

Table 1: Tolerances for linear dimensions

Tolerance class	Range of nominal sizes, L , in mm										
	2 to 30	Over 30 up to 120	Over 120 up to 400	Over 400 up to 1 000	Over 1 000 up to 2 000	Over 2 000 up to 4 000	Over 4 000 up to 6 000	Over 6 000 up to 12 000	Over 12 000 up to 16 000	Over 16 000 up to 20 000	Over 20 000
	Tolerances, t , in mm										
A	± 1	± 1	± 1	± 2	± 3	± 4	± 5	± 6	± 7	± 8	± 9
B		± 2	± 2	± 3	± 4	± 6	± 8	± 10	± 12	± 14	± 16
C		± 3	± 4	± 6	± 8	± 11	± 14	± 18	± 21	± 24	± 27
D		± 4	± 7	± 9	± 12	± 16	± 21	± 27	± 32	± 36	± 40

4.2 Tolerances for angular dimensions

The length of the shorter angle leg shall be used to determine, on the basis of table 2, which tolerances are to apply. The length of the leg may also be assumed to extend to a specified reference point. In this case, the reference point concerned shall be indicated on the drawing.

See table 2 for the relevant tolerances.

Figures 1 to 5 show examples of how the shorter angle leg, L , is to be represented.

4.3 Straightness, flatness and parallelism tolerances

The straightness, flatness and parallelism tolerances as specified in the table 3 apply both for the overall dimensions of a weldment, a welding assembly, or a welded structure, and also for sections for which the dimensions are indicated.

Other tolerances of form and position (e.g. coaxiality and symmetry tolerances) have not been specified. If such tolerances are required for functional reasons, they shall be indicated on the drawings, as specified in prEN ISO 1101.

5 Indications on drawings

The designation of the selected tolerance class as specified in tables 1 and 2 (e.g. EN ISO 13920-B) or its combination with a tolerance class as specified in table 3 (e.g. EN ISO 13920-BE), shall be entered in the appropriate area on the drawing.

Table 2: Tolerances for angular dimensions

Tolerance class	Range of nominal sizes, L , in mm (length or shorter leg)		
	Up to 400	Over 400 up to 1 000	Over 1 000
	Tolerances, $\Delta\alpha$, (in degrees and minutes)		
A	± 20	± 15	± 10
B	± 45	± 30	± 20
C	$\pm 1^\circ$	± 45	± 30
D	$\pm 1^\circ 30'$	$\pm 1^\circ 15'$	$\pm 1^\circ$
	Calculated and rounded tolerances, t , in mm/m ¹⁾		
A	± 6	$\pm 4,5$	± 3
B	± 13	± 9	± 6
C	± 18	± 13	± 9
D	± 26	± 22	± 18

¹⁾ The value indicated in mm/m corresponds to the tangent value of the general tolerance. It is to be multiplied by the length, in m, of the shorter leg.

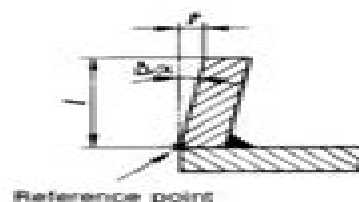


Figure 1

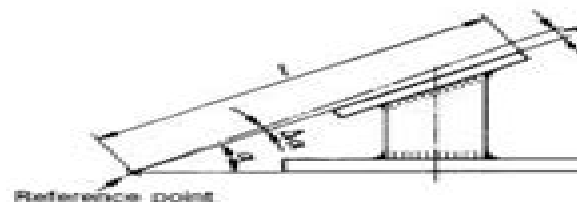


Figure 2

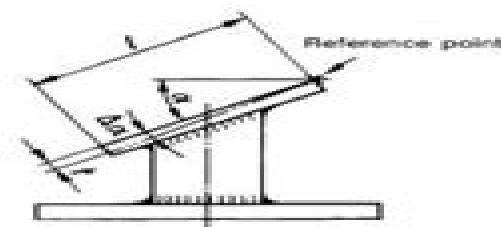


Figure 3

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1. Understanding the eBook Standard Din En Iso 13920
 - The Rise of Digital Reading Standard Din En Iso 13920
 - Advantages of eBooks Over Traditional Books
2. Identifying Standard Din En Iso 13920
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Standard Din En Iso 13920
 - User-Friendly Interface
4. Exploring eBook Recommendations from Standard Din En Iso 13920
 - Personalized Recommendations

- Standard Din En Iso 13920 User Reviews and Ratings
- Standard Din En Iso 13920 and Bestseller Lists
- 5. Accessing Standard Din En Iso 13920 Free and Paid eBooks
 - Standard Din En Iso 13920 Public Domain eBooks
 - Standard Din En Iso 13920 eBook Subscription Services
 - Standard Din En Iso 13920 Budget-Friendly Options
- 6. Navigating Standard Din En Iso 13920 eBook Formats
 - ePub, PDF, MOBI, and More
 - Standard Din En Iso 13920 Compatibility with Devices
 - Standard Din En Iso 13920 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Standard Din En Iso 13920
 - Highlighting and Note-Taking Standard Din En Iso 13920
 - Interactive Elements Standard Din En Iso 13920
- 8. Staying Engaged with Standard Din En Iso 13920
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Standard Din En Iso 13920
- 9. Balancing eBooks and Physical Books Standard Din En Iso 13920
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Standard Din En Iso 13920
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Standard Din En Iso 13920
 - Setting Reading Goals Standard Din En Iso 13920
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Standard Din En Iso 13920
 - Fact-Checking eBook Content of Standard Din En Iso 13920

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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