



TECHNICAL SPECIFICATIONS



TYPE:

Hot-Rolled Bars of THN section



STEEL GRADE:

31Mn4 according to DIN 21544



FORM - DIMENSIONS:

Straight bars with mass 16,50 / 20,92 / 29,00 Kg/m



LENGTH - TOLERANCE:

Bar length 6 to 12m with tolerance + / -50mm



PACKING - WEIGHT:

Bundles weighing approximately 5,200kg



DIMENSIONS - WEIGHT - TOLERANCES:

According to FN SPP -02 -98

THN MINING PROFILES



THN Mining Profiles have been developed for uses in the production of steel arches for public works and underground mines, as well as formworks for tunnels.

The use of THN profiles in tunnels and roadways supporting, provides a higher resistance and a yielding support.

SALES NETWORK

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SPECIAL PROFILES

BORON FLATS - THN MINING PROFILES - PLOUGHSHARE BLADES - RAILWAY CONNECTIONS



STEEL CHEMICAL COMPOSITION & MECHANICAL PROPERTIES

STEEL GRADE	CHEMICAL COMPOSITION			MECHANICAL PROPERTIES		
	C (%) max	P (%) max	S (%) max	YIELD STRENGTH (N/mm ²) min	TENSILE STRENGTH (N/mm ²)	ELONGATION 5d ₀ (%) min
31Mn4	0.36	0.045	0.045	350	550	18

GEOMETRICAL CHARACTERISTICS OF CROSS SECTIONS

MASS (kg/m)	CROSS SECTION F cm ²	INERTIA MOMENTS		RESISTING MOMENTS	
		J _x cm ⁴	J _y cm ⁴	W _x cm ³	W _y cm ³
16.50	21.02	186	223	40	42
20.92	26.65	324	398	61	64
29.00	37.00	616	775	94	103