

## RQT 601® Data Sheet

**RQT 601® is a quench and tempered structural steel, combining high strength with excellent forming and welding performance.**

### Chemical composition

Thickness* (mm)		C (%)	Si (%)	Mn (%)	S (%)	P (%)	Cr (%)	Mo (%)	Nb (%)	V (%)	Ni (%)	Cu (%)	B (%)
8 ≤ t ≤ 80	max.	0.20	0.50	1.60	0.010	0.025	1.00	0.60	0.06	0.08	1.00	0.40	0.004

\* Other gauges available by agreement.

### RQT 601® is offered with the following CEV:

Thickness (mm)	Maximum ladle CEV* (%)
8 ≤ t ≤ 25	0.43
25 < t ≤ 80	0.55

\* Other maximum CEV available by agreement.

### Mechanical properties

Thickness (mm)	Minimum yield strength (MPa)	Tensile strength (MPa)	Minimum elongation on 50mm gauge length (%)	Minimum average impact energy*	Minimum individual impact energy*
8 ≤ t ≤ 40	620	690 - 850	19	27 J @ -45 °C	20 J @ -45 °C
40 < t ≤ 80	550	670 - 850	19	27 J @ -45 °C	20 J @ -45 °C

\* Longitudinal Charpy V notch, transverse available by agreement

Testing in accordance with BS EN ISO 6892, BS EN 10045

For plate thicknesses below 12.5mm reduced section Charpy test pieces are used with proportionate reduction of energy values.

## Dimensions

RQT 601® is available in thicknesses 8mm to 80mm. Width and length availability is given in table 4 of the Plate products range of sizes brochure.

## Tolerances

The manufacturing tolerances for RQT 601® are in compliance with EN10029:1991.

Surface quality of RQT 601® is compliant with EN10163:2004 class A subclass 1.

Other tolerances are available by agreement.

## Fabrication and Welding

RQT 601® can be readily processed following the guidelines available in the RQT Fabrication guide.

## Further Information

For any queries regarding product application, metallurgy or mechanical properties please contact our Technical Advisory Service +44 (0) 1724 402106 or email: [plates.technical@corusgroup.com](mailto:plates.technical@corusgroup.com)

All other enquiries may be directed to your account team, or contact us using the details below.

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