

Phenolic Pipe Insulation Block

Our Phenolic Insulation Pipe Supports serve as a barrier between pipe and clip, limiting thermal transfer where thermal bridging is of a concern. They are compliant with BS 5970 and CE marking guidelines.



Features & Benefits

- Load bearing insulation ring for steel, copper & plastic pipe
- Metal spreader plate recommended above 50 NB
- Foil covered
- Manufactured from High Density Phenolic Foam
- Negligible water absorption
- Does not contain CFC's and HCFC's
- K value 0.030 to 0.037 W/(m•K) at 10 °C
- Thermal conductivity determined by testing cylindrical specimen according to BS EN ISO 8497
- Reaction to fire: BL-s1 d0
- Density: <111mm OD pipe, 60kgs/m³
- Density: 111mm to 169mm OD pipe, 80kgs/m³
- Temperature resistance from -50 °C to +110 °C

Block/Clamp Size Guide

On the pages overleaf, you will find tables detailing the sizes, thicknesses and load data for the blocks that we offer. As well as this, you will find details of the corresponding clamps that can be used with each block.

The following method can also be used to calculate the required clamp size:

1. Select the correct size (diameter and thickness) of the block you require.
2. Calculate the size of pipe clamp by taking the Pipe Outside Diameter (OD) plus 2 x Block Thickness.
3. Order the type of Pipe Clamp you require in the size you have calculated, e.g. Heavy Duty, Split Band, 2-Piece Clip etc.

Example: 50mm NB x 30mm Thick Woodblock would require a 120mm Clamp.

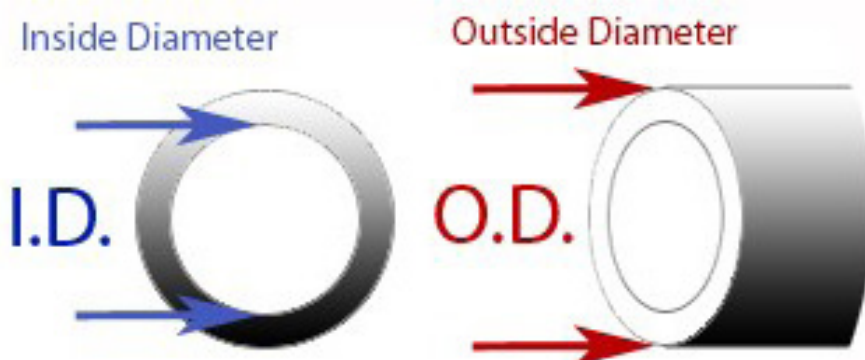
$$50\text{mm NB} = 60\text{mm OD. } 60 + (2 \times 30) = 120$$

Pipe Size Guide

All pipes are measured by the Inside Diameter and the Outside Diameter. The difference between these sizes is the thickness of the pipe which varies by pipe size, type and material.

- NB (Nominal Bore) is usually used for Steel Pipe and refers to the inside diameter of the pipe.
- Cu (Copper) Pipe Sizes are usually measured in metric sizes. This refers to the outside diameter of the pipe.

We show the Outside Diameter size against all insulation blocks to enable easier ordering of the relevant pipe clamp.



PRODUCT DATA SHEET
Specifications

NB		OD (mm)	Cu (mm)	Product Type	Insulation Thickness					
Inch	(mm)				15mm	20mm	25mm	30mm	40mm	50mm
1/4	-	15	15	PHENOLIC BLOCK	23500	23501	23502	23503	23504	23505
				CLAMP (M8/M10)	04958	04960	04961	04963	04965	04968
				HD CLAMP	-	-	-	04050	04053	04054
				SPLIT BAND CLIP	-	19821	-	19823	19829	-
1/2	15	21	22	PHENOLIC BLOCK	23506	23507	23508	23509	23510	23511
				CLAMP (M8/M10)	04959	04960	04962	04963	04966	04969
				HD CLAMP	-	-	-	04051	04053	04055
				SPLIT BAND CLIP	19820	19822	19824	19826	19830	19833
3/4	20	27	28	PHENOLIC BLOCK	23512	23513	23514	23515	23516	23517
				CLAMP (M8/M10)	04960	04961	04963	04964	04967	04969
				HD CLAMP	-	-	04050	04052	04053	04056
				SPLIT BAND CLIP	19822	19823	19825	19828	19831	19834
1	25	34	35	PHENOLIC BLOCK	23518	23519	23520	23521	23522	23523
				CLAMP (M8/M10)	04961	04962	04964	04965	04968	04970
				HD CLAMP	-	04050	04051	04052	04054	04057
				SPLIT BAND CLIP	-	19825	-	19829	-	19836
1 1/4	32	42	42	PHENOLIC BLOCK	23524	23525	23526	23527	23528	23529
				CLAMP (M8/M10)	04962	04964	04965	04966	04969	04971
				HD CLAMP	04050	04051	04052	04053	04055	04057
				SPLIT BAND CLIP	19824	19827	-	19830	19833	-
1 1/2	40	48	-	PHENOLIC BLOCK	23530	23531	23532	23533	23534	23535
				CLAMP (M8/M10)	04963	04965	04966	04967	04970	04972
				HD CLAMP	04050	04052	04053	04054	04056	04058
				SPLIT BAND CLIP	19826	19828	-	19831	19835	19837
-	-	54	54	PHENOLIC BLOCK	23536	23537	23538	23539	23540	23541
				CLAMP (M8/M10)	04964	04965	04967	04968	04970	04973
				HD CLAMP	04051	04052	04053	04054	04057	04058
				SPLIT BAND CLIP	-	19829	19830	19832	19836	19839
2	50	60	-	PHENOLIC BLOCK	23542	23543	23544	23545	23546	23547
				CLAMP (M8/M10)	04965	04966	04967	04969	04971	04973
				HD CLAMP	04052	04053	04054	04055	04057	04059
				SPLIT BAND CLIP	19828	19830	19831	19833	19836	19839
-	-	66	66	PHENOLIC BLOCK	23548	23549	23550	23551	23552	23553
				CLAMP (M8/M10)	04966	04967	04968	04969	04972	04974
				HD CLAMP	04053	04053	04054	04056	04058	04059
				SPLIT BAND CLIP	19829	19829	-	19834	19837	19840

PRODUCT DATA SHEET
Specifications (continued)

NB		OD (mm)	Cu (mm)	Product Type	Insulation Thickness					
Inch	(mm)				15mm	20mm	25mm	30mm	40mm	50mm
2 1/2	65	76	76	PHENOLIC BLOCK	23554	23555	23556	23557	23558	23559
				CLAMP (M8/M10)	04967	04968	04969	04970	04973	04976
				HD CLAMP	04053	04054	04056	04057	04058	04060
				SPLIT BAND CLIP	19831	19832	19834	19836	19839	-
3	80	89	-	PHENOLIC BLOCK	23560	23561	23562	23563	23564	23565
				CLAMP (M8/M10)	04969	04970	04971	04972	04974	04977
				HD CLAMP	04055	04056	04057	04058	04059	04061
				SPLIT BAND CLIP	19833	19835	19836	19838	19839	19843
-	-	108	108	PHENOLIC BLOCK	23566	23567	23568	23569	23570	23571
				CLAMP (M8/M10)	04971	04972	04973	04974	04977	04979
				HD CLAMP	04057	04058	04059	04059	04061	04062
				SPLIT BAND CLIP	19836	19837	19839	19840	19843	19846
4	100	114	-	PHENOLIC BLOCK	23572	23573	23574	23575	23576	23577
				CLAMP (M8/M10)	04971	04973	04974	04976	04977	04979
				HD CLAMP	04057	04058	04059	04060	04061	04062
				SPLIT BAND CLIP	19837	-	19840	-	19844	-
-	-	133	133	PHENOLIC BLOCK	23578	23579	23580	23581	23582	23583
				CLAMP (M8/M10)	04974	04976	04976	04977	04979	-
				HD CLAMP	04059	04060	04060	04061	04062	-
				SPLIT BAND CLIP	-	19841	-	-	-	-
5	125	140	-	PHENOLIC BLOCK	23584	23585	23586	23587	23588	23589
				CLAMP (M8/M10)	04974	04976	04977	04978	-	-
				HD CLAMP	04059	04060	04061	04061	04063	-
				SPLIT BAND CLIP	19841	19842	19843	19845	19847	19850
-	-	159	159	PHENOLIC BLOCK	23590	23591	23592	23593	23594	23595
				CLAMP (M8/M10)	04977	04978	04979	-	-	-
				HD CLAMP	04061	04061	04062	04062	-	-
				SPLIT BAND CLIP	19843	19845	19846	19847	19850	19852
6	150	168	-	PHENOLIC BLOCK	23596	23597	23598	23599	23600	23601
				CLAMP (M8/M10)	04978	04979	-	-	-	-
				HD CLAMP	04061	04062	04062	04063	-	-
				SPLIT BAND CLIP	19845	19846	19847	19849	19851	19854

PRODUCT DATA SHEET
Max Allowed Load Tables (15mm & 20mm Thickness)

Insulation Thickness = 15mm		
	Order Code	Max Allowed Load (N)
Phenolic Block	23500	120
Unlined Clamp	04958	
Phenolic Block	23506	170
Unlined Clamp	04959	
Phenolic Block	23512	220
Unlined Clamp	04960	
Phenolic Block	23518	280
Unlined Clamp	04961	
Phenolic Block	23524	330
Unlined Clamp	04962	
Phenolic Block	23530	380
Unlined Clamp	04963	
Phenolic Block	23536	430
Unlined Clamp	04964	
Phenolic Block	23542	480
Unlined Clamp	04965	
Phenolic Block	23548	520
Unlined Clamp	04966	
Phenolic Block	23554	600
Unlined Clamp	04967	
Phenolic Block	23560	710
Unlined Clamp	04969	
Phenolic Block	23566	860
Unlined Clamp	04971	
Phenolic Block	23572	1,820
Unlined Clamp	04971	

Insulation Thickness = 20mm		
	Order Code	Max Allowed Load (N)
Phenolic Block	23501	120
Unlined Clamp	04960	
Phenolic Block	23507	170
Unlined Clamp	04960	
Phenolic Block	23513	220
Unlined Clamp	04961	
Phenolic Block	23519	280
Unlined Clamp	04962	
Phenolic Block	23525	330
Unlined Clamp	04964	
Phenolic Block	23531	380
Unlined Clamp	04965	
Phenolic Block	23537	430
Unlined Clamp	04965	
Phenolic Block	23543	480
Unlined Clamp	04966	
Phenolic Block	23549	520
Unlined Clamp	04967	
Phenolic Block	23555	600
Unlined Clamp	04968	
Phenolic Block	23561	710
Unlined Clamp	04970	
Phenolic Block	23567	860
Unlined Clamp	04972	
Phenolic Block	23573	1,820
Unlined Clamp	04973	
Phenolic Block	23579	2,130
Unlined Clamp	04976	
Phenolic Block	23585	2,230
Unlined Clamp	04976	
Phenolic Block	23591	2,540
Unlined Clamp	04978	
Phenolic Block	23597	2,690
Unlined Clamp	04979	

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 technical experts.

PRODUCT DATA SHEET
Max Allowed Load Tables (25mm & 30mm Thickness)

Insulation Thickness = 25mm		
	Order Code	Max Allowed Load (N)
Phenolic Block	23502	120
Unlined Clamp	04961	
Phenolic Block	23508	170
Unlined Clamp	04962	
Phenolic Block	23514	220
Unlined Clamp	04963	
Phenolic Block	23520	280
Unlined Clamp	04964	
Phenolic Block	23526	330
Unlined Clamp	04965	
Phenolic Block	23532	380
Unlined Clamp	04966	
Phenolic Block	23538	430
Unlined Clamp	04967	
Phenolic Block	23544	480
Unlined Clamp	04967	
Phenolic Block	23550	520
Unlined Clamp	04968	
Phenolic Block	23556	600
Unlined Clamp	04969	
Phenolic Block	23562	710
Unlined Clamp	04971	
Phenolic Block	23568	860
Unlined Clamp	04973	
Phenolic Block	23574	910
Unlined Clamp	04974	
Phenolic Block	23580	2,130
Unlined Clamp	04976	
Phenolic Block	23586	2,230
Unlined Clamp	04977	
Phenolic Block	23592	2,540
Unlined Clamp	04979	
Phenolic Block	23598	2,690
Unlined Clamp	CALL	

Insulation Thickness = 30mm		
	Order Code	Max Allowed Load (N)
Phenolic Block	23503	120
Unlined Clamp	04963	
Phenolic Block	23509	170
Unlined Clamp	04963	
Phenolic Block	23515	220
Unlined Clamp	04964	
Phenolic Block	23521	280
Unlined Clamp	04965	
Phenolic Block	23527	330
Unlined Clamp	04966	
Phenolic Block	23533	380
Unlined Clamp	04967	
Phenolic Block	23539	430
Unlined Clamp	04968	
Phenolic Block	23545	480
Unlined Clamp	04969	
Phenolic Block	23551	520
Unlined Clamp	04969	
Phenolic Block	23557	600
Unlined Clamp	04970	
Phenolic Block	23563	710
Unlined Clamp	04972	
Phenolic Block	23569	860
Unlined Clamp	04974	
Phenolic Block	23575	1,820
Unlined Clamp	04976	
Phenolic Block	23581	2,130
Unlined Clamp	04977	
Phenolic Block	23587	2,230
Unlined Clamp	04978	
Phenolic Block	23593	3,300
Unlined Clamp	CALL	
Phenolic Block	23599	3,740
Unlined Clamp	CALL	

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

PRODUCT DATA SHEET
Max Allowed Load Tables (40mm & 50mm Thickness)

Insulation Thickness = 40mm		
	Order Code	Max Allowed Load (N)
Phenolic Block	23504	120
Unlined Clamp	04965	
Phenolic Block	23510	170
Unlined Clamp	04966	
Phenolic Block	23516	220
Unlined Clamp	04967	
Phenolic Block	23522	280
Unlined Clamp	04968	
Phenolic Block	23528	330
Unlined Clamp	04969	
Phenolic Block	23534	380
Unlined Clamp	04970	
Phenolic Block	23540	430
Unlined Clamp	04970	
Phenolic Block	23546	480
Unlined Clamp	04971	
Phenolic Block	23552	520
Unlined Clamp	04972	
Phenolic Block	23558	600
Unlined Clamp	04973	
Phenolic Block	23564	710
Unlined Clamp	04974	
Phenolic Block	23570	860
Unlined Clamp	04977	
Phenolic Block	23576	1,820
Unlined Clamp	04977	
Phenolic Block	23582	2,130
Unlined Clamp	04979	
Phenolic Block	23588	3,100
Unlined Clamp	CALL	
Phenolic Block	23594	2,830
Unlined Clamp	CALL	
Phenolic Block	23600	3,740
Unlined Clamp	CALL	

Insulation Thickness = 50mm		
	Order Code	Max Allowed Load (N)
Phenolic Block	23505	120
Unlined Clamp	04968	
Phenolic Block	23511	170
Unlined Clamp	04969	
Phenolic Block	23517	220
Unlined Clamp	04969	
Phenolic Block	23523	280
Unlined Clamp	04970	
Phenolic Block	23529	330
Unlined Clamp	04971	
Phenolic Block	23535	380
Unlined Clamp	04972	
Phenolic Block	23541	430
Unlined Clamp	04973	
Phenolic Block	23547	480
Unlined Clamp	04973	
Phenolic Block	23553	520
Unlined Clamp	04974	
Phenolic Block	23559	600
Unlined Clamp	04976	
Phenolic Block	23565	710
Unlined Clamp	04977	
Phenolic Block	23571	860
Unlined Clamp	04979	
Phenolic Block	23577	1,820
Unlined Clamp	04979	
Phenolic Block	23589	2,480
Unlined Clamp	CALL	
Phenolic Block	23595	2,830
Unlined Clamp	CALL	
Phenolic Block	23601	3,740
Unlined Clamp	CALL	

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 technical experts.

For further product information, please contact one of the Kernow team on 01726 624600 or sales@kernow-how.com