	15.950	150	9,7
77002 0018	7700 4803TB 730 RFLU				
77002 0019	7700 4803T 730 RFLU				
77002 0024	7700 4803A 730 RFLU				
77002 0020	7700 6403 730 RFLU	140	20.840	149	9,7
77002 0021	7700 6403TB 730 RFLU				
77002 0022	7700 6403T 730 RFLU				
77002 0025	7700 6403A 730 RFLU				
78002 0012	7800 6403 730 RFLU	140	21.520	154	15,9
78002 0013	7800 6403TB 730 RFLU				
78002 0014	7800 6403T 730 RFLU				
78002 0019	7800 6403A 730 RFLU				
78002 0015	7800 12803 730 RFLU	280	41.720	149	17
78002 0016	7800 12803TB 730 RFLU				
78002 0017	7800 12803T 730 RFLU				
78002 0018	7800 12803A 730 RFLU				





All light fittings also available with connected cable (H07RN-F or NYM) in the required length.



Article No.	Type	Connected load [W]	Luminous flux [lm]	Luminous efficacy [lm/W]	Weight [kg] (without packing material)
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## 7700 ... / 7800... RFLOU

IP66



Wind  
load area  
A = 0,15m²

**Floodlight / Plane Surface Floodlight with a socket on the top and bottom side of the luminaire**

**colour temperature 4.000K (light colour 740)**

77002 0057	7700 3203 RFLOU	70	11.360	162	9,5
77002 0031	7700 3203TB RFLOU				
77002 0058	7700 3203T RFLOU				
77002 0030	7700 3203A RFLOU				
77002 0059	7700 4803 RFLOU	106	16.790	158	9,7
77002 0060	7700 4803TB RFLOU				
77002 0061	7700 4803T RFLOU				
77002 0062	7700 4803A RFLOU				
77002 0063	7700 6403 RFLOU	140	21.940	157	9,7
77002 0064	7700 6403TB RFLOU				
77002 0065	7700 6403T RFLOU				
77002 0066	7700 6403A RFLOU				
78002 0041	7800 6403 RFLOU	140	22.650	162	15,9
78002 0042	7800 6403TB RFLOU				
78002 0043	7800 6403T RFLOU				
78002 0044	7800 6403A RFLOU				
78002 0045	7800 12803 RFLOU	280	43.920	157	17
78002 0046	7800 12803TB RFLOU				
78002 0047	7800 12803T RFLOU				
78002 0010	7800 12803A RFLOU				

**colour temperature 3.000K (light colour 730)**

77002 0067	7700 3203 730 RFLOU	70	10.790	154	9,5
77002 0068	7700 3203TB 730 RFLOU				
77002 0069	7700 3203T 730 RFLOU				
77002 0070	7700 3203A 730 RFLOU				
77002 0071	7700 4803 730 RFLOU	106	15.950	150	9,7
77002 0072	7700 4803TB 730 RFLOU				
77002 0073	7700 4803T 730 RFLOU				
77002 0074	7700 4803A 730 RFLOU				
77002 0075	7700 6403 730 RFLOU	140	20.840	149	9,7
77002 0076	7700 6403TB 730 RFLOU				
77002 0077	7700 6403T 730 RFLOU				
77002 0032	7700 6403A 730 RFLOU				
78002 0048	7800 6403 730 RFLOU	140	21.520	154	15,9
78002 0049	7800 6403TB 730 RFLOU				
78002 0050	7800 6403T 730 RFLOU				
78002 0020	7800 6403A 730 RFLOU				
78002 0051	7800 12803 730 RFLOU	280	41.720	149	17
78002 0052	7800 12803TB 730 RFLOU				
78002 0053	7800 12803T 730 RFLOU				
78002 0054	7800 12803A 730 RFLOU				

## RFL LIMAS HUB3 G2 / RFL LIMAS HUB3 G2 GPS SIM



## RFL LIMAS BM RAD HUB LPH max. 8m



## RFL LIMAS BM RAD MA LPH max. 10m



## RFL BM/DS IR HUB LPH max. 12m



## LIMAS USB-Dongle



## System components

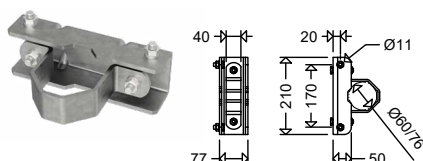
Article No.	Type	
90546 9010	RFL LIMAS HUB3 G2 GPS SIM	radio control with GPS antenna and photocell (twilight control) with integrated SIM card
90546 9014	RFL LIMAS HUB3 G2	radio control with photocell (twilight control)
90546 9011	RFL LIMAS BM RAD HUB LPH max. 8m	radio control with integrated radar motion sensors
90546 9012	RFL LIMAS BM RAD MA LPH max. 10m	radio control with integrated radar motion sensors for pole mounting
90546 9000	RFL DS20 HUB 20lux ON/OFF	twilight switch for autonomous control of RFLO luminaires
90546 9004	RFL BM/DS IR HUB LPH max. 8m	infrared motion sensor - can only be used in conjunction with RFL LIMAS HUB3 G2 and RFL LIMAS HUB3 G2 GPS SIM
90546 9018	RFL BM/DS IR HUB LPH max. 12m	infrared motion sensor / twilight switch - also for standalone operation

Other sensors, e.g. environmental sensors (fine dust, CO<sub>2</sub>, weather station etc.) on request.

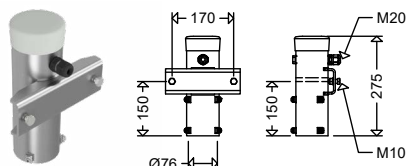
## Control components

Article No.	Type	
90545 0001	LIMAS Dongle USB	enables programming/setup of LIMAS components on site using software and Windows operating system
90546 9010	RFL LIMAS HUB3 G2 GPS SIM	control element with photocell/ twilight switch, GPS antenna and SIM card

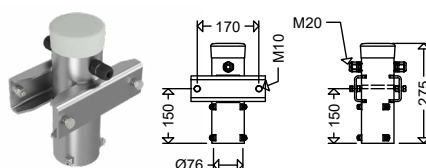
## Pipe clamp fastening: ROB 60/76 G2



## Single mounting: MAU 1 76/170 M10



## Double mounting: MAU 2 76/170 M10



All pole top brackets made of galvanised steel. Painting in any RAL colour for additional charge.

## Accessories / Spare Parts

Article no.	Type	
78001 9002	ABD 7700	cover, pane safety glas clear, for 7700...
78001 9001	ABD 7800	cover, pane safety glas clear, for 7800...
75739 9001	MAU 1 76/170 M10	Pole top for single mounting, Ø 76 mm, galvanized steel
75739 9002	MAU 2 76/170 M10	Pole top for double mounting, Ø 76 mm, galvanized steel
90270 0006	ROB 60/76 G2	pipe clamp for direct pole mounting or on multiple post top adapters; galvanised steel
90120 9011	2530	plastic cable gland M20 x 1,5 black
75350 0034	SD 7700 ST	vibration absorbing suspension device for series 7700, galvanised steel
75350 0033	SD 7800 ST	vibration absorbing suspension device for series 7800, galvanised steel