

T 90 Fire-Resistant Door Set Model BERTSCH FH-90/2-S-OTB

double-leaf fire-resistant door set T 90-2 with overpanel and steel frame assembly

Classification according to DIN / EN

Features:	Fire-Resistance	T 90-2, fire-retardant according to DIN 4102 and EN 1634, approval no. Z-6.20-
	Rating	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 1,375 mm to 2,550 mm Height 2,250 mm to 3,580 mm
Leaf Widths:	Variable for fixed leaf, but from 700 to 1,300 mm for the movable leaf.

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:	Standard 13 / 25.5 mm rebate on three sides, unrebated on the lower side, fixed leaf with a rebate ledge, screws exposed. Optionally unrebated on three sides, central rebate and rebate ledge as above.
Lock:	Movable Leaf: 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. Fixed Leaf: rebate retracting bolt lock with a switch lock, locks automatically in upper and lower positions, includes ground sleeve (supplied separately).
Hinges:	4 or 6 fitted VX hinges, nickel-plated. For doors higher than 2,235 / 2,222 mm - 3 hinges.
Fittings:	Fire-retardant door closer with slide arm according to DIN EN 1154 with integrated closing sequence control, silver-colored, supplied separately. Frame 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:	4 or 6 weld-pockets VX 7611 3D.

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

¹please check the availability of approved designs.