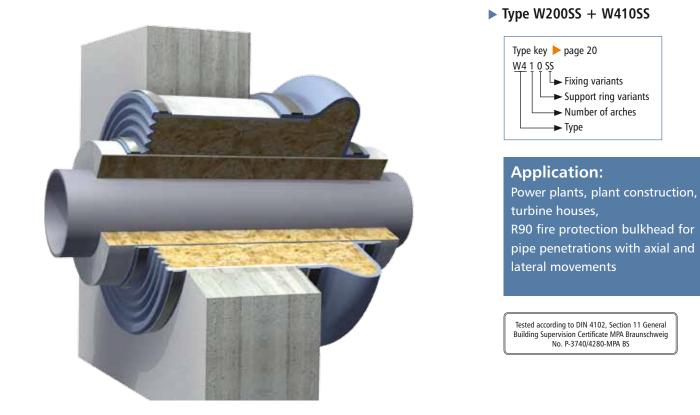


W200x + W410x

up to NB 750 wall pipes and NB 600 medium pipes



R90 fire protection bulkhead

for pipe penetrations up to wall pipe NB 750 and medium pipe NB 600 for large movements

Design:	Fire protection bulkhead possessing General Building Supervision Certificate consisting of elastic seals with clamped or flanged fixing on both sides of the wall or ceiling and a ring gap insulating layer		
Wall side:	A	В	
Туре:	Membrane type W200x Wall/ceiling sealing membrane with or without pre- shaped folds	Expansion joint type W410x Wall/ceiling sealing expansion joint with pre-formed arch	
Fixing:	Onto the wall or medium pipe on both sides using sleeves for clamped fixing, type W200SS; Optional dowelled to the wall with clamping flange if there is no wall pipe (min. 30 x 6), type W200FS	Both sides to the wall and medium pipe using sleeves for clamped fixing, type W410SS For ceiling ducts: Expansion joint must be protected against slippage using a welding bead or round bar (approx. Ø 3 mm) at the end of the wall pipe overhang Optional dowelled to the wall pipe with a clamping flange (min. 40 x 6) dowelled to the wall, type W410FS	
Installation length:	Standard 60 mm, other installation lengths on request	Standard 210 mm, other installation lengths on request	
Options:	Membrane with installation seam for installation after the pipeline is laid Consideration of potential eccentricity between medium and wall pipe	Expansion joint with installation seam for installation after the pipeline is laid Consideration of potential eccentricity between medium and wall pipe	
Wall pipe:	e: Certification up to NB 750, intermediate sizes possible, use normal nominal bores if possible Minimum required distance between individual wall pipes: 100 mm Wall pipe thickness (> page 350–351)		



Wall pipe insulation:	For wall pipes thicker than 10 mm and a wall pipe overhang greater than 30 mm for membranes and 60 mm for expansion joints, the space not covered by the seal should be insulated using a 20 mm mineral wool insulation layer (materials class A1, melting point > 1000 °C). The surface of this insulating material should be shielded using a galvanised or stainless steel plate with a thickness of 0.5 to 2.0 mm		
Medium pipe:	Certified up to NB 600, intermediate sizes possible		
Sectional medium pipe insulation:	Mineral wool insulation (materials class A1, melting point > 1000 °C). The surface of this insulating material should be shielded using a galvanised or stainless steel belt with a thickness of 0.5 to 2.0 mm. Length and thickness (\triangleright page 346)		
Ring gap:	= Distance between wall pipe and medium pipe or sectional medium pipe insulation Depending on Building Supervisory Certification, 10 mm to 100 mm required Ring gap stuffing made from mineral wool (materials class A1, melting point > 1000 °C) Stuffing density \geq 120 kg/m ³ (usually supplied by others) For ceiling ducts: Insulation must be secured against slippage using several brackets around the circumference		
Pipe suspension:	Distance of pipe suspension to fire protection bulkhead max. 0.5 m Distance between individual pipe suspensions max. 1.2 m If a suspension penetrates the sectional medium pipe insulation, it must be furnished with insulation at least 30 mm thick and 300 mm high		
Wall/ceiling thickness: min. 200 mm concrete, reinforced concrete or gas concrete			
Pressure:	Up to ± 20 mbar		

Movement: For large axial and lateral movements (\triangleright page 350–351)

Elastic sealing

	Membrane W200SS and W200FS	Expansion joint W400SS and W410FS	
Rubber grade:	up to 200 °C: Silicon (Q) for air, water, seawater atmospheres Special silicone blend for nuclear applications		
Carrier:	without	Silicate fabric	

Fastening clamps

	Membrane W200SS and W200FS		Expansion joint W410SS and W410FS		
Design:	Screw thread belt or small clamps	t or small clamps		Endless clamp belt or hinge bolt clamp	
Width:	Screw thread belt:½"Small clamp:depending on Ø: 9–1.	2 mm	Endless clamp belt: Hinge bolt clamp:	³ /4" depending on Ø: 18–3	0 mm
Materials:	Screw thread belt with threaded screw lug: Small clamp, belt and housing: (Screw steel galvanised)	1.4310 1.4016	Endless clamp belt wit Hinge bolt clamp, belt (Screw steel galvanised	and housing:	1.7300 1.4016

Flange

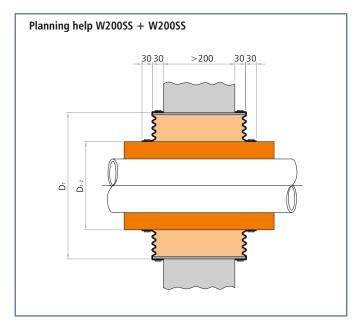
Design:	Multi-part clamping flange with clearance holes		
Flange norms:	According to manufacturer specification		
Materials:	Carbon steel: Stainless steel:	1.0038 (S235JRG2) 1.0570 (S355J2G3) 1.4301 (X5CrNi18-10) 1.4571 (X6CrNiMoTi17-12-2)	
	Other materials on request		
Coating:	Primed, hot-dip galvanised, special paint		

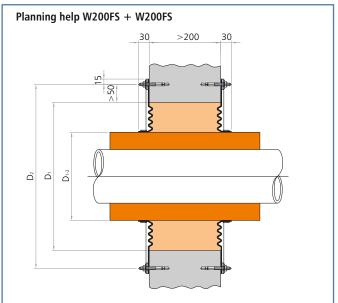
Coating:

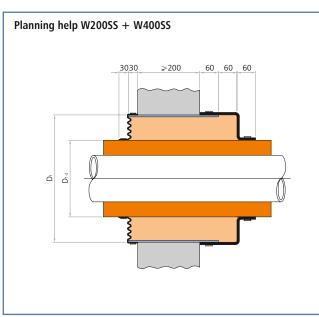
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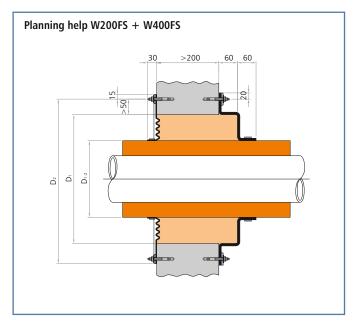
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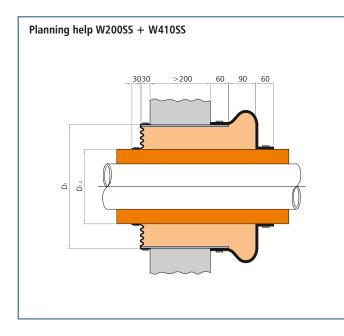


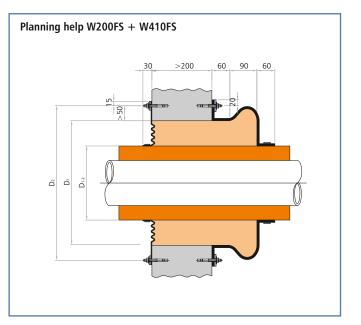














Membrane, type W200SS to seal fire protection bulkhea



Expansion joint, type W410SS to seal fire protection bulkheac