

## ● Mining Support Sections

### Steel Qualities

Any grades covered by the standards DIN, NF etc. are available.

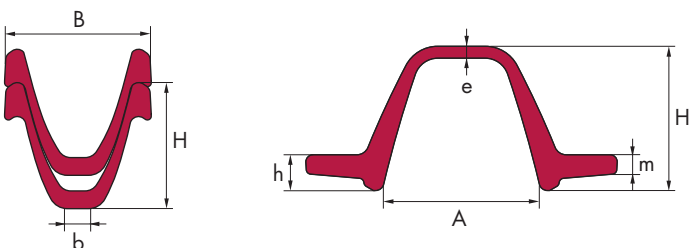
The grades 31 MN4(V) and TH 520, in sections TH 29 - TH 34 - TH 40 - TH 42 are obtained by Q.S.T., a Quenching and Self Tempering on-line-process.

### Mechanical Properties

Designation	Yield Strength	Tensile Strength	Elongation (5D)	Notch impact test (DVM in aged condition 10%)
DIN 21544 NF A 35256 31 MN 4 (U) TH 350	$\geq 350 \text{ N/mm}^2$	$\geq 520 \text{ N/mm}^2$	$\geq 18\%$	$\geq 18 \text{ J}$
31 MN 4 (V) TH 520 QST	$\geq 520 \text{ N/mm}^2$	$\geq 650 \text{ N/mm}^2$	$\geq 19\%$	$\geq 60 \text{ J}$

### TH Sections and Mining Section Clamp

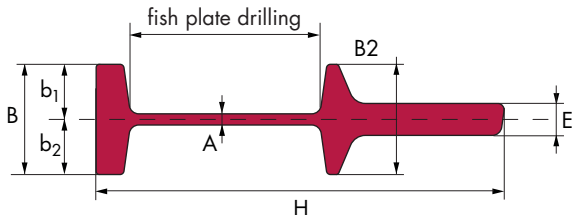
(ex rolling mill ARES)

									
Designation	Weight	Area of section	Dimensions			Section Properties			
	kg/m	cm <sup>2</sup>	B mm	b mm	H mm	x-x axis		y-y axis	
						I <sub>x</sub>	W <sub>x</sub>	I <sub>y</sub>	W <sub>y</sub>
						cm <sup>4</sup>	cm <sup>3</sup>	cm <sup>4</sup>	cm <sup>3</sup>
TH 29/58	29	37	150	44	124	598	99,6	799	106
TH 34/58	33,9	43,14	171	50,5	136,5	892	128	1205	141
TH 36/58	35,9	45,7	171	50,5	138	969	136	1265	148
TH 40/58	39,9	50,84	172	50	145	1125	155	1446	168
TH 42/58	41,8	53,25	172	50	146,4	1197	163,5	1505	175
TH 44/58	43,7	55,7	172	50	147,8	1265	171	1564	182

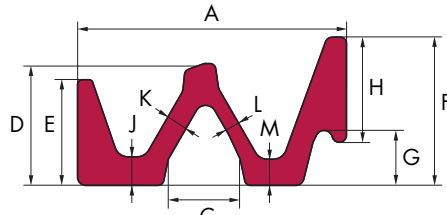
  

Designation	Weight	Area of section	Dimensions				Section Properties			
	kg/m	cm <sup>2</sup>	H mm	A mm	e mm	h mm	x-x axis		y-y axis	
							I <sub>x</sub>	W <sub>x</sub>	I <sub>y</sub>	W <sub>y</sub>
							cm <sup>4</sup>	cm <sup>3</sup>	cm <sup>4</sup>	cm <sup>3</sup>
GTHN 29	40,69	51,84	112,5	118	11	30,5	606,1	107,7	2136,903	184,2
36 Clamp	48,9	62,3	121	133	10	30	803,66	117	3422,95	262
For Zores T.H. 36-58										

## Monorail

				
Designation	Weight	Area of section	Dimensions	
	kg/m	cm <sup>2</sup>	H mm	B mm
Monorail	40,5	51,6	255,4	69

## Conveyer Section

								
Designation	Weight	Area of section	Dimensions		Section Properties			
	kg/m	cm <sup>2</sup>	A mm	F mm	x-x axis		y-y axis	
					I <sub>x</sub>	W <sub>x</sub>	I <sub>y</sub>	W <sub>y</sub>
					cm <sup>4</sup>	cm <sup>3</sup>	cm <sup>4</sup>	cm <sup>3</sup>
E 74 VS	77,1	98,2	225	124	5586	482	930	122

