Table 1 — Maximum depth of acceptable discontinuities for bars, rods and sections

Conditions	Product forms	Permissible depth of discontinuities [a]	Max. % of delivered weight in excess of permissible depth of discontinuities
1U, 1C, 1E, 1D	Sections	To be agreed upon at the time of enquiry and order on the basis of EN 10163-3.	
1U, 1C, 1E, 1D	Rounds and rod	Unless not specified otherwise at the time of enquiry and order: EN ISO 9443 - class A.	
1X [b], 2H [b], 2D [b]	Rounds	- max. 0,2 mm for d ≤ 20 mm - max. 0,01 d for 20 < d ≤ 75 mm - max. 0,75 mm for d > 75 mm	1 %
	Hexagons	- max. 0,3 mm for d ≤ 15 mm - max. 0,02 d for 15 < d ≤ 63 mm	2 %
	Other bars	- max. 0,3 mm for d ≤ 15 mm - max. 0,02 d for 15 < d ≤ 63 mm	4 %
1G, 2B, 2G, 2P	Rounds	Technically defect free by manufacture.	0,2 %

[a] Depth of discontinuities is understood as being the distance, measured normally to the surface, between the bottom of the discontinuities and that surface.

[b] At the time of enquiry and order it may be agreed that the product shall be delivered with a surface being technically defect free by manufacture. In this case, also the maximum % of delivered weight in excess of permissible depth of discontinuities shall be agreed.

For further information, e.g. roughness in conditions 2G and 2P, see Table 7.

For wires supplied in 2H condition according to Table 18 or 2B according to Table 19 the surface quality shall be agreed upon at the time of enquiry and order.

6.7 Internal soundness

The products shall be free of internal defects which would exclude them from being used for their usual purpose. At the time of enquiry and order ultrasonic testing of H-beams with parallel flanges and IPE-beams may be agreed in accordance with EN 10306 and ultrasonic testing of steel bars may be agreed in accordance with EN 10308.

6.8 Formability at room temperature

Cold formability may be verified by elongation in the tensile test.

6.9 Dimensions and tolerances on dimensions and shape

The dimensions and the tolerances on dimensions shall be agreed at the time of enquiry and order, as far as possible with reference to the dimensional standards listed in Table 7 and in Annex D.

6.10 Calculation of mass and tolerances on mass

6.10.1 The nominal mass shall be calculated by using the steel density given in Annex E of EN 10088-1:2023 and the nominal dimensions of the steel product.

6.10.2 The dimensional standards listed in Table 7 or in Annex D do not specify tolerances on mass, which therefore may be agreed at the time of enquiry and order.