Welding Symbols
(ISO 2553)
ELEMENTARY WELD SYMBOLS

Square Groove Weld

Single V Groove Weld
ELEMTARY WELD SYMBOLS

Single Bevel Groove Weld

Single V Groove Weld with Broad Root Face
ELEMENTARY WELD SYMBOLS

Single Bevel Groove Weld with Broad Root Face

Single U Groove Weld
ELEMEKTARY WELD SYMBOLS

Single J Groove Weld

Backing Weld
ELEMENTARY WELD SYMBOLS

Fillet Weld

Plug / Slot Weld
ELEMENTARY WELD SYMBOLS

Spot Weld

Seam Weld
ELEMENTARY WELD SYMBOLS

Edge Weld

Surfacing
SUPPLEMENTARY SYMBOLS

Weld Profile

- Flat
- Convex
- Concave
SUPPLEMENTARY SYMBOLS

Toes blended smoothly

Permanent Backing Strip

Removable Backing Strip
SUPPLEMENTARY SYMBOLS

Peripheral Welds
SUPPLEMENTARY SYMBOLS

Site welds
SUPPLEMENTARY SYMBOLS

Tail Optional)

Sequence of Information in the Tail

• Process (as per ISO 4063)
• Acceptance Level (as per ISO 5817 or ISO 10042)
• Working Position (as per ISO 6947)
• Filler Materials (as per ISO 544 or ISO 2560 or ISO 3581)
EXAMPLES OF APPLICATION

Method of representation

- Arrow Line
- Reference Line (Continuous)
- Reference Line (Dashed)
- Weld Joint
EXAMPLES OF APPLICATION

Welding on the Arrow Side

Arrow Side

Other Side
EXAMPLES OF APPLICATION

Welding on the Other Side

Arrow Side

Other Side
EXAMPLES OF APPLICATION

Welding on the Other Side

Other Side

Arrow Side

Diagram showing welding on the other side.
EXAMPLES OF APPLICATION

Welding on the Arrow Side
EXAMPLES OF APPLICATION

Which is the Other Side in this case?

Side B

Side C

Side A

Side D
EXAMPLES OF APPLICATION

Welding on both Sides

Arrow Side

Other Side
EXAMPLES OF APPLICATION
Symmetric Welding on both Sides
EXAMPLES OF APPLICATION

Pointing of Arrows for Bevel and J Joints

OR

OR
EXAMPLES OF APPLICATION

Pointing of Arrows for Bevel and J Joints
DIMENSIONING OF WELDS

Butt Joints

\[ l \]

\[ s \]
DIMENSIONING OF WELDS

Fillet Welds

z5

a5

5

5

5

5
DIMENSIONING OF WELDS

Fillet Welds
DIMENSIONING OF WELDS

Intermittent Fillet Welds
DIMENSIONING OF WELDS
Staggered Intermittent Fillet Welds
DIMENSIONING OF WELDS

Spot Weld

d
n (e)
DIMENSIONING OF WELDS

Seam Weld

\[ d \otimes \text{n x l (e)} \]
DIMENSIONING OF WELDS

Plug Weld

Diagram showing the dimensions of a plug weld with labels for d and n (e).
DIMENSIONING OF WELDS

Slot Weld

\[ d \times n \times l \ (e) \]