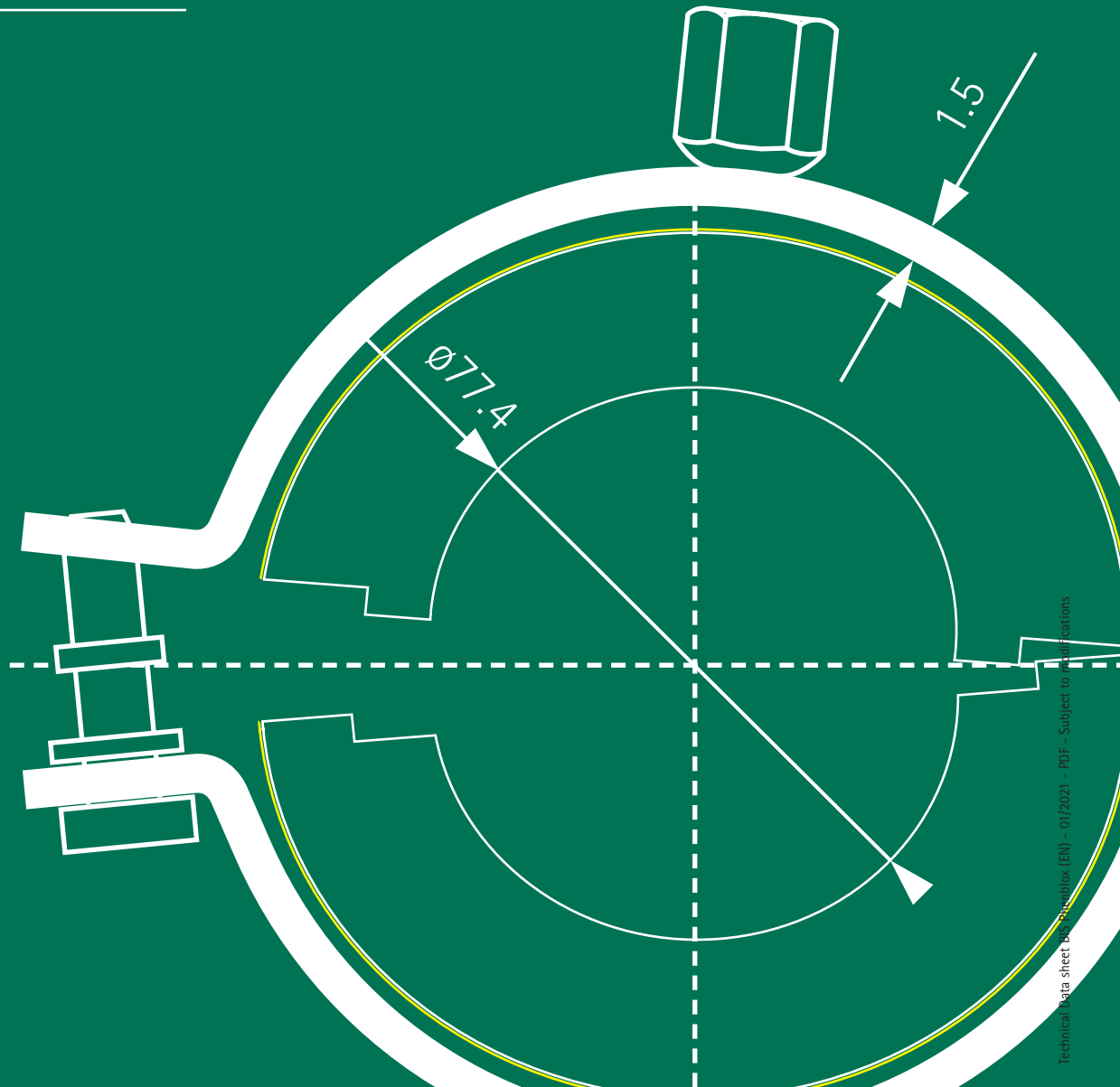


Design Criteria and Load Tables



Technical Data sheet BIS Phenblox (EN) - 01/2021 - PDF - Subject to modifications

Technical Data BIS Phenblox[®] Insulated Pipe Supports

Technical features of BIS Phenblox®

Walraven BIS Phenblox® pipe supports serve as a barrier between pipe and clip, **limiting thermal transfer** where thermal bridging is of a concern. This is compliant with **BS 5970 and CE marking** guidelines.

They have also been manufactured from a premium **CFC/HCFC-free** insulation material.

Phenblox® ranges cover a variety of densities, thicknesses and sizes dependant on pipe diameter, individual site specifications and benefit from the **inclusion of metal spreader plates**, where required, to distribute loads throughout the block.

BIS Phenblox® load bearing calculations

The BIS Phenblox® load bearing calculations have been determined based upon the chosen block density's minimum compressive strength and the deformation value of the pipe clamp.

This has been calculated with the maximum static weight of horizontal water filled mild steel and copper pipework in mind at the maximum allowed pipework spans.

The BIS Phenblox® are not designed to satisfy the stresses dictated by anchoring forces. Calculations are made by our technical experts and are based on information taken from the 2S range and HD clamps where sizes exceed the 2S range.

In addition to providing accurate placement of the two sections, **Walraven's unique stepped profile** sustains superior **vapour sealing** qualities, improving thermal efficiency on site. This supports temperature ranging from -50°C to +110°C.

They are fabricated with a cross-linked structure and a respective **fire rating of Class of BL-S1,d0**, given to products that are simultaneously difficult to ignite and produce minimal smoke when subjected to fire. **This is in accordance with EN 14314 and EN 13501-1** and boasts the highest (best) class in relation to reducing the frequency of flaming droplets/particles.

Full datasheets and supported loads can be found within the technical download centre or by contacting the Walraven Technical Department.

Email: technical.uk@walraven.com

Call: 01295 753400

Insulation thickness	Part Number	Fa,z (N)
15 mm		
BIS Phenblox®	8901015015	120.00
2S Clamp	33035046	
BIS Phenblox®	8901015021	170.00
2S Clamp	33035052	
BIS Phenblox®	8901015027	220.00
2S Clamp	33035061	
BIS Phenblox®	8901015034	280.00
2S Clamp	33035067	
BIS Phenblox®	8901015042	330.00
2S Clamp	33035074	
BIS Phenblox®	8911015048	380.00
2S Clamp	33035081	
BIS Phenblox®	8911015054	430.00
2S Clamp	33035087	
BIS Phenblox®	8911015060	480.00
2S Clamp	33035095	
BIS Phenblox®	8911015066	520.00
2S Clamp	33035103	
BIS Phenblox®	8911015076	600.00
2S Clamp	33035112	
BIS Phenblox®	8911015089	710.00
2S Clamp	33035127	
BIS Phenblox®	8911015108	860.00
2S Clamp	33035144	
BIS Phenblox®	8911015114	1,820.00
2S Clamp	33035144	

Insulation thickness	Part Number	Fa,z (N)
20 mm		
BIS Phenblox®	8901020015	120.00
2S Clamp	33035061	
BIS Phenblox®	8901020021	170.00
2S Clamp	33035061	
BIS Phenblox®	8901020027	220.00
2S Clamp	33035067	
BIS Phenblox®	8901020034	280.00
2S Clamp	33035074	
BIS Phenblox®	8901020042	330.00
2S Clamp	33035087	
BIS Phenblox®	8911020048	380.00
2S Clamp	33035095	
BIS Phenblox®	8911020054	430.00
2S Clamp	33035095	
BIS Phenblox®	8911020060	480.00
2S Clamp	33035103	
BIS Phenblox®	8911020066	520.00
2S Clamp	33035112	
BIS Phenblox®	8911020076	600.00
2S Clamp	33035118	
BIS Phenblox®	8911020089	710.00
2S Clamp	33035137	
BIS Phenblox®	8911020108	860.00
2S Clamp	33035153	
BIS Phenblox®	8911020114	1,820.00
2S Clamp	33035162	
BIS Phenblox®	8911020133	2,130.00
2S Clamp	33035183	
BIS Phenblox®	8911020140	2,230.00
2S Clamp	33035183	
BIS Phenblox®	8911020159	2,540.00
2S Clamp	33035205	
BIS Phenblox®	8911220168	2,690.00
2S Clamp	33035216	

Max. allowed load in N. The stated values are only valid for the clamp/Phenblox combinations shown. The maximum safe load of all other construction parts have to be verified. Loadings are based on calculations made by our technical experts.

Insulation thickness	Part Number	Fa,z (N)
25 mm		
BIS Phenblox®	8901025015	120.00
2S Clamp	33035067	
BIS Phenblox®	8901025021	170.00
2S Clamp	33035074	
BIS Phenblox®	8901025027	220.00
2S Clamp	33035081	
BIS Phenblox®	8901025034	280.00
2S Clamp	33035087	
BIS Phenblox®	8901025042	330.00
2S Clamp	33035095	
BIS Phenblox®	8911025048	380.00
2S Clamp	33035103	
BIS Phenblox®	8911025054	430.00
2S Clamp	33035112	
BIS Phenblox®	8911025060	480.00
2S Clamp	33035112	
BIS Phenblox®	8911025066	520.00
2S Clamp	33035118	
BIS Phenblox®	8911025076	600.00
2S Clamp	33035127	
BIS Phenblox®	8911025089	710.00
2S Clamp	33035144	
BIS Phenblox®	8911025108	860.00
2S Clamp	33035162	
BIS Phenblox®	8911025114	910.00
2S Clamp	33035172	
BIS Phenblox®	8911025133	2,130.00
2S Clamp	33035183	
BIS Phenblox®	8911025140	2,230.00
2S Clamp	33035194	
BIS Phenblox®	8911025159	2,540.00
2S Clamp	33035216	
BIS Phenblox®	8911225168	2,690.00
2S Clamp	33035225	

Insulation thickness	Part Number	Fa,z (N)
30 mm		
BIS Phenblox®	8901030015	120.00
2S Clamp	33035081	
BIS Phenblox®	8901030021	170.00
2S Clamp	33035081	
BIS Phenblox®	8901030027	220.00
2S Clamp	33035087	
BIS Phenblox®	8901030034	280.00
2S Clamp	33035095	
BIS Phenblox®	8901030042	330.00
2S Clamp	33035103	
BIS Phenblox®	8911030048	380.00
2S Clamp	33035112	
BIS Phenblox®	8911030054	430.00
2S Clamp	33035118	
BIS Phenblox®	8911030060	480.00
2S Clamp	33035127	
BIS Phenblox®	8911030066	520.00
2S Clamp	33035127	
BIS Phenblox®	8911030076	600.00
2S Clamp	33035137	
BIS Phenblox®	8911030089	710.00
2S Clamp	33035153	
BIS Phenblox®	8911030108	860.00
2S Clamp	33035172	
BIS Phenblox®	8911030114	1,820.00
2S Clamp	33035183	
BIS Phenblox®	8911030133	2,130.00
2S Clamp	33035194	
BIS Phenblox®	8911030140	2,230.00
2S Clamp	33035205	
BIS Phenblox®	8911030160	3,300.00
2S Clamp	33035225	
BIS Phenblox®	8911230168	3,740.00
HD Clamp	33068227	

Max. allowed load in N. The stated values are only valid for the clamp/Phenblox combinations shown. The maximum safe load of all other construction parts have to be verified. Loadings are based on calculations made by our technical experts.

Insulation thickness	Part Number	Fa,z (N)
40 mm		
BIS Phenblox®	8901040015	120.00
2S Clamp	33035095	
BIS Phenblox®	8901040021	170.00
2S Clamp	33035103	
BIS Phenblox®	8901040027	220.00
2S Clamp	33035112	
BIS Phenblox®	8901040034	280.00
2S Clamp	33035118	
BIS Phenblox®	8901040042	330.00
2S Clamp	33035127	
BIS Phenblox®	8911040048	380.00
2S Clamp	33035137	
BIS Phenblox®	8911040054	430.00
2S Clamp	33035137	
BIS Phenblox®	8911040060	480.00
2S Clamp	33035144	
BIS Phenblox®	8911040066	520.00
2S Clamp	33035153	
BIS Phenblox®	8911040076	600.00
2S Clamp	33035162	
BIS Phenblox®	8911040089	710.00
2S Clamp	33035172	
BIS Phenblox®	8911040108	860.00
2S Clamp	33035194	
BIS Phenblox®	8911040114	1,820.00
2S Clamp	33035194	
BIS Phenblox®	8911040133	2,130.00
2S Clamp	33035216	
BIS Phenblox®	8911040140	3,100.00
2S Clamp	33035225	
BIS Phenblox®	8911040159	2,830.00
HD Clamp	33068254	
BIS Phenblox®	8911240168	3,740.00
HD Clamp	33068254	

Insulation thickness	Part Number	Fa,z (N)
50 mm		
BIS Phenblox®	8901050015	120.00
2S Clamp	33035118	
BIS Phenblox®	8901050021	170.00
2S Clamp	33035127	
BIS Phenblox®	8901050027	220.00
2S Clamp	33035127	
BIS Phenblox®	8901050034	280.00
2S Clamp	33035137	
BIS Phenblox®	8901050042	330.00
2S Clamp	33035144	
BIS Phenblox®	8911050048	380.00
2S Clamp	33035153	
BIS Phenblox®	8911050054	430.00
2S Clamp	33035162	
BIS Phenblox®	8911050060	480.00
2S Clamp	33035162	
BIS Phenblox®	8911050066	520.00
2S Clamp	33035172	
BIS Phenblox®	8911050076	600.00
2S Clamp	33035183	
BIS Phenblox®	8911050089	710.00
2S Clamp	33035194	
BIS Phenblox®	8911050108	860.00
2S Clamp	33035216	
BIS Phenblox®	8911050114	1,820.00
2S Clamp	33035216	
BIS Phenblox®	8911050140	2,480.00
HD Clamp	33068241	
BIS Phenblox®	8911050159	2,830.00
HD Clamp	33068254	
BIS Phenblox®	8911250168	3,740.00
HD Clamp	33068279	

Max. allowed load in N. The stated values are only valid for the clamp/Phenblox combinations shown. The maximum safe load of all other construction parts have to be verified. Loadings are based on calculations made by our technical experts.

Need advice?

Contact our Technical Team for advice regarding the use of insulated pipe supports. Call 01295 753 400 or send an e-mail to technical.uk@walraven.com

