Sketch a Nail: Head, Shank, and Point Construction

Topic reference / ordinary illustration



Ordinary topic reference. Hypothetical dimensions in the four tasks are supplied in their own text; this illustration is not their measured answer.

Sketch a Nail: Head, Shank, and Point Construction

Worked example / complete source key

Construct a side-view nail sketch with total length 50 mm using the lesson convention: head 10 percent, shank 75 percent, point 15 percent, head width 10 mm, head height 5 mm, shank width 4 mm. Describe the construction and check the arithmetic.

Answer: Zones: head 5 mm, shank 37.5 mm, point 7.5 mm; sum 50 mm. Draw a baseline, mark boundaries at 5 mm, 42.5 mm, and 50 mm. Draw a flat head 10 mm wide and 5 mm high centered on the axis. Draw parallel shank lines 2 mm either side of the centerline for 37.5 mm. Taper from the shank edges to a tip on the centerline over 7.5 mm. Label head, shank, point, and total length. Check: 5 + 37.5 + 7.5 = 50; head width 10 mm is greater than shank width 4 mm; shank symmetry within 1 mm; one tip on the centerline.