

# Technical information

## Ground bars

MECHANICAL CHARACTERISTICS							
Steel quality		C%	Mn%	Si%	P%	S%	V%
20MnV6	corresp. to SS 2142	0.16-0.22	1.30-1.70	0.10-0.50	max. 0.035	max. 0.035	0.10-0.20
C45	corresp. to SS1672	0.42-0.50	0.50-0.80	max. 0.40	max. 0.035	max. 0.035	

MECHANICAL CHARACTERISTICS								
Yield strength MPa		Tensile strength MPa	Extension A <sub>5</sub> %	Hardness HB	Tolerance	Surface fineness Ra	Straightness	Fabrication length mm
20MnV6	min. 450	min. 600	min. 18	180 - 200	ISO h8	max. 0.5 my	0.5:1000 mm	approx. 6000
C45	min. 350	min. 620	min. 17		ISO h8	max. 0.5 my	0.5:1000 mm	approx. 6000

## Colour marking of bar quality

Bar qualities	Colour
S355 J2	Black
Hydax	Black/yellow
520M / 2142 M	Yellow-green
25CrMoS4 (SS 2225)	Olive green
42CrMoS4 (SS 2244)	Brown
34CrNiMo6 (SS 2541-03)	Ruby red
C45R (SS 1672-08)	Green
16NiCrS4 (SS 2511-08)	Grey-blue

The various material qualities are marked on the end with a colour code, as illustrated.