

## FLAMRO Variant N-B

EI 120 / 240

ETA-15/0907

### Special Benefits

- Fire resistance rating up to EI 240
- Easy and excellent usability

### Permitted Configuration

- Plastic pipes up to Ø 160 mm

### Form of Delivery

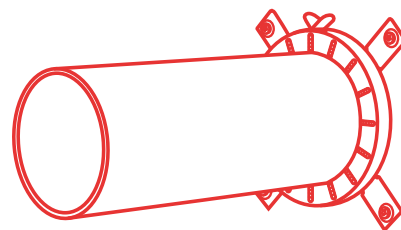
Article Description	Content / Dimensions	Art. No.
FLAMRO Variant N-B 50 Fire Protection Collar	Ø 50 mm	19050
FLAMRO Variant N-B 63 Fire Protection Collar	Ø 63 mm	19063
FLAMRO Variant N-B 75 Fire Protection Collar	Ø 75 mm	19075
FLAMRO Variant N-B 90 Fire Protection Collar	Ø 90 mm	19090
FLAMRO Variant N-B 110 Fire Protection Collar	Ø 110 mm	19110
FLAMRO Variant N-B 125 Fire Protection Collar	Ø 125 mm	19125
FLAMRO Variant N-B 140 Fire Protection Collar	Ø 140 mm	19140
FLAMRO Variant N-B 160 Fire Protection Collar	Ø 160 mm	19160



How much material is required?

## Description

FLAMRO Variant N-B consists of a solid metal sleeve which is equipped with several layers of an intumescent material. In the event of a fire, the intumescent material expands and thus seals the opening hermetically against flames and smoke. For wall installations one pipe collar on each side of the wall and for floor installations one collar on the underside of the floor must be provided.



### Application walls

Type of pipes	Pipe diameter (mm)	Pipe wall thickness (mm)	Fire resistance rating
PVC	≤ 160	1,8 - 12,3	EI 120 U/C
PE	≤ 110	1,8 - 10,0	EI 120 U/C
PP	≤ 160	1,8 - 14,6	EI 90/120 U/C
COES Bluepower	≤ 110		EI 120 U/C
Wavin SiTech	≤ 110		EI 90/120 U/C
Geberit Silent-PP	≤ 110		EI 90/120 U/C
POLO-KAL NG	≤ 160		EI 90/120 U/C
REHAU RAUPIANO PLUS	≤ 160		EI 120 U/C
TRIPLUS 3 layer soundproof pipe	≤ 110		EI 120 U/C
aquatherm green pipe MS	≤ 110		EI 120 U/C

### Application floors

Type of pipes	Pipe diameter (mm)	Pipe wall thickness (mm)	Fire resistance rating
PVC	≤ 160	1,8 - 12,3	EI 120/240 U/C
PE	≤ 160	1,8 - 14,6	EI 120/240 U/C
PP	≤ 110	1,8 - 10,0	EI 180/240 U/C
Wavin SiTech	≤ 160		EI 60/120 U/C
Geberit Silent-PP	≤ 110		EI 120 U/C
POLO-KAL NG	≤ 110		EI 90/120 U/C
aquatherm green pipe MS	≤ 110	2,2 - 15,2	EI 120 U/C
Uponor MLC pipe white	≤ 110	4,5 - 10,0	EI 90/120 U/C

## Installation Data

	Rigid wall	Solid floors	Lightweight partition walls
Wall/floor thickness	min. 100 mm	min. 150 mm	min. 94 mm
Max. pipe diameter	∅ ≤ 160 mm	∅ ≤ 160 mm	∅ ≤ 160 mm