QUARTO PLATES
Grade: NM400
Abrasion Resistant Steel

Grade	**NM400**
Norm	**----**
W. Nr.	**-----**
Rolling State	**Quenched and Tempered Quarto Plates**
Description	400HB is a wear resistant steel with a hardness of 400 HBW, joined by high strength and excellent impact toughness. The superior resistance of NM400 allows significant savings in all the heavy applications where longer lifespan, lower weights, energy efficency and good weldability are of essence. All plates in NM400 are: - **fully killed and fine-grain treated** **- trimmed on all four edges,** **- shotblasted,** **- primerized** **- UT tested according to EN10160 S1E1**
Applications	Civil engineering, buildings and structures, industrial machineries, agricultural equipment, shipbuilding and all the applications that require long duration, low weight, high performances and excellent weldability.

Standard coils' stock range

	Quarto plates 2000x6000	Quarto plates 2500x6000
5	•	•
6	•	•
8		•
10		•
12	•	•
15		•
20		•
25		•
30		•
40		•
50		•
60		•
80		•
100		•
120		•
150		•

At times, some of the dimensions listed here might be unavailable: please make sure to get in touch with our sales department for a real-time update about the actual stock availability.

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SIDASTICO
passion for steel

Chemical composition

Please ask for the actual MTC for precise figures, following info is merely indicative

Element	Al	B	C	Ceq	Cr	Cu	Mo	Mn	N
Min.									
Max		0,004	0,320		1,400		0,600	1,600	

Element	Ni	Nb	P	S	Si	Sn	Ti	V	Zr
Min.									
Max	1,500			0,01	0,700				

Mechanical properties

All following info is merely indicative, as figures vary greatly with thickness

Nominal Thickness (mm)	mm6-120
HBW at room temperature 1-3mm below the surface	370 - 430

Longitudinal Notch Impact Energy (J) at -40°C, guaranteed	20
Longitudinal Notch Impact Energy (J) at -40°C: typical result on 20mm thick plate, not guaranteed.	40

Typical results on thickness 20mm, not guaranteed	20mm
Total Elongation A50% (transversal)	13
Yield Strength (Re, MPa)	1000
Tensile Strength (Rm, Mpa)	1250

Temperature (°C)	-60°C	-40°C	-20°C	0°C
Longitudinal Notch Impact Energy (J)	30	40	50	60
Transversal Notch Impact Energy (J)	27	30	35	40

Charpy V-test acc. to EN10045-1

Tolerances

Dimensional Tolerances
Thickness EN10029 Class A
Width and Length EN10029
Flatness EN10029 Class N
Surface Status
UNI EN 10163-2 Class A

Further information

Please apply with sales@sidastico.com for more info about fabrication.
The instructions of the Mill about CEV/CET max and typical, thermal cutting, cold forming, welding and machining are available on your demand.

Certifications

MTC according to EN10204-3.1