

DIN 875-1:2005-07 (E)

Geometrical Product Specifications (GPS) - Squares 90 ° - Part 1: Steel squares 90°

Contents

	Page
Foreword	3
1 Scope	4
2 Normative references	4
3 Terms and definitions.....	4
4 Dimensions, designation.....	4
4.1 Dimensions.....	4
4.2 Designation	7
5 Requirements	7
5.1 Reference temperature	7
5.2 Tolerances of form and position	7
5.2.1 Perpendicularity tolerance for interior and exterior angles.....	8
5.2.2 Flatness tolerance or straightness tolerance	9
5.3 Bevels	10
6 Material	10
6.1 For type A, B and D squares	10
6.2 For squares with knife edge (type C) and squares with knife edge and short wide stock (type E)	10
7 Design.....	10
8 Testing	11
8.1 Deviation from perpendicularity and deviation from flatness or straightness	11
8.2 Determination of conformity to the specification	11
9 Marking	11
10 Information on use	11

Figures

Figure 1 — Flat square (type A)	5
Figure 2 — Square with foot (type B)	5
Figure 3 — Square with knife edge (type C).....	6
Figure 4 — Square with short wide stock (type D)	6
Figure 5 — Square with knife edge and short wide stock (type E)	7

Tables

Table 1 — Dimensions.....	4
Table 2 — Formulae for the perpendicularity tolerance of test faces	8
Table 3 — Perpendicularity tolerances	8
Table 4 — Formulae for the flatness tolerance or straightness tolerance.....	9
Table 5 — Flatness tolerances or straightness tolerances	9