

## EN 10024:2004 for hot-rolled structural steels

An EN standard for hot-rolled structural steels EN 10 025: 2004 has now been issued. The new EN 10025 standard now also incorporates EN 10113 and EN 10137. Part 1 of the new standard contains general requirements that are applicable to all of the other parts -2, -3, -4, -5 and -6. Our products are covered or may be covered by parts -2, -3, -4 and -6. In the new standard, most of the steel grades have retained their designations. A number of steel grades in part 2, non-alloy structural steels, have been withdrawn.

### List of equivalent earlier standard designations

Designation of new EN standard: 2004	Equivalent earlier EN designations
EN 10025-2 (and EN 10 025-1)	EN 10025+A1: 1993
EN 10025-3 (and EN 10 025-1)	EN 10113-2 (and EN 10 113-1): 1993
EN 10025-4 (and EN 10 025-1)	EN 10113-3 (and EN 10 113-1): 1993
EN 10025-6 (and EN 10 025-1)	EN 10137-2 (and EN 10 137-1): 1995

### New revised standard for structural steels

EN 10025-1	“General technical delivery conditions”
EN 10025-2	“Technical delivery conditions for a non-alloy structural steels”
EN 10025-3	“Technical delivery conditions for normalised/normalised rolled weldable fine grain structural steels”
EN 10025-4	“Technical delivery conditions for thermomechanically rolled weldable fine grain structural steels”
EN 10025-6	“Technical delivery conditions for flat products of high yield strength structural steels in quenched and tempered condition”

### General amendments/additions that apply to all parts of the standard

- CEV max introduced as a requirement.
- Minor composition adjustments introduced.
- Surface condition requirements EN 10163-2, Class A, Sub-class 1 now specified in the standard.
- Thickness tolerance as per EN 10029, Class A now specified in the standard.
- The meaning of the numbering of the options has been altered. Part 1 specifies 10 options that are common to all parts. Parts 2–6 have their own uniquely adapted options with numbering from 11. It is important to check that the correct option is used.

## EN 10025-2

### Technical delivery conditions for non-alloy structural steels

Amendments in relation to the 1993 issue of EN 10025+A1

In addition to the general amendments:

- Wider tensile strength range for S235 and S355,  $t > 100$  mm.

Designation as per EN 10025-2:2004	Designation as per EN 10 025:1990 +A1:1993	Remarks	Comments
	S235JR	Withdrawn	
	S235JRG1	Withdrawn	
S235JR	S235JRG2	Changed	
S235J0	S235J0		
	S235J2G3	Withdrawn	Delivery condition N, normalizing/normalizing rolled
S235J2	S235J2G4	Changed	Delivery condition AR, as-rolled, or N at the manufacturer's discretion
S275JR	S275JR		
S275J0	S275J0		
	S275J2G3	Withdrawn	Delivery condition N
S275J2	S275J2G4	Changed	Delivery condition AR or N
S355JR	S355JR		
S355J0	S355J0		
	S355J2G3	Withdrawn	Delivery condition N
S355J2	S355J2G4	Changed	Delivery condition AR or N
	S355K2G3	Withdrawn	Delivery condition N
S355K2	S255K2G4	Changed	Delivery condition AR or N

## EN 10025-3

### Technical delivery conditions for normalised/normalised rolled weldable fine grain structural steels

Amendments in relation to the 1993 issue of EN 10113-2. No changes besides the general amendments.

Designation as per EN 10025-3:2004	Designation as per EN 10 113-2:1993
S275N	S275N
S275NL	S275NL
S355N	S355N
S355NL	S355NL
S420N	S420N
S420NL	S420NL
S460N	S460N
S460NL	S460NL

## EN 10025-4

### Technical delivery conditions for thermomechanically rolled weldable fine grain structural steels

Amendments in relation to the 1993 issue of EN 10113-3. In addition to the general amendments:

- Max. thickness of heavy plate 63 mm  $\Rightarrow$  120 mm

Designation as per EN 10025-4:2004	Designation as per EN 10113-3:1993
S275M	S275M
S275ML	S275ML
S355M	S355M
S355ML	S355ML
S420M	S420M
S420ML	S420ML
S460M	S460M
S460ML	S460ML

## Comments on EN 10025-5

### EN 10025-5

“Technical delivery conditions for structural steels with improved atmospheric corrosion resistance – also known as weathering steels.” Steels in this part are not included in our product range. Have the designations SxxxxyW, -WP.

### EN 10025-6

#### Technical delivery conditions for flat products of high yield strength structural steels in the quenched and tempered condition

Amendments in relation to 1993 issue of EN 10137-2

No changes besides the general amendments.

Designation as per EN 10025-6:2004	Designation as per EN 10137-2:1995
S460Q	S460Q
S460QL	S460QL
S460QL1	S460QL1
S500Q	S500Q
S500QL	S500QL
S500QL1	S500QL1
S550Q	S550Q
S550QL	S550QL
S550QL1	S550QL1
S620Q	S620Q
S620QL	S620QL
S620QL1	S620QL1
S690Q	S690Q
S690QL	S690QL
S690QL1	S690QL1
S890Q	S890Q
S890QL	S890QL
S890QL1	S890QL1
S960Q	S960Q
S960QL	S960QL



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