

DESCRIPTION

The **Tecsel® Collar** is made up of a metallic casing of 0,7 mm thick of galvanised steel or 0,5 mm of stainless steel with attached intumescent graphite sheets of 2,5 mm thick and 30 or 60 mm wide, depending on the collar diameter.

Under the influence of fire, the expandable graphite strip swells and blocks the opening in the plastic pipe, which prevents fire or smoke spreading across various fire sectors.

TESTS

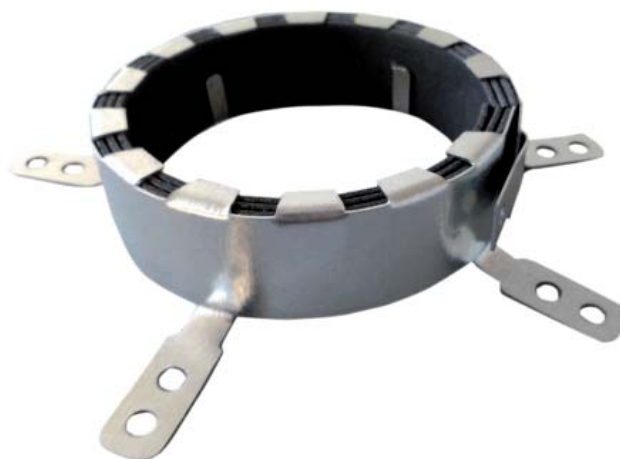
The **Tecsel® Collar** has been tested in compliance with the European Standard **UNE EN 1366-3** and has **CE** mark with **ETA-17/0676 (EAD)**.

Test N°: CR-042-17 AUPE

Laboratory: ITB y FIRES

CLASSIFICATION OF USE

Typo Z1: Intended for indoor use in conditions superior 85% of relative humidity, excluding temperatures below 0 °C, without exposure to rain and UV rays.



MODELS

MODEL	DIMENSIONS*
Tecsel® Collars	50 mm
Tecsel® Collars	63 mm
Tecsel® Collars	75 mm
Tecsel® Collars	90 mm
Tecsel® Collars	110 mm
Tecsel® Collars	125 mm
Tecsel® Collars	160 mm
Tecsel® Collars	200 mm
Tecsel® Collars	225 mm
Tecsel® Collars	250 mm
Tecsel® Collars	315 mm
Tecsel® Collars	400 mm
Tecsel® Collars	450 mm

APPLICATION AND USES

The **Tecsel® Collars** have been tested on rigid and flexible partition walls and slabs.

The **Tecsel® Collars** have been tested for different thermoplastic pipes such as: PVC-U, PVC-C, PE-HD, PE, ABS, SAN + PVC, PP-R, etc.

HEALTH AND SAFETY

The following considerations must be taken into account when handling **Tecsel® Collar**:

- Wearing protective gloves to protect the hands is recommended.
- Respect the regular work measures.

Consult the safety datasheet for further information.

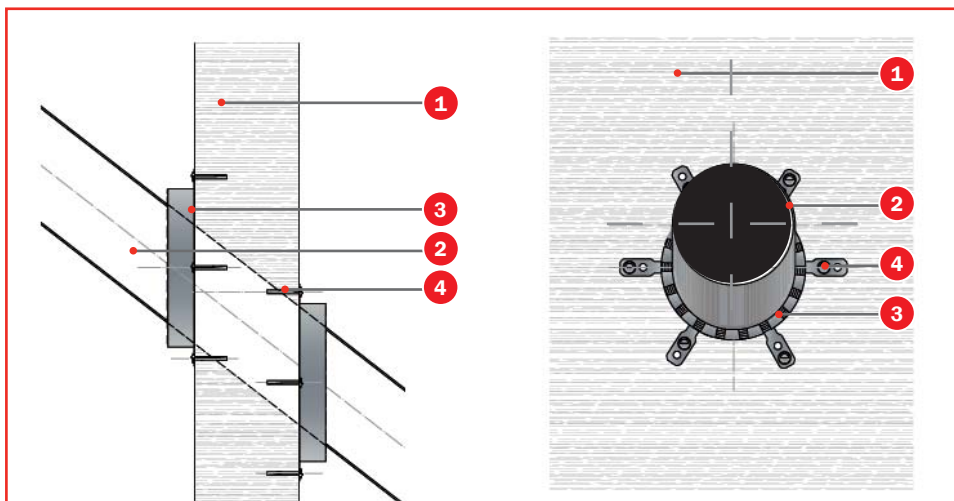


INSTALLATION CONFIGURATIONS

1. Installation on partition wall

1. Sealing of thermoplastic pipe crossing over rigid or flexible partition walls, placed at inclined angles (from 0° to 89°)

- 1 Rigid or flexible partition wall
- 2 Thermoplastic pipe
- 3 Tecsel® Collar
- 4 Anchorage or fixation M6



Classification of Fire Resistance for the sealing of thermoplastic pipes on rigid and flexible partition walls

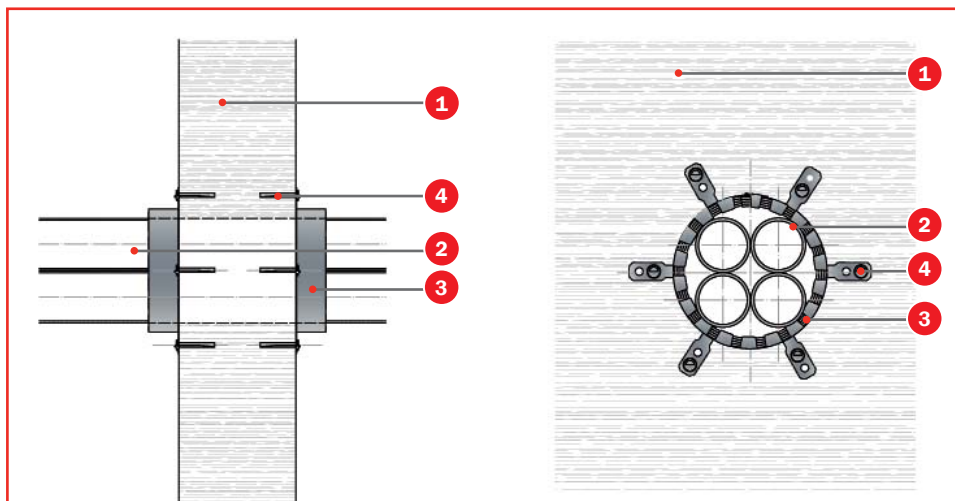
Pipe	Pipe diameter (mm)	Thickness of the pipe wall (mm)	Intumescent Material		Classification of Fire Resistance
			Width (mm)	Thickness (mm)	
PVC-U/ PVC-C	$\emptyset \leq 32$	1,8-3,4	30	5,0	EI 60 - U/C EI 60 - C/C
	$32 < \emptyset \leq 51$	2,2-4,1	30	7,5	
	$51 < \emptyset \leq 71$	2,5-4,9	30	10,0	
	$71 < \emptyset \leq 90$	2,9-5,7	30	12,5	
	$90 < \emptyset \leq 110$	3,2-6,5	30	15,0	
	$110 < \emptyset \leq 135$	3,2-5,6	60	17,5	
	$135 < \emptyset \leq 160$	3,2-4,7	60	20,0	EI 90 - U/C EI 90 - C/C
	$\emptyset \leq 32$	3,4	30	5,0	
	$32 < \emptyset \leq 51$	3,4-4,1	30	7,5	
	$51 < \emptyset \leq 71$	3,3-4,9	30	10,0	
	$71 < \emptyset \leq 90$	3,3-5,7	30	12,5	
	$90 < \emptyset \leq 110$	3,2-6,5	30	15,0	
	$110 < \emptyset \leq 135$	3,2-5,6	60	17,5	EI 120 - U/C EI 120 - C/C
	$135 < \emptyset \leq 160$	3,2-4,7	60	20,0	
	$\emptyset \leq 32$	3,4	30	5,0	
	$32 < \emptyset \leq 51$	3,4-4,1	30	7,5	
	$51 < \emptyset \leq 71$	3,3-4,9	30	10,0	
	$71 < \emptyset \leq 90$	3,3-5,7	30	12,5	
$90 < \emptyset \leq 110$	3,2-6,5	30	15,0		
$110 < \emptyset \leq 135$	3,2-5,6	60	17,5		
$135 < \emptyset \leq 160$	3,2-4,7	60	20,0		

INSTALLATION CONFIGURATIONS

1. Installation on partition wall

2. Sealing of multiple thermoplastic pipes crossing over rigid or flexible partition walls

- 1 Rigid or flexible partition wall
- 2 Thermoplastic pipe
(maximum 4 pipes bundle)
- 3 Tecsel® Collar
- 4 Anchorage or fixation M6



Classification of Fire Resistance for the sealing of thermoplastic pipes on rigid and flexible partition walls

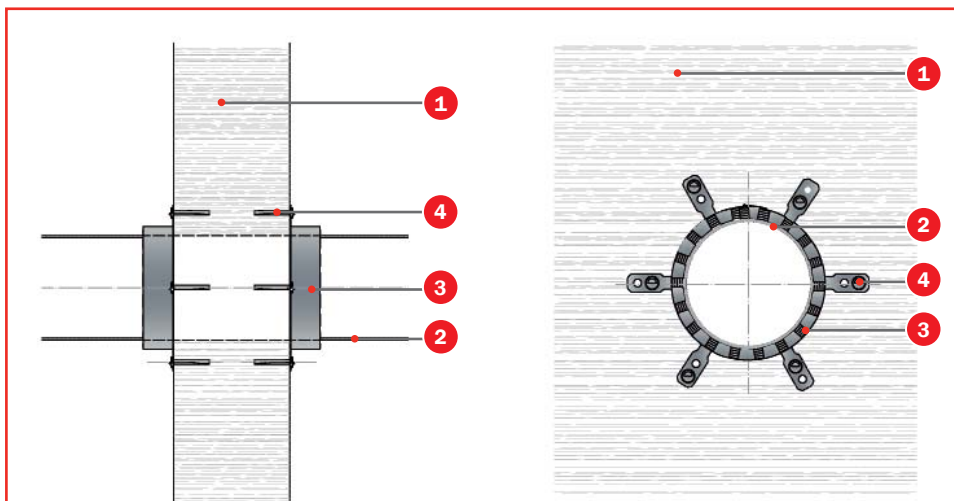
Pipe	Pipe diameter (mm)	Thickness of the pipe wall (mm)	Intumescent Material		Classification of Fire Resistance
			Width (mm)	Thickness (mm)	
PP-R	$\emptyset \leq 32$	2,9-5,4	30	7,5	EI 60 - U/C EI 60 - C/C
	$32 < \emptyset \leq 40$	3,5-5,4	60	10,0	
	$40 < \emptyset \leq 49$	4,1-5,5	60	12,5	
	$49 < \emptyset \leq 57$	4,6-5,6	60	15,0	
	$57 < \emptyset \leq 66$	5,2-5,7	60	17,5	
	$66 < \emptyset \leq 75$	5,8	60	20,0	
	$\emptyset \leq 32$	2,9-5,4	30	7,5	EI 90 - U/C EI 90 - C/C
	$32 < \emptyset \leq 40$	3,5-5,4	60	10,0	
	$40 < \emptyset \leq 49$	4,1-5,5	60	12,5	
	$49 < \emptyset \leq 57$	4,6-5,6	60	15,0	
	$57 < \emptyset \leq 66$	5,2-5,7	60	17,5	
	$66 < \emptyset \leq 75$	5,8	60	20,0	
	$\emptyset \leq 32$	2,9-5,4	30	7,5	EI 120 - U/C EI 120 - C/C
	$32 < \emptyset \leq 40$	3,5-5,4	60	10,0	
	$40 < \emptyset \leq 49$	4,1-5,5	60	12,5	
	$49 < \emptyset \leq 57$	4,6-5,6	60	15,0	
	$57 < \emptyset \leq 66$	5,2-5,7	60	17,5	
	$66 < \emptyset \leq 75$	5,8	60	20,0	

INSTALLATION CONFIGURATIONS

1. Installation on partition wall

3. Sealing of thermoplastic pipes crossing over rigid or flexible partition walls

- 1 Rigid or flexible partition wall
- 2 Thermoplastic pipe
- 3 Tecsel® Collar
- 4 Anchorage or fixation M6



Classification of Fire Resistance for the sealing of thermoplastic pipes on rigid and flexible partition walls

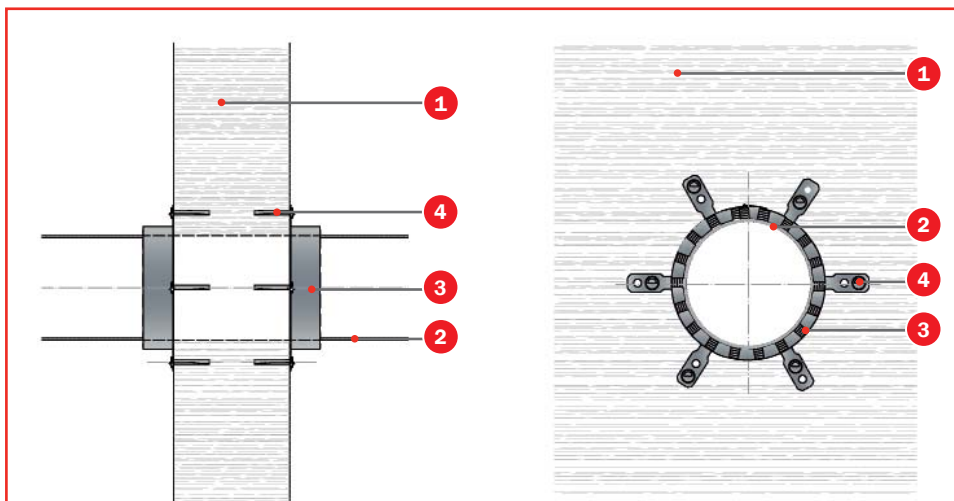
Pipe	Pipe diameter (mm)	Thickness of the pipe wall (mm)	Intumescent Material		Classification of Fire Resistance
			Width (mm)	Thickness (mm)	
PE-HD	$\emptyset \leq 63$	3,0-5,8	30	5,0	EI 60 - U/C EI 60 - C/C
	$63 < \emptyset \leq 87$	3,8-7,9	30	7,5	
	$87 < \emptyset \leq 111$	4,6-10,1	30	10,0	
	$111 < \emptyset \leq 135$	5,4-12,3	30	12,5	
	$135 < \emptyset \leq 160$	6,2-14,6	30	15,0	
	$160 < \emptyset \leq 205$	7,9-14,6	60	17,5	
	$205 < \emptyset \leq 250$	9,6-14,6	60	20,0	
PP-R	$\emptyset \leq 63$	5,8	30	5,0	EI 60 - U/C EI 60 - C/C
		5,9-7,9	30	7,5	
	$63 < \emptyset \leq 87$	5,8-7,9	30	7,5	
	$87 < \emptyset \leq 111$	5,8-10,1	30	10,0	
	$111 < \emptyset \leq 135$	5,7-12,3	30	12,5	
PVC-U/ PVC-C	$\emptyset \leq 63$	2,0-5,1	30	5,0	EI 60 - U/C EI 60 - C/C
	$63 < \emptyset \leq 87$	2,3-5,0	30	7,5	
	$87 < \emptyset \leq 111$	2,6-4,9	30	10,0	
	$111 < \emptyset \leq 135$	2,9-4,8	30	12,5	
	$135 < \emptyset \leq 160$	3,2-4,7	30	15,0	
	$160 < \emptyset \leq 205$	4,7-8,5	60	17,5	
	$205 < \emptyset \leq 250$	6,2-9,6	60	20,0	

INSTALLATION CONFIGURATIONS

1. Installation on partition wall

3. Sealing of thermoplastic pipes crossing over rigid or flexible partition walls

- 1 Rigid or flexible partition wall
- 2 Thermoplastic pipe
- 3 Tecsel® Collar
- 4 Anchorage or fixation M6



Classification of Fire Resistance for the sealing of thermoplastic pipes on rigid and flexible partition walls

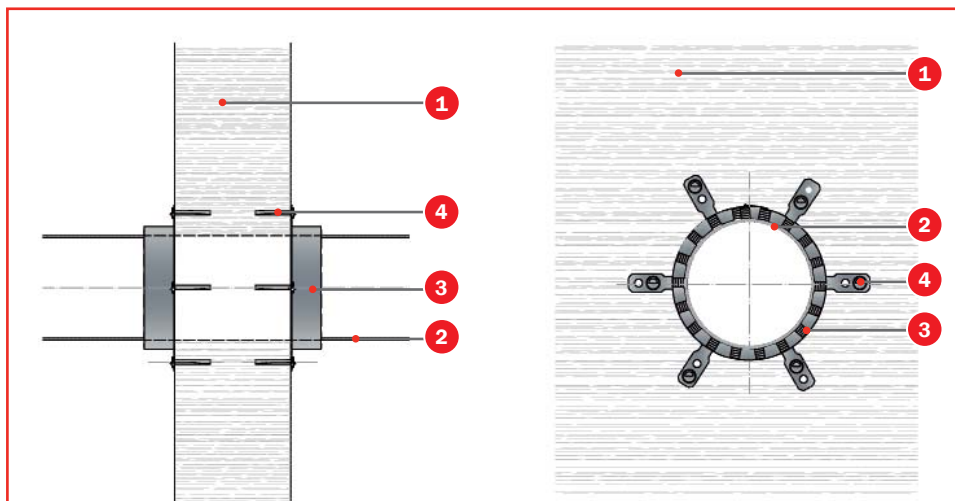
Pipe	Pipe diameter (mm)	Thickness of the pipe wall (mm)	Intumescent Material		Classification of Fire Resistance
			Width (mm)	Thickness (mm)	
PE-HD	$\emptyset \leq 63$	3,0-5,8	30	5,0	EI 90 - U/C EI 90 - C/C
	$63 < \emptyset \leq 87$	3,8-7,9	30	7,5	
	$87 < \emptyset \leq 111$	4,6-10,1	30	10,0	
	$111 < \emptyset \leq 135$	5,4-12,3	30	12,5	
	$135 < \emptyset \leq 160$	6,2-14,6	30	15,0	
	$160 < \emptyset \leq 205$	7,9-14,6	60	17,5	
	$205 < \emptyset \leq 250$	9,6-14,6	60	20,0	
PP-R	$\emptyset \leq 63$	5,8	30	5,0	EI 90 - U/C EI 90 - C/C
		5,9-7,9	30	7,5	
	$63 < \emptyset \leq 87$	5,8-7,9	30	7,5	
	$87 < \emptyset \leq 111$	5,8-10,1	30	10,0	
	$111 < \emptyset \leq 135$	5,7-12,3	30	12,5	
$135 < \emptyset \leq 160$	5,6-14,6	30	15,0		
PVC-U/ PVC-C	$\emptyset \leq 63$	2,0-5,1	30	5,0	EI 90 - U/C EI 90 - C/C
	$63 < \emptyset \leq 87$	2,3-5,0	30	7,5	
	$87 < \emptyset \leq 111$	2,6-4,9	30	10,0	
	$111 < \emptyset \leq 135$	2,9-4,8	30	12,5	
	$135 < \emptyset \leq 160$	3,2-4,7	30	15,0	
	$160 < \emptyset \leq 205$	4,7-8,5	60	17,5	
	$205 < \emptyset \leq 250$	6,2-9,6	60	20,0	

INSTALLATION CONFIGURATIONS

1. Installation on partition wall

3. Sealing of thermoplastic pipes crossing over rigid or flexible partition walls

- 1 Rigid or flexible partition wall
- 2 Thermoplastic pipe
- 3 Tecsel® Collar
- 4 Anchorage or fixation M6



Classification of Fire Resistance for the sealing of thermoplastic pipes on rigid and flexible partition walls

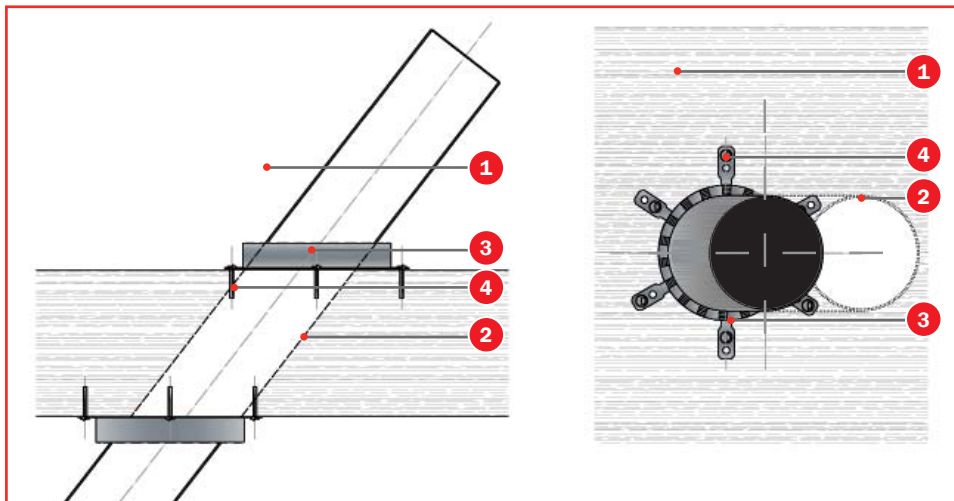
Pipe	Pipe diameter (mm)	Thickness of the pipe wall (mm)	Intumescent Material		Classification of Fire Resistance
			Width (mm)	Thickness (mm)	
PE-HD	$\emptyset \leq 63$	3,0-5,8	30	5,0	EI 120 - U/C EI 120 - C/C
	$63 < \emptyset \leq 87$	3,8-7,9	30	7,5	
	$87 < \emptyset \leq 111$	4,6-10,1	30	10,0	
	$111 < \emptyset \leq 135$	5,4-12,3	30	12,5	
	$135 < \emptyset \leq 160$	6,2-14,6	30	15,0	
PP-R	$\emptyset \leq 63$	5,8	30	5,0	EI 120 - U/C EI 120 - C/C
		5,9-7,9	30	7,5	
	$63 < \emptyset \leq 87$	5,8-7,9	30	7,5	
	$87 < \emptyset \leq 111$	5,8-10,1	30	10,0	
	$111 < \emptyset \leq 135$	5,7-12,3	30	12,5	
$135 < \emptyset \leq 160$	5,6-14,6	30	15,0		
PVC-U/ PVC-C	$\emptyset \leq 63$	2,0-5,1	30	5,0	EI 120 - U/C EI 120 - C/C
	$63 < \emptyset \leq 87$	2,3-5,0	30	7,5	
	$87 < \emptyset \leq 111$	2,6-4,9	30	10,0	
	$111 < \emptyset \leq 135$	2,9-4,8	30	12,5	
	$135 < \emptyset \leq 160$	3,2-4,7	30	15,0	
	$160 < \emptyset \leq 205$	4,7-8,5	60	17,5	
	$205 < \emptyset \leq 250$	6,2-9,6	60	20,0	

INSTALLATION CONFIGURATIONS

2. Installation on slab

1. Sealing of thermoplastic pipe crossing over slabs, placed at inclined angles (from 0° to 89°)

- 1 Slab thickness ≥ 150 mm and density ≥ 600 kg/m³
- 2 Thermoplastic pipe
- 3 Tecsel® Collar
- 4 Anchorage or fixation M6



Classification of Fire Resistance for the sealing of thermoplastic pipes on slabs

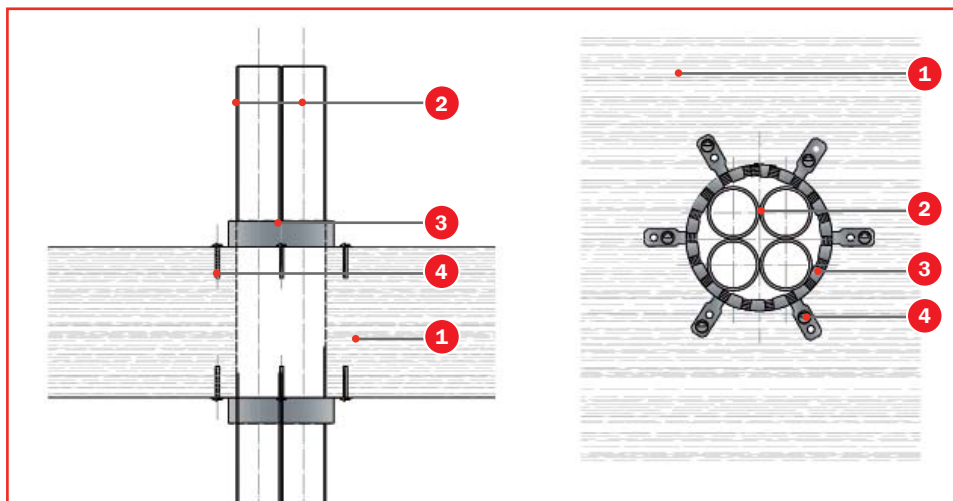
Pipe	Pipe diameter (mm)	Thickness of the pipe wall (mm)	Intumescent Material		Classification of Fire Resistance
			Width (mm)	Thickness (mm)	
PVC-U/ PVC-C	$\emptyset \leq 32$	1,8-3,4	30	5,0	EI 90 - U/C EI 90 - C/C
	$32 < \emptyset \leq 51$	2,2-4,1	30	7,5	
	$51 < \emptyset \leq 71$	2,5-4,9	30	10,0	
	$71 < \emptyset \leq 90$	2,9-5,7	30	12,5	
	$90 < \emptyset \leq 110$	3,2-6,5	30	15,0	
	$110 < \emptyset \leq 135$	3,2-5,6	60	17,5	
	$135 < \emptyset \leq 160$	3,2-4,7	60	20,0	EI 120 - U/C EI 120 - C/C
	$\emptyset \leq 32$	1,8-3,4	30	5,0	
	$32 < \emptyset \leq 51$	2,2-4,1	30	7,5	
	$51 < \emptyset \leq 71$	2,5-4,9	30	10,0	
	$71 < \emptyset \leq 90$	2,9-5,7	30	12,5	
	$90 < \emptyset \leq 110$	3,2-6,5	30	15,0	
	$110 < \emptyset \leq 135$	3,2-5,6	60	17,5	
	$135 < \emptyset \leq 160$	3,2-4,7	60	20,0	

INSTALLATION CONFIGURATIONS

2. Installation on slab

2. Sealing of multiple thermoplastic pipes crossing over slabs

- 1 Slab thickness ≥ 150 mm and density ≥ 600 kg/m³
- 2 Thermoplastic pipe
- 3 Tecsel® Collar
- 4 Anchorage or fixation M6



Classification of Fire Resistance for the sealing of thermoplastic pipes on slabs

Pipe	Pipe diameter (mm)	Thickness of the pipe wall (mm)	Intumescent Material		Classification of Fire Resistance
			Width (mm)	Thickness (mm)	
PP-R	$\emptyset \leq 32$	2,9-5,4	30	7,5	EI 90 - U/C EI 90 - C/C
	$32 < \emptyset \leq 40$	3,5-6,7	60	10,0	
	$40 < \emptyset \leq 49$	4,1-8,2	60	12,5	
	$49 < \emptyset \leq 57$	4,6-9,5	60	15,0	
	$57 < \emptyset \leq 66$	5,2-11,0	60	17,5	
	$66 < \emptyset \leq 75$	5,8-12,5	60	20,0	
	$\emptyset \leq 32$	2,9-5,4	30	7,5	EI 120 - U/C EI 120 - C/C
	$32 < \emptyset \leq 40$	3,5-6,7	60	10,0	
	$40 < \emptyset \leq 49$	4,1-8,2	60	12,5	
	$49 < \emptyset \leq 57$	4,6-9,5	60	15,0	
	$57 < \emptyset \leq 66$	5,2-11,0	60	17,5	
	$66 < \emptyset \leq 75$	5,8-12,5	60	20,0	

Our new TECSEL® COLLAR is an accurate equivalent of the former TECWOOL® COLLAR.

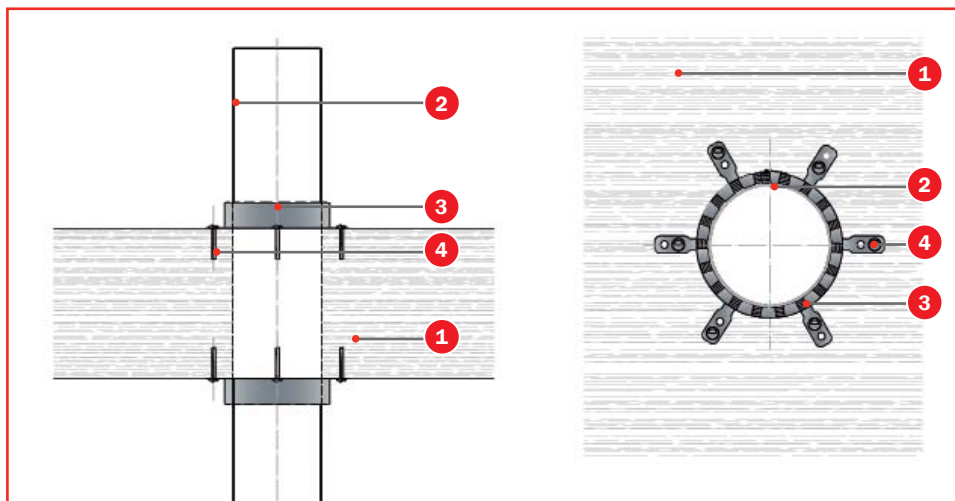
Date of revision: 14/03/2018
Revision number: 3
Date of issue: 11/08/2015

INSTALLATION CONFIGURATIONS

2. Installation on slab

2. Sealing of thermoplastic pipes crossing over slabs

- 1 Slab thickness ≥ 150 mm and density ≥ 600 kg/m³
- 2 Thermoplastic pipe
- 3 Tecsel® Collar
- 4 Anchorage or fixation M6



Classification of Fire Resistance for the sealing of thermoplastic pipes on slabs

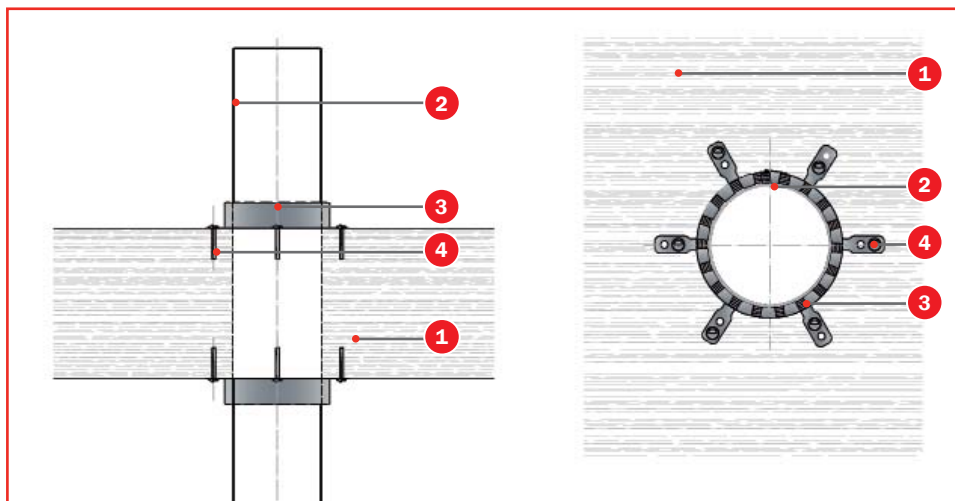
Pipe	Pipe diameter (mm)	Thickness of the pipe wall (mm)	Intumescent Material		Classification of Fire Resistance
			Width (mm)	Thickness (mm)	
PE-HD	$\emptyset \leq 63$	3,0-5,8	30	5,0	EI 90 - U/C EI 90 - C/C
	$63 < \emptyset \leq 87$	3,8-7,9	30	7,5	
	$87 < \emptyset \leq 111$	4,6-10,1	30	10,0	
	$111 < \emptyset \leq 135$	5,4-12,3	30	12,5	
	$135 < \emptyset \leq 160$	6,2-14,6	30	15,0	
	$160 < \emptyset \leq 205$	7,9-14,6	60	17,5	
	$205 < \emptyset \leq 250$	9,6-14,6	60	20,0	
PP-R	$\emptyset \leq 63$	5,8-10,5	30	5,0	EI 90 - U/C EI 90 - C/C
	$63 < \emptyset \leq 87$	5,8-11,5	30	7,5	
	$87 < \emptyset \leq 111$	5,8-12,5	30	10,0	
	$111 < \emptyset \leq 135$	5,7-13,5	30	12,5	
	$135 < \emptyset \leq 160$	5,6-14,6	30	15,0	
PVC-U/ PVC-C	$\emptyset \leq 63$	2,0-5,1	30	5,0	EI 90 - U/C EI 90 - C/C
	$63 < \emptyset \leq 87$	2,3-5,0	30	7,5	
	$87 < \emptyset \leq 111$	2,6-4,9	30	10,0	
	$111 < \emptyset \leq 135$	2,9-4,8	30	12,5	
	$135 < \emptyset \leq 160$	3,2-4,7	30	15,0	
	$160 < \emptyset \leq 205$	4,7-8,5	60	17,5	
	$205 < \emptyset \leq 250$	6,2-9,6	60	20,0	

INSTALLATION CONFIGURATIONS

2. Installation on slab

2. Sealing of thermoplastic pipes crossing over slabs

- 1 Slab thickness ≥ 150 mm and density ≥ 600 kg/m³
- 2 Thermoplastic pipe
- 3 Tecsel® Collar
- 4 Anchorage or fixation M6



Classification of Fire Resistance for the sealing of thermoplastic pipes on slabs

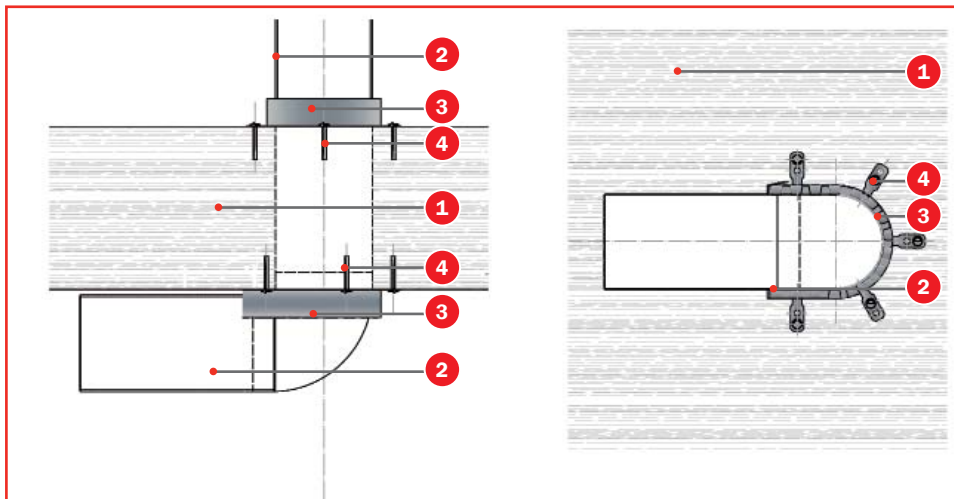
Pipe	Pipe diameter (mm)	Thickness of the pipe wall (mm)	Intumescent Material		Classification of Fire Resistance
			Width (mm)	Thickness (mm)	
PE-HD	$\emptyset \leq 63$	3,0-5,8	30	5,0	EI 120-U/C EI 120-C/C
	$63 < \emptyset \leq 87$	3,8-7,9	30	7,5	
	$87 < \emptyset \leq 111$	4,6-10,1	30	10,0	
	$111 < \emptyset \leq 135$	5,4-12,3	30	12,5	
	$135 < \emptyset \leq 160$	6,2-14,6	30	15,0	
	$160 < \emptyset \leq 205$	7,9-12,1	60	17,5	
	$205 < \emptyset \leq 250$	9,6	60	20,0	
PP-R	$\emptyset \leq 63$	5,8-10,5	30	5,0	EI 120-U/C EI 120-U/C
	$63 < \emptyset \leq 87$	5,8-9,2	30	7,5	
	$87 < \emptyset \leq 111$	5,8-8,0	30	10,0	
	$111 < \emptyset \leq 135$	5,7-6,8	30	12,5	
	$135 < \emptyset \leq 160$	5,6	30	15,0	
PVC-U/ PVC-C	$\emptyset \leq 63$	2,0-5,1	30	5,0	EI 120-U/C EI 120-C/C
	$63 < \emptyset \leq 87$	2,3-5,0	30	7,5	
	$87 < \emptyset \leq 111$	2,6-4,9	30	10,0	
	$111 < \emptyset \leq 135$	2,9-4,8	30	12,5	
	$135 < \emptyset \leq 160$	3,2-4,7	30	15,0	
	$160 < \emptyset \leq 205$	4,7-8,5	60	17,5	
	$205 < \emptyset \leq 250$	6,2-9,6	60	20,0	

SPECIAL CONFIGURATIONS ON SLABS

3. Pipe elbows

1. Sealing of thermoplastic pipes crossing over slabs; pipe elbows

- 1 Slab thickness ≥ 150 mm and density ≥ 600 kg/m³
- 2 Thermoplastic pipe
- 3 Tecsel® Collar
- 4 Anchorage or fixation M6



Classification of Fire Resistance for the sealing of thermoplastic pipes on elbows over slabs

Pipe	Pipe diameter (mm)	Thickness of the pipe wall (mm)	Intumescent Material		Classification of Fire Resistance
			Width (mm)	Thickness (mm)	
PVC-U/ PVC-C	$\varnothing \leq 63$	2,0-5,1	30	5,0	EI 90-U/C EI 90-C/C
	$63 < \varnothing \leq 86$	2,3-5,0	30	7,5	
	$86 < \varnothing \leq 110$	2,6-4,9	30	10,0	
	$110 < \varnothing \leq 135$	2,9-4,8	30	12,5	
	$135 < \varnothing \leq 160$	3,2-4,7	30	15,0	
	$\varnothing \leq 63$	2,0-5,1	30	5,0	EI 120-U/C EI 120-U/C
	$63 < \varnothing \leq 86$	2,3-5,0	30	7,5	
	$86 < \varnothing \leq 110$	2,6-4,9	30	10,0	
	$110 < \varnothing \leq 135$	2,9-4,8	30	12,5	
	$135 < \varnothing \leq 160$	3,2-4,7	30	15,0	