

T 90 Fire-Resistant Door Set Model BERTSCH FH-90-S-OTB

single-leaf fire-resistant door set T 90-1 with overpanel and steel frame assembly

Classification according to DIN / EN

Features:	Fire-Resistance Rating	T 90-1, fire-retardant according to DIN 4102 and EN 1634, approval no. Z-6.20-1846
	Smoke Protection	according to DIN 18095 in combination with retractable door bottom seal → see additional services T 30 / RS / T 90
	Soundproofing	Rw,P = 32 dB as per DIN 4109 in combination with retractable door bottom seal ¹ → see additional services T 30 / RS / T 90

Guidelines

Installation:	To be installed according to the General Building Approval and the Installation Instructions.
Wall Types:	masonry (thickness ≥ 115 mm) as per DIN 1053, part 1 concrete (thickness ≥ 100 mm) as per DIN 1045 aerated concrete blocks or panels as per DIN 4165 → see additional services T 30 / RS / T 90 F 90 frame walls as per DIN 4102, part 2
Basic Dimensions:	Width 750 mm to 1,250 mm Height 1,750 mm to 3,580 mm

Door Leaf

Performance Class:	Mechanical stress of class 4 or E (extremely high) as per DIN EN 1192.
Visible Edges:	Solid timber edge bands, clear finished beech.
Surface:	Veneer surfaces are UV-clear finished. Untreated Hardboard and Priming Film surfaces not coated.
Door Thickness:	approx. 58 mm
Rebate:	Special 13 / 46 mm rebate on three sides, unrebated on the lower side. Optionally unrebated on four sides.
Lock:	Fire-resistant profile cylinder lock, class 4 as per DIN 18250 part 1, stainless steel face plate, 65 mm backset, fitted. Includes slots for handle and profile cylinder, handle height 1,050 mm from the finish floor as per DIN.
Hinges:	2 or 3 fitted VX hinges, nickel-plated. For doors higher than 2,235 / 2,222 mm - 3 hinges.
Fittings:	Fire-retardant door closer according to DIN EN 1154, with standard arm, silver-colored, supplied separately. Designed for standard installation on the hinge side. Fire-retardant handle certified according to EN 1906, black-colored, with short face plate for profile cylinder locks, supplied separately.
Overpanel:	Overpanel holder, bottom rebate with ledge, veneered surface.

Frame

Type:	Single-part steel wrap-around frame certified according to DIN 18111, 1.5 mm galvanized steel sheet, mitre fillets, includes size markings, built-in holder for overpanel.
Surface:	Primer coating, ready for final treatment.
Sealing:	Special seal on three sides, gray-colored (supplied separately).
Face Width:	Hinge side - 35 mm, opposite hinge side - 30 mm (50 mm for frames designed for plasterboards).
Backbend:	10 mm for load-bearing and plasterboard walls.
Floor Recess:	30 mm (no recess for stud wall door frames and for two-part frames).
Rebate:	Designed for a special 13 / 46 mm rebate in the door leaf as well as for unrebated leaves.
Hinge:	2 or 3 weld-pockets VX 7611 3D.

For other options, see Additional services for T 30 / RS / T 90

¹please check the availability of approved designs.