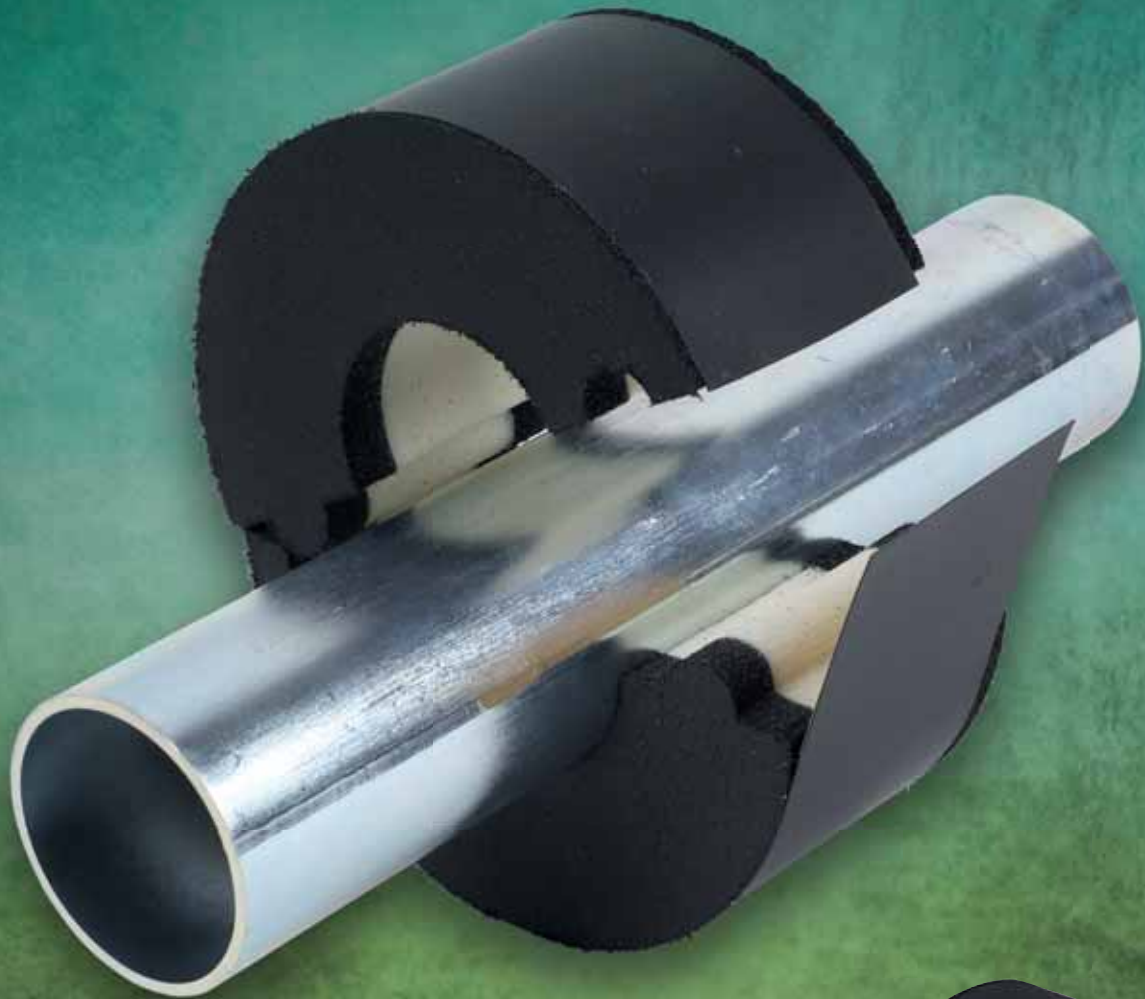


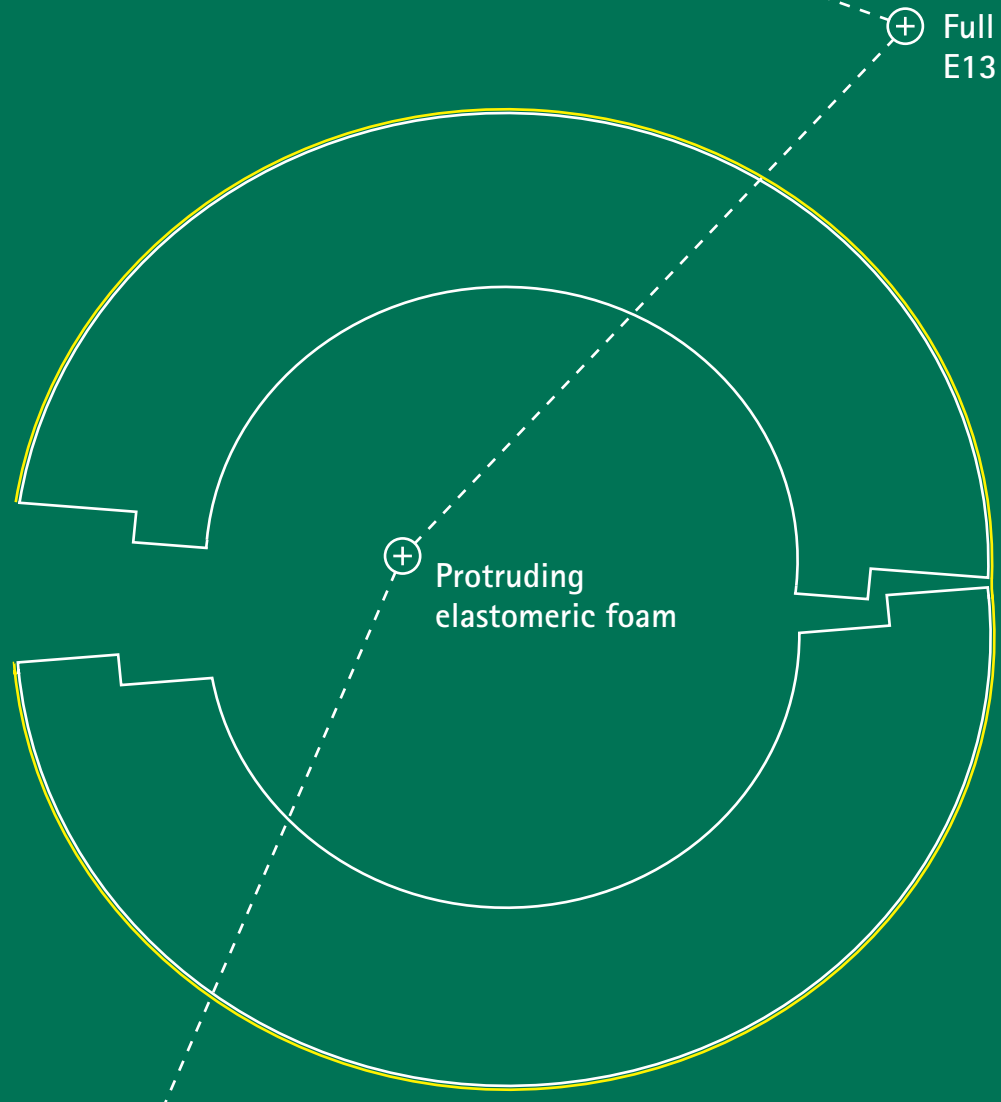
Hot or cold,  
we've got you covered!



## BISOFIX<sup>®</sup> E

Insulating pipe supports to prevent condensation of pipe and fixing material

BISOFIX® E



⊕ Full range in E13 - E32

⊕ Protruding elastomeric foam

⊕ PVC vapour proof layer

⊕ PIR inserts of 80 and 120 kg/m<sup>3</sup>

### Inspired by smart solutions from the start

Walraven is a globally active company in the installation industry, founded in 1942. We have always been dedicated to make the work of our customers easier and more effective. With simple and smart solutions, comprehensive services and excellent support. Walraven. The value of smart

# BISOFIX® E13

For insulated pipes 8.0 – 168.3mm



## Product information

Walraven BISOFIX® E insulating pipe supports with PIR core have a PVC vapour barrier. Insulating pipe supports remove the thermal bridge at each fixing point, solve energy losses, prevent condensation thus preventing corrosion and thereby extending the lifespan of the fixing material. A self-adhesive tape ensures an easy, yet effective sealed vapour proof barrier. The load bearing capacity and required insulation values are reached by selecting the right PIR rigid insulation foam shells and covering those with elastomeric foam layers for easy adhesion to the insulation foams.

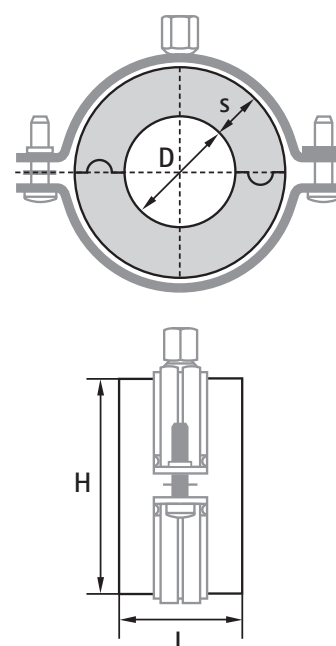
## Product details

Part No.	D (mm)	L	H (mm)	s (mm)	Fa,z (N)	Pack 1
I13000008	8.0	50mm	34.6	13.3	100	25
I13000010	10.2	50mm	36.8	13.3	100	25
I13000012	12.0	50mm	38.6	13.3	100	25
I13000015	15.0	50mm	41.6	13.3	100	25
I13000018	17.2 - 18.0	50mm	44.6	13.3	100	25
I13000022	21.3 - 22.0	50mm	48.6	13.3	100	25
I13000028	26.9 - 28.0	50mm	55.0	13.3	100	25
I13000035	33.7 - 35.0	50mm	61.6	13.3	100	25
I13000042	42.4	50mm	69.0	13.3	150	25
I13000048	48.3	50mm	74.9	13.3	225	25
I13000054	54.0	50mm	80.6	13.3	225	25
I13000057	57.0	50mm	83.6	13.3	350	25
I13000060	60.3	50mm	88.1	13.9	350	25
I13000064	64.0	50mm	100.0	18.0	350	25
I13000070	70.0	50mm	102.6	16.3	425	25
I13000076	76.1	50mm	108.7	16.3	575	25
I13000089	88.9	50mm	124.7	17.9	875	25
I13000102	101.6	50mm	134.2	16.3	1,000	25
I13000108	108.0	50mm	140.6	16.3	1,075	25
I13000114	114.3	50mm	152.1	18.9	1,250	25
I13000133	133.0	100mm	165.6	16.3	1,475	25
I13000140	139.7	100mm	176.1	18.2	1,700	5
I13000160	159.0 - 160.0	100mm	192.6	16.3	1,950	5
I13000168	168.3	100mm	200.9	16.3	2,125	5

Although the E13 engineered wall thickness is more commonly used with smaller dimension pipes, the range is available up to 168.3mm. The thickness of the insulation is sufficient to prevent condensation.

## Features

- Vapour proof glueable with pipe insulation
- Does not contain CFCs, HCFCs, formaldehyde or cadmium
- PIR density <80mm = 80kg/m<sup>3</sup>
- PIR density >80mm = 120kg/m<sup>3</sup>
- PIR density 80kg/m<sup>3</sup> =>  $\lambda$  = 0.024-0.026 (W/m\*K)
- PIR density 120kg/m<sup>3</sup> =>  $\lambda$  = 0.030-0.032 (W/m\*K)
- Working temperature from -45°C up to +105°C
- Fire rating: class B2



# BISOFIX® E19

For insulated pipes 12.0 – 219.1mm



## Product information

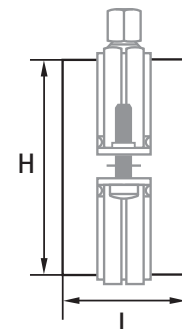
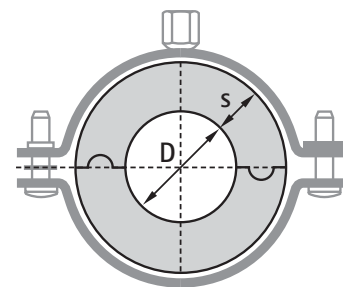
With the E19 engineered wall thickness being the most widely used elastomeric foam insulation, the Walraven range of E19 pipe supports is available up to 219.1mm. The specifications of the insulation are compliant with the common insulation standards on thickness, density and vapour transmission. ISO 18096, ISO 18098, ISO 12628 and ISO 12629 describe these typical insulation demands.

## Product details

Part No.	D (mm)	L	H (mm)	s (mm)	Fa,z (N)	Pack 1
I190000012	12.0	50mm	50.6	19.3	100	25
I190000015	15.0	50mm	54.0	19.5	100	25
I190000018	17.2 - 18.0	50mm	56.6	19.3	100	25
I190000022	21.3 - 22.0	50mm	60.6	19.3	100	25
I190000028	26.9 - 28.0	50mm	66.6	19.3	100	25
I190000035	33.7 - 35.0	50mm	74.8	19.9	100	25
I190000042	42.4	50mm	81.0	19.3	150	25
I190000048	48.3	50mm	88.1	19.9	225	25
I190000054	54.0	50mm	100.0	23.0	225	25
I190000057	57.0	50mm	103.0	23.0	225	25
I190000060	60.3	50mm	100.1	19.9	350	25
I190000064	64.0	50mm	114.6	25.3	350	25
I190000070	70.0	50mm	124.6	27.3	425	25
I190000076	76.1	50mm	126.7	25.3	575	25
I190000089	88.9	50mm	139.5	25.3	875	25
I190000102	101.6	50mm	152.2	25.3	1,000	25
I190000108	108.0	50mm	158.6	25.3	1,075	25
I190000114	114.3	50mm	164.9	25.3	1,250	25
I190000133	133.0	100mm	192.0	29.5	1,475	5
I190000140	139.7	100mm	192.1	26.2	1,700	5
I190000160	159.0 - 160.0	100mm	210.6	25.3	1,950	5
I190000168	168.3	100mm	218.9	25.3	2,125	5
I190000219	219.1	100mm	269.7	25.3	3,525	3

## Features

- Vapour proof glueable with pipe insulation
- Does not contain CFCs, HCFCs, formaldehyde or cadmium
- PIR density <80mm = 80kg/m<sup>3</sup>
- PIR density >80mm = 120kg/m<sup>3</sup>
- PIR density 80kg/m<sup>3</sup> => λ = 0.024-0.026 (W/m\*K)
- PIR density 120kg/m<sup>3</sup> => λ = 0.030-0.032 (W/m\*K)
- Working temperature from -45°C up to +105°C
- Fire rating: class B2



*Prevents corrosion  
Extends lifespan*

# BISOFIX® E25

For insulated pipes 12.0 – 219.1mm



## Product information

Insulating pipe supports with E25 engineered wall enable installation where higher thermal insulation is required. In these situations, the bigger spread of the medium temperature running through the pipes and the ambient temperature are key drivers for selecting the BISOFIX® E25 insulation. Thicker elastomeric foam layers are required, which is the quickest and sometimes only suitable solution. Pipe expansion may only be solved through the flexibility of the insulation material: the Flexible Elastomeric Foam (FEF). A wide range available to suit pipes up to 219.1mm.

## Product details

Part No.	D (mm)	L	H (mm)	s (mm)	Fa,z (N)	Pack 1
I250000012	12.0	50mm	62.6	25.3	100	25
I250000015	15.0	50mm	66.0	25.5	100	25
I250000018	17.2 - 18.0	50mm	68.6	25.3	100	25
I250000022	21.3 - 22.0	50mm	75.4	26.7	100	25
I250000028	26.9 - 28.0	50mm	78.6	25.3	100	25
I250000035	33.7 - 35.0	50mm	88.0	26.5	100	25
I250000042	42.4	50mm	100.0	28.8	150	25
I250000048	48.3	50mm	100.1	25.9	225	25
I250000054	54.0	50mm	104.6	25.3	225	25
I250000057	57.0	50mm	107.6	25.3	225	25
I250000060	60.3	50mm	110.9	25.3	350	25
I250000064	64.0	50mm	128.6	32.3	350	25
I250000070	70.0	50mm	134.6	32.3	425	25
I250000076	76.1	50mm	140.7	32.3	575	25
I250000089	88.9	50mm	153.5	32.3	875	25
I250000102	101.6	50mm	166.2	32.3	1,000	25
I250000108	108.0	50mm	176.0	34.0	1,075	5
I250000114	114.3	50mm	178.9	32.3	1,250	5
I250000133	133.0	100mm	197.6	32.3	1,475	5
I250000140	139.7	100mm	205.1	32.7	1,700	5
I250000160	159.0 - 160.0	100mm	224.6	32.3	1,950	5
I250000168	168.3	100mm	232.9	32.3	2,125	3
I250000219	219.1	100mm	283.7	32.3	3,525	3



## Features

- Vapour proof glueable with pipe insulation
- Does not contain CFCs, HCFCs, formaldehyde or cadmium
- PIR density <80mm = 80kg/m<sup>3</sup>
- PIR density >80mm = 120kg/m<sup>3</sup>
- PIR density 80kg/m<sup>3</sup> => λ = 0.024-0.026 (W/m\*K)
- PIR density 120kg/m<sup>3</sup> => λ = 0.030-0.032 (W/m\*K)
- Working temperature from -45°C up to +105°C
- Fire rating: class B2



# BISOFIX® E32

For insulated pipes 12.0 – 273.1mm



## Product information

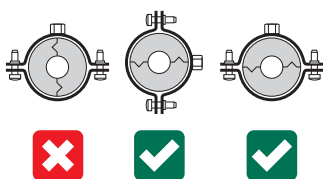
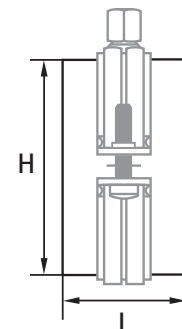
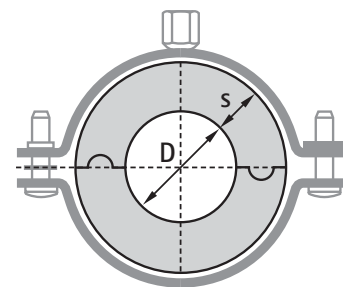
With the thickest engineered wall thickness, Walraven provides a full-scale insulating pipe supports solution. The E32 insulation material is suitable for applications with very strict noise requirements such as music and television studios, hotels and hospitals. No more doubts about structure borne noise if the installation is fixed with E32 insulating pipe supports.

## Product details

Part No.	D (mm)	L	H (mm)	s (mm)	Fa,z (N)	Pack 1
I320000012	12.0	50mm	76.6	32.3	100	25
I320000015	15.0	50mm	80.0	32.5	100	25
I320000018	17.2 - 18.0	50mm	82.6	32.3	100	25
I320000022	21.3 - 22.0	50mm	88.0	33.0	100	25
I320000028	26.9 - 28.0	50mm	100.0	36.0	100	25
I320000035	33.7 - 35.0	50mm	100.0	32.5	100	25
I320000042	42.4	50mm	108.0	32.8	150	25
I320000048	48.3	50mm	112.9	32.3	225	25
I320000054	54.0	50mm	124.6	35.3	225	25
I320000060	60.3	50mm	124.9	32.3	350	25
I320000064	64.0	50mm	152.0	44.0	350	15
I320000070	70.0	50mm	152.0	41.0	425	15
I320000076	76.1	50mm	156.7	40.3	575	15
I320000089	88.9	50mm	176.1	43.6	875	5
I320000102	101.6	50mm	192.0	45.2	1,000	5
I320000108	108.0	50mm	192.0	42.0	1,075	5
I320000114	114.3	50mm	194.9	40.3	1,250	5
I320000133	133.0	100mm	218.4	42.7	1,475	5
I320000140	139.7	100mm	220.3	40.3	1,700	5
I320000160	159.0 - 160.0	100mm	241.0	40.5	1,950	3
I320000168	168.3	100mm	248.9	40.3	2,125	3
I320000219	219.1	100mm	315.1	48.0	3,525	3
I320000273	273.1	100mm	353.6	40.3	4,925	3

## Features

- Vapour proof glueable with pipe insulation
- Does not contain CFCs, HCFCs, formaldehyde or cadmium
- PIR density <80mm = 80kg/m<sup>3</sup>
- PIR density >80mm = 120kg/m<sup>3</sup>
- PIR density 80kg/m<sup>3</sup> =>  $\lambda$  = 0.024-0.026 (W/m\*K)
- PIR density 120kg/m<sup>3</sup> =>  $\lambda$  = 0.030-0.032 (W/m\*K)
- Working temperature from -45°C up to +105°C
- Fire rating: class B2



The right installation method delivers the best performance

Always make sure that you position the insulating pipe supports in the correct position.





## BISOFIX® E in combination with Bifix® G2

Walraven Bifix® G2 clamps are available both lined and unlined so that the total installation can be fitted with the same type of clamp. Even more convenient: there is no reason to doubt whether this is the right choice of fixing, as the clamps are suitable for both indoor and outdoor applications, for corrosive environments C1 - C4 (ISO 12944-2) due to the BIS UltraProtect® 1000 surface protection.

The quick closing mechanism makes the job easier and faster, suspending the pipe system in a closed yet untightened clamp in order to position it before completely tightening the screws.

[walraven.com/int/insulating-pipe-supports](http://walraven.com/int/insulating-pipe-supports)

# BISOFIX® E Selection Chart

This chart is designed to help you select the right clamp and insulation block combination.

Pipe diameter (mm)	Product Type	BISOFIX® E13	BISOFIX® E19	BISOFIX® E25	BISOFIX® E32
8.0	BISOFIX® E	I13000008	-	-	-
	2S Clamp	33035037	-	-	-
	Bifix® G2 Clamp	3008039	-	-	-
	BIS HD 500 Clamp	33038036	-	-	-
10.0	BISOFIX® E	I13000010	-	-	-
	2S Clamp	33035037	-	-	-
	Bifix® G2 Clamp	3008039	-	-	-
	BIS HD 500 Clamp	33038036	-	-	-
12.0	BISOFIX® E	I13000012	I19000012	I25000012	I32000012
	2S Clamp	33035046	33035052	33035067	33035081
	Bifix® G2 Clamp	3008039	3008052	3008064	3008079
	BIS HD 500 Clamp	33038036	33038052	33038065	33048085
15.0	BISOFIX® E	I13000015	I19000015	I25000015	I32000015
	2S Clamp	33035046	33035061	33035067	33035081
	Bifix® G2 Clamp	3008045	3008058	3008070	3008083
	BIS HD 500 Clamp	33038042	33038058	33038071	33048085
17.2 - 18.0	BISOFIX® E	I13000018	I19000018	I25000018	I32000018
	2S Clamp	33035046	33035061	33035074	33035087
	Bifix® G2 Clamp	3008045	3008058	3008070	3008083
	BIS HD 500 Clamp	33038045	33038058	33038071	33048085
21.3 - 22.0	BISOFIX® E	I13000022	I19000022	I25000022	I32000022
	2S Clamp	33035052	33035061	33035081	33035095
	Bifix® G2 Clamp	3008052	3008064	3008079	3008091
	BIS HD 500 Clamp	33038052	33038065	33048078	33048092
26.9 - 28.0	BISOFIX® E	I13000028	I19000028	I25000028	I32000028
	2S Clamp	33035061	33035067	33035081	33035103
	Bifix® G2 Clamp	3008058	3008070	3008079	3008105
	BIS HD 500 Clamp	33038058	33038071	33048085	33048106
33.7 - 35.0	BISOFIX® E	I13000035	I19000035	I25000035	I32000035
	2S Clamp	33035067	33035081	33035095	33035103
	Bifix® G2 Clamp	3008064	3008079	3008091	3008105
	BIS HD 500 Clamp	33038065	33048078	33048092	33048106
42.4	BISOFIX® E	I13000042	I19000042	I25000042	I32000042
	2S Clamp	33035074	33035081	33035103	33035112
	Bifix® G2 Clamp	3008070	3008083	3008105	3008115
	BIS HD 500 Clamp	33038071	33048085	33048106	33048116
48.3	BISOFIX® E	I13000048	I19000048	I25000048	I32000048
	2S Clamp	33035081	33035095	33035103	33035118
	Bifix® G2 Clamp	3008079	3008091	3008105	3008115
	BIS HD 500 Clamp	33048078	33048092	33048106	33048116
54.0	BISOFIX® E	I13000054	I19000054	I25000054	I32000054
	2S Clamp	33035087	33035103	33035112	33035127
	Bifix® G2 Clamp	3008083	3008105	3008105	3008130
	BIS HD 500 Clamp	33048085	33048106	33048106	33048133
57.0	BISOFIX® E	I13000057	I19000057	I25000057	
	2S Clamp	33035087	33035103	33035112	
	Bifix® G2 Clamp	3008083	3008105	3008115	
	BIS HD 500 Clamp	33048085	33048106	33048116	
60.0	BISOFIX® E	I13000060	I19000060	I25000060	I32000060
	2S Clamp	33035095	33035103	33035112	33035127
	Bifix® G2 Clamp	3008091	3008105	3008115	3008130
	BIS HD 500 Clamp	33048092	33048106	33048116	33048133



## BISOFIX® E



## 2S Clamp



## Bifix® G2 Clamp



## BIS HD 500 Clamp



Pipe diameter (mm)	Product Type	BISOFIX® E13	BISOFIX® E19	BISOFIX® E25	BISOFIX® E32
64.0	BISOFIX® E	I13000064	I19000064	I25000064	I32000064
	2S Clamp	33035103	33035118	33035137	33035153
	Bifix® G2 Clamp	3008105	3008115	3008130	3008160
	BIS HD 500 Clamp	33048106	33048116	33048133	33048154
70.0	BISOFIX® E	I13000070	I19000070	I25000070	I32000070
	2S Clamp	33035103	33035127	33035137	33035153
	Bifix® G2 Clamp	3008105	3008130	3008140	3008160
	BIS HD 500 Clamp	33048106	33048133	33048140	33048154
76.0	BISOFIX® E	I13000076	I19000076	I25000076	I32000076
	2S Clamp	33035112	33035127	33035144	33035162
	Bifix® G2 Clamp	3008115	3008130	3008140	3008160
	BIS HD 500 Clamp	33048116	33048133	33048140	33048154
89.0	BISOFIX® E	I13000089	I19000089	I25000089	I32000089
	2S Clamp	33035127	33035144	33035153	33035183
	Bifix® G2 Clamp	3008130	3008140	3008160	3008180
	BIS HD 500 Clamp	33048133	33048140	33048154	33048183
102.0	BISOFIX® E	I130000102	I190000102	I250000102	I320000102
	2S Clamp	33035137	33035153	33035172	33035194
	Bifix® G2 Clamp	3008140	3008160	3008169	3008200
	BIS HD 500 Clamp	33048140	33048154	33048169	33048202
108.0	BISOFIX® E	I130000108	I190000108	I250000108	I320000108
	2S Clamp	33035144	33035162	33035183	33035194
	Bifix® G2 Clamp	3008140	3008160	3008180	3008200
	BIS HD 500 Clamp	33048140	33048169	33048183	33048202
114.0	BISOFIX® E	I130000114	I190000114	I250000114	I320000114
	2S Clamp	33035153	33035172	33035183	33035205
	Bifix® G2 Clamp	3008160	3008169	3008180	3008200
	BIS HD 500 Clamp	33048154	33048169	33048183	33048202
133.0	BISOFIX® E	I130000133	I190000133	I250000133	I320000133
	2S Clamp	33035172	33035194	33035205	33035225
	Bifix® G2 Clamp	3008169	3008200	3008200	3008225
	BIS HD 500 Clamp	33048169	33048202	33048202	33048227
140.0	BISOFIX® E	I130000140	I190000140	I250000140	I320000140
	2S Clamp	33035183	33035194	33035205	33035225
	Bifix® G2 Clamp	3008180	3008200	3008210	3008225
	BIS HD 500 Clamp	33048183	33048202	33048202	33048227
159.0 - 160.0	BISOFIX® E	I130000160	I190000160	I250000160	I320000160
	2S Clamp	33035194	33035216	33035225	-
	Bifix® G2 Clamp	3008200	3008210	3008225	-
	BIS HD 500 Clamp	33048202	33048219	33048227	33068241
168.3	BISOFIX® E	I130000168	I190000168	I250000168	I320000168
	2S Clamp	33035205	33035225	-	-
	Bifix® G2 Clamp	3008200	3008225	-	-
	BIS HD 500 Clamp	33048202	33048219	33068241	33068254
219.0	BISOFIX® E		I190000219	I250000219	I320000219
	2S Clamp		-	-	-
	Bifix® G2 Clamp		-	-	-
	BIS HD 500 Clamp		33068279	33068289	33068325
273.1	BISOFIX® E				I320000273
	2S Clamp				-
	Bifix® G2 Clamp				-
	BIS HD 500 Clamp				33068360



# Hot or cold, we've got you covered!

Every installation is different. Fortunately, Walraven understands the specific challenges that come with developing complex technical solutions and working at height.

In addition to a comprehensive range of robust, durable and easy-to-install product systems, our experts and engineers are always available to share their years of expertise and advise you on the safest, most durable and cost-effective solutions for your installation.

To find out how we can support you, visit [walraven.com/int/insulating-pipe-supports](https://walraven.com/int/insulating-pipe-supports)

The value of smart

# BISOFIX® E

## Features and benefits

### Complete range covering all thicknesses and a wide range of applications

- The standard BISOFIX® E range covers pipes from 8mm up to 273mm
- Available in thicknesses from E13 up to E32 to suit different performance specifications and requirements
- Special sizes available on request

### High density

- <80mm outer diameter of the pipe 80 kg/m<sup>3</sup>
- >80mm outer diameter of the pipe 120 kg/m<sup>3</sup>

### Moisture resistance

- Factory-applied pvc foil covering acts as a highly effective vapour barrier
- Stepped joint faces ensure a vapour seal and accurate location
- Most insulation tube manufacturers require gluing of the joint faces

### Working temperature

- Working temperature from -45°C up to +105°C

### Fire resistance

- Walraven BISOFIX® E insulating pipe supports have a fire rating of Class B2

### Thermal performance

- With a 25-year aged thermal conductivity of 0.024-0.026 W/m K at 10°C with the <80mm outer diameter of the pipe and 0.030-0.032 W/m K at 10°C with the insulating pipe supports for >80mm pipe outer diameter, BISOFIX® E is quick in application and covers every requirement



## BISOFIX® E in combination with different clamps for indoor and outdoor applications

At Walraven, offering smart solutions starts with smart product designs and applications. The right product combination of insulating pipe supports and fixing material provides the highest installation quality you want to experience and present to your customers. Whether completing a job indoors or outdoors, the Walraven fixing materials that are offered in combination with the insulating pipe supports deliver the expected results.

For heavy outdoor applications, the insulating pipe supports are combined with HD 500 clamps. For both indoor and outdoor applications, the Walraven Bifix® G2 clamps deliver the perfect solution. If the installation is situated indoors and the specific environment does not demand higher specifications, then the Walraven 2S clamps will be an ideal solution.



■ BISOFIX® E with 2S Clamp



■ BISOFIX® E with Bifix® G2 Clamp



■ BISOFIX® E with HD 500 Clamp

## Find out how we can support you

Would you like to find out more about any of the solutions described in this brochure?  
Or would you like to discuss how we could help you find the best possible solution for your project? Get in touch today!

### Other countries

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