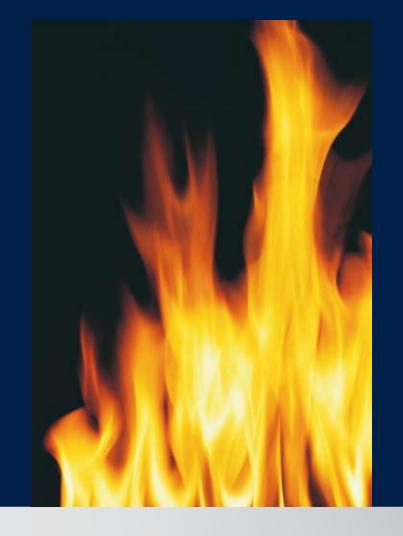
BLÜCHER® EuroPipe

Non-combustible drainage solutions





BLÜCHER®

KEEPING UP THE FLOW



Stop the fire

In the event of a fire, it is of vital importance to stop or delay the fire spreading into other parts of the building. This will give the persons in the building time to escape and reduce the damage caused by the fire to only that part of the building.

To prevent fire spreading and damage caused in the event of fire, it is important to consider the construction elements that penetrate various fire compartments, for instance the drainage piping:

- Is the pipework combustible, allowing fire to spread directly via the pipes?
- Is any kind of fire insulation required for the pipework?
- Have the pipe penetrations from one fire compartment to another been sealed, and is the sealing an approved fire-safe solution?
- Has the level of heat transmission through the installation been taken into consideration?
- In case of a fire, will there be risk of emission of smoke and toxic fumes from combustible components?

BLÜCHER® EuroPipe drainage pipes and fittings are all in stainless steel, which cannot burn. They do not require any fire collars and will not cause spread of fire either up or down.



Reaction to fire

BLÜCHER® EuroPipe drainage pipes and fittings are all in stainless steel. According to an EU Commission Decision* stainless steel is a non-combustible material not contributing to fire.



RATING CLASSES

Class A is for non-combustible products like stainless steel, galvanized steel and cast iron. The class A comprises a number of sub-classes:

- A1 is the best fire rating and does not have any sub-classes
- A2 is a slightly inferior fire rating and has sub-classes S1-S3 and d0-d2

Class B are for combustible products like plastics, and furthermore classes C, D, E and F exist.

BLÜCHER® EuroPipe drainage pipes and fittings are in stainless steel which is rated class A1.

^{*} Commission Decision of 4th October 1996 "Establishing the list of products belonging to Classes A "No contribution to fire" provided for in Decision 94/611/EC implementing Article 20 of Council Directive 89/106/EEC on construction products.



Spread of fire

BLÜCHER has carried out fire testing for BLÜCHER® EuroPipe stack pipes Ø50-Ø250mm according to the European standard EN 1366-3 (Fire resistance tests for service installations - Part 3: Penetration seals)

And the BLÜCHER® EuroPipe system has been classified according to the European standard EN13501-2 (Fire classifications of construction products and building elements - Part 2: Classifications using data from fire resistance tests, excluding ventilation services).

FIRE RATINGS

Fire ratings according to EI 60, EI 90 and EI 120 require that penetrations remain intact throughout the entire test and that the heat transmission during the test period does not exceed the limits set. Consequently, a construction may require insulation in full or in part. For details regarding insulation of BLÜCHER® EuroPipe please see page 6 - 7.

Fire ratings according to E 120 do not take heat transmission into consideration, and consequently only require that the integrity, i.e. fire resistance is maintained throughout the test period stated.

Explanation: E - Integrity, i.e. maintaining functionality

I - Temperature requirements (max 180°C temperature increase)

60, 90 and 120 - duration of fire resistance

BLÜCHER holds the following classification report: Report with fire rating E120, EI 60, EI 90 and EI 120 – According to EN13501-2

APPROVED VERTICAL FIRE SEAL CONSTRUCTIONS

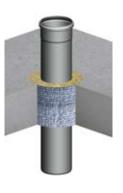
The gap between pipe and rigid floor can be closed in either one of the following ways:

A. Concrete



Casted mortar in oversize hole, approx. d + 40 mm

B. Stone wool insulation



Stone wool insulation, density min. 155 kg/m³ and reaction to fire A1 or A2. Silicate mastic applied on top of and underneath the stone wool

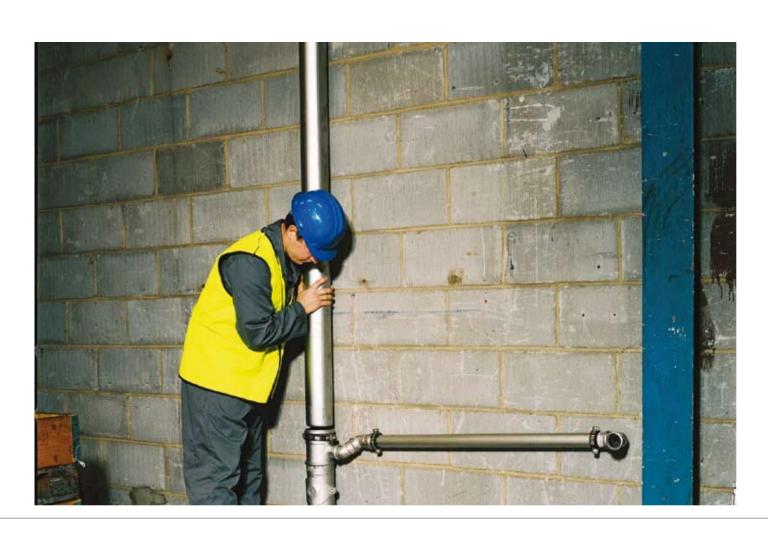
PIPE INSULATION

For detailed information on insulation, please see page 6 - 7. Minimum insulation densities are:

- For pipe diameter Ø50 mm = 76 kg/m³
- For pipe diameters Ø75 Ø250 mm = 118 kg/m³

FIELDS OF APPLICATIONS

- Pipes penetrating rigid floors with thickness minimum 150 mm and density minimum 650 kg/m³
- Single service pipe with a minimum separating distance of 100 mm between the pipes (measured from outside of pipe wall or insulation to outside of pipe wall or insulation)
- Pipes with increased length of insulation as compared to the length specified
- · Pipes with increased density of insulation as compared to the density specified
- Pipes must be fixed with stainless steel pipe hangers or BLÜCHER joint clamps to maintain a closed system
- Only vertical pipe penetrations

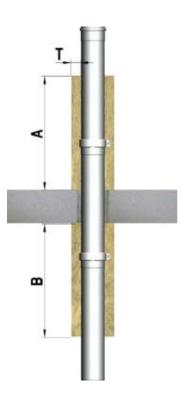




Fire insulation of BLÜCHER® EuroPipe

Vertical pipe lines			<u></u>				
Fire seal:		Insulation dimensions					
Casted mortar	Pipe dimension	Fire class According to	Dim T Insulation on pipe	Dim A Insulation on pipe	Dim B Insulation on pipe		
	ġ	EN13501-2 E120	thickness	(Unexposed side)	(Exposed side) not required		
9	9	E160			not required		
	Ø 20	EI90	-	Insulation not required			
		EI120	ı	Insulation not required			
		E120		Insulation not required			
	Ø75	EI60	30mm	500mm	500mm		
	Ø	EI90	30mm	500mm	500mm		
		EI120	30mm	500mm	500mm not required		
	7	E120 E160	30mm	500mm	500mm		
	Ø82	EI90	30mm	500mm	500mm		
Y		EI120	30mm	500mm	500mm		
		E120		Insulation	not required		
	Ø110	EI60	30mm	500mm	500mm		
	Ø	EI90	30mm	500mm	500mm		
		EI120	30mm	500mm	500mm		
- TO 1885	'n	E120	20mm		not required		
COPPE A	Ø125	EI60 EI90	30mm 30mm	500mm 500mm	500mm 500mm		
The state of the s	■ Ø	EI120	30mm	500mm	500mm 500mm		
	7	E120			not required		
	09	E160	40mm	500mm	500mm		
	Ø160	EI90	40mm	500mm	500mm		
		EI120	40mm	1000mm	1000mm		
		E120	-		not required		
	١ă	EI60	40mm	500mm	500mm		
		EI90	40mm	1000mm	1000mm		
	Ø200	E1400					
	Ø	E1120	40mm	Continuous	Continuous		
	-	E120	-	Insulation	not required		
	-		40mm 40mm 40mm				
	Ø250 Ø3	E120 E160	 40mm	Insulation 500mm	not required 500mm		
Fire coal:	-	E120 E160 E190 E1120	40mm 40mm 40mm	500mm 1000mm Continuous	not required 500mm 1000mm		
Fire seal: Stone wool	Ø250	E120 E160 E190 E1120 Fire class According to	40mm 40mm 40mm nsulation di Dim T	Insulation 500mm 1000mm Continuous Mensions Dim A Insulation on pipe	not required 500mm 1000mm Continuous Dim B Insulation on pipe		
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	Pipe dimension	E120 E160 E190 E1120 Fire class According to EN13501-2 E120 E160 E190 E1120	40mm 40mm 40mm Sulation di Dim T Insulation on pipe thickness 20mm	Insulation 500mm 1000mm Continuous Mensions Dim A Insulation on pipe (Unexposed side) Insulation 500mm 500mm	not required 500mm 1000mm Continuous Dim B Insulation on pipe (Exposed side) not required 500mm 500mm 500mm		
	Ø50 Pipe Ø250	E120 E160 E190 E1420 Fire class According to E1420 E1420 E160 E190 E1420 E1420 E1420	40mm 40mm A0mm Sulation dil Dim T Insulation o pipe thickness 20mm 20mm	Insulation 500mm 1000mm Continuous Mensions Dim A Insulation on pipe (Unexposed side) Insulation 500mm 500mm Insulation	not required 500mm 1000mm Continuous Dim B Insulation on pipe (Exposed side) not required 500mm 500mm not required		
	5 Ø50 dimension Ø250	E120 E160 E190 E1120 Fire class According to EN135012 E160 E190 E1120 E160 E190 E1120 E160 E160	40mm 40mm 40mm Sulation di Dim T Insulation on pipe thickness 20mm 20mm 20mm 30mm	Insulation 500mm 1000mm Continuous MENSIONS Dim A Insulation on pipe (Unexposed side) Insulation 500mm 500mm Insulation Insulation	not required 500mm 1000mm Continuous Dim B Insulation on pip Location on required 500mm 500mm 500mm not required 500mm 500mm 500mm 500mm		
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	5 Ø50 dimension Ø250	E120 E160 E190 E1120 Fire class According to EN135012 E160 E190 E1120 E160 E190 E1120 E160 E160	40mm 40mm 40mm Sulation di Dim T Insulation on pipe thickness 20mm 20mm 20mm 30mm	Insulation 500mm 1000mm Continuous Mensions Dim A Insulation on pipe (Unexposed side) Insulation 500mm 500mm Insulation 500mm 500mm 500mm 500mm	not required 500mm 1000mm Continuous Dim B Insulation on pip Location on required 500mm 500mm 500mm not required 500mm 500mm 500mm 500mm		
	Ø75 Ø50 Pipe Ø250	E120 E160 E190 E1420 Fire class According to EN13501-2 E120 E160 E190 E1120 E1660 E190 E1120 E160 E190 E1120 E160 E190 E1120	40mm 40mm 40mm 1 Sulation dil Dim T Insulation on pipe thickness 20mm 20mm 20mm 30mm 30mm	Insulation 500mm 1000mm Continuous Mensions Dim A Insulation on pipe (Unexposed side) Insulation 500mm 500mm Insulation 500mm 500mm 500mm 500mm	not required 500mm 1000mm Continuous Dim B Insulation on pip (Exposed side) not required 500mm 500mm not required 500mm 500mm 500mm 500mm		
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	0 Ø82 Ø75 Ø50 Pipe Ø250	E120 E160 E190 E1120 Fire class According to E120 E160 E190 E190 E120 E160 E190 E1120 E120 E160 E190 E1120 E120 E120 E120 E120 E120 E120 E1	40mm 40mm 40mm A0mm Sulation di Dim T Insulation on pipe thickness 20mm 20mm 20mm 30mm 30mm 30mm 30mm 30mm	Insulation 500mm 1000mm Continuous Mensions Dim A Insulation on pipe (Unexposed side) Insulation 500mm 500mm Insulation 500mm 500mm 1000mm Insulation	not required 500mm 1000mm Continuous Dim B Insulation on pipe (Exposed side) not required 500mm 500mm 500mm 500mm 500mm 500mm 1000mm 1000mm not required		
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Horizontal pipe lines								
Fire seal: Stone wool	Insulation dimensions							
	Pipe dimension	Fire class According to EN13501-2	Fire seal (Rockwool Conlit Pipesection) thickness	Dim T Insulation on pipe thickness	Dim A / B Insulation on pipe (Rockwool Alureinforced Pipesection on both sides)			
	ø50	EI60	≥ 20mm	≥ 20mm	1000mm			
	ø75	EI60	≥ 20mm	≥ 20mm	1000mm			
	ø82	EI60	≥ 20mm	≥ 20mm	1000mm			
	ø110	EI60	≥ 30mm	≥ 30mm	1000mm			
	ø125	EI60	≥ 30mm	≥ 30mm	1000mm			
	ø160	EI60	≥ 30mm	≥ 30mm	1000mm			
	ø200	EI60	≥ 40mm	≥ 40mm	1000mm			
	ø250	EI60	≥ 40mm	≥ 40mm	1000mm			



Note: All data re. horizontal pipe insulation is from Rockwool - For more details we refer to www.rockwool.dk or info@rockwool.dk

Insulation stated as "Continuous" is not classified in accordance with the EN classification report. For these, an expert assessment from DBI Danish Institute of Fire and Security Technology is available.

Please note that not all countries have fully adopted the European Classification Standard EN 13501-2, and these countries may require a separate national statement or approval.

More advantages of BLÜCHER® EuroPipe

High tensile strength Can use thinner material than other metallic systems

because of high strength to weight ratio.

Corrosion resistant Avoids the use of alternative materials that require

more maintenance or earlier replacement

Hygienic Non toxic, smooth surfaces, easily cleaned and sterilised

Low maintenance Less cleaning necessary

Long lifetime No replacement needed

Whole life cycle costs Long life, minimum maintenance and strong residual value

100% recyclable Not used in landfill



At BLÜCHER® more than 300 employees create an annual turnover of more than 50 million euro.

Through know-how, dedicated service and common sense we develop, produce and market high quality stainless steel drainage solutions for customers within the housing, commercial, industrial and marine sectors all over the world.

Find your local BLÜCHER® specialist at www.blucher.com

BLÜCHER® EuroPipe

BLÜCHER® Channel

BLÜCHER® Drain



