Installing fire dampers.
Flexible. Simple.
Safe.



FIRE PROTECTION

Smart solutions
with or without an installation subframe.

Trust you can build in.

WILDEBOER

Trust you can build in.

WILDEBOER



The benefits of Wildeboer installation subframes and mounting frames

- Quick and safe installation
- For round and rectangular fire dampers
- Maintenance-free thanks to fully enclosed design
- Factory-mounted or available separately

Wildeboer installation subframes and mounting frames are designed for quick, error-free installation. This significantly reduces installation time on site.

Correctly installed fire dampers also make successful approval and commissioning easier. With a wide range of tested installation configurations, Wildeboer mounting and installation subframes offer the right solution for your needs. No need for time-consuming documentation to verify correct installation of the fire damper.

Well-designed installation procedures also ensure quick and cost-effective installation.



FK90 fire damper
FK92 series



FR90 fire damper
FR92 series



FK90K fire damper
FK92K series



Installing fire dampers: Flexible. Simple. Safe.



Installation overview

Rigid walls and ceilings

Type of installation	Wall/ceiling type	Installation material	Minimum thickness [mm]	Fire resistance period [min]	Installation subframes / mounting frames
In	Rigid wall		70 / 95 / 100	60 / 90 / 120	
			70 / 95	60 / 90	ER2
			70 / 95	60 / 90	
			100	120	
In	Rigid wall made of gypsum blocks		80	120	
In	Non-load-bearing rigid wall underneath settlement joint		70 / 95	60 / 90	
Directly on	Rigid wall		100	90	AR1
Remote from	Rigid wall		100	90	AR2
Remote from	Rigid wall underneath rigid ceiling		100	90	AR2
Remote from and hanging horizontally under	Rigid ceiling		100	90	AR2
In	Rigid ceiling		100 / 115	90 / 120	
			100	90	ER2
			100	90	
			100	90	
Directly on	Rigid ceiling		100	90	AR1
On	Rigid ceiling with concrete base		100	90	
			100	90	AR1
Remote from	Rigid ceiling		100	90	AR2

Metal stud walls
including fire and safety partition walls and shaft walls with and without metal studs

Type of installation	Wall/ceiling type	Installation material	Minimum thickness [mm]	Fire resistance period [min]	Installation subframes / mounting frames
In	Metal stud wall with 1-layer cladding on both sides		70	60	ER1
	Metal stud wall with 1-layer cladding on both sides Installation with fillings	  	70	60	
	Metal stud wall with 2-layer cladding on both sides		94	120	
			94	90	ER1 or ER3
			100	120	
	Metal stud wall with 2-layer cladding on both sides Installation with fillings	  	100	90	
In	Metal stud wall underneath sliding ceiling connection		95	90	ER4
In	Shaft wall with 2-layer cladding on one side and with metal studs		90	90	ER1 or ER3
	Shaft wall with 2-layer cladding on one side and without metal studs		40	90	ER1 or ER3
Remote from	Metal stud wall		95	90	AR2
Remote from	Metal stud wall underneath rigid ceiling		95	90	AR2

Legend

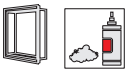
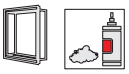
Installation material					
	Mortar		Clay plaster mortar		Fire batt system
	Installation subframe/mounting frame/ connecting frame		Wall building materials		
	Mineral wool		Fireproof foam		

The tables (as of May 2026) provide an overview only and do not replace the installation instructions, which can be found in the user manual.

FK90 fire damper

Series FK92

Wooden walls and wooden ceilings

Type of installation	Wall/ceiling type	Installation material	Minimum thickness [mm]	Fire resistance period [min]	Installation subframes / mounting frames
In	Rigid wooden wall		90 / 95	60 / 90	
			90 / 110	60 / 90	ER8
			90 / 110	60 / 90	ER8
	Rigid wooden wall with 1-layer cladding on both sides		124	90	ER8
In	Rigid wooden ceiling		100 / 130	60 / 90	
			100 / 130	60 / 90	ER8
			100 / 130	60 / 90	ER8
In	Wall with timber frame construction		85 / 110	60 / 90	
			85 / 110	60 / 90	ER8
In	Ceiling with wooden beam construction		100	90	
			100	90	ER8
In	Historical wooden beam ceiling		100	60	
In	Wall with timber frame construction with clay panel cladding		104 / 124	60 / 90	
			104 / 124	60 / 90	
			104 / 124	60 / 90	ER8

Ceilings with steel frames

Type of installation	Wall/ceiling type	Installation material	Minimum thickness [mm]	Fire resistance period [min]	Installation subframes / mounting frames
In	Ceiling construction with steel frame on both sides		222	90	ER8

Legend

Installation material							
	Mortar		Clay plaster mortar		Mineral wool		Fire batt system
	Installation subframe/mounting frame/ connecting frame		Wall building materials		Fireproof foam		

The tables (as of May 2026) provide an overview only and do not replace the installation instructions, which can be found in the user manual.



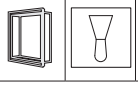
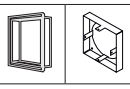
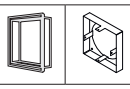
Installation overview

Rigid walls and ceilings

Type of installation	Wall/ceiling type	Installation material	Minimum thickness [mm]	Fire resistance period [min]	Installation subframes / mounting frames
In	Rigid wall		95	120	
			70 / 100	60 / 90	RE or RR
			100	90	
			100	90	
			70 / 100	60 / 90	RE or RR
			70 / 100	60 / 90	RE or RR
In	Non-load-bearing rigid wall underneath settlement joint		100	90	
Directly on	Rigid wall		100	90	AE
Remote from	Rigid wall		100	90	RV
Remote from	Rigid wall underneath rigid ceiling		100	90	RV
In	Rigid ceiling		100 / 115	90 / 120	
			100	90	RE or RR
			100	90	
			100	90	RE or RR
			70 / 100	60 / 90	RE or RR
Directly on	Rigid ceiling		100	90	AE
On	Rigid ceiling with concrete base		100	90	
			100	90	AE
Remote from	Rigid ceiling		100	90	RV

The tables (as of May 2026) provide an overview only and do not replace the installation instructions, which can be found in the user manual.

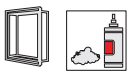
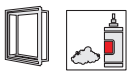
Metal stud walls
including fire and safety partition walls and shaft walls with and without metal studs

Type of installation	Wall/ceiling type	Installation material	Minimum thickness [mm]	Fire resistance period [min]	Installation subframes / mounting frames
In	Metal stud wall with 1-layer cladding on both sides		70	60	RE
	Metal stud wall with 2-layer cladding on both sides		94	120	
			94	120	
			94	90	RE
			100	90	
	Metal stud wall with 2-layer cladding on both sides without all-round profiles		94	90	RE or RR
In	Metal stud wall underneath sliding ceiling connection		95	90	ER6
Remote from	Metal stud wall		95	90	RV
Remote from	Metal stud wall underneath rigid ceiling		95	90	Connecting frame
On	Shaft wall with 2-layer cladding on one side and with metal studs		90	90	AE
	Shaft wall with 2-layer cladding on one side and without metal studs		40	90	AE

Legend

Installation material					
	Mortar		Clay plaster mortar		Fire batt system
	Installation subframe/mounting frame/ connecting frame		Wall building materials		
	Mineral wool		Fireproof foam		

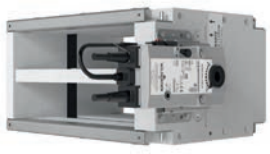
Wooden walls and wooden ceilings

Type of installation	Wall/ceiling type	Installation material	Minimum thickness [mm]	Fire resistance period [min]	Installation subframes / mounting frames
In	Rigid wooden wall		90 / 95	60 / 90	
			90 / 110	60 / 90	RH
			90 / 110	60 / 90	RH
	Rigid wooden wall with 1-layer cladding on both sides		124	90	RH
In	Rigid wooden ceiling		100 / 130	60 / 90	
			100 / 130	60 / 90	RH
			100 / 130	60 / 90	RH
In	Wall with timber frame construction		85 / 110	60 / 90	
			85 / 110	60 / 90	RH
In	Ceiling with wooden beam construction		100	90	
			100	90	RH
In	Historical wooden beam ceiling		100	60	
In	Wall with timber frame construction with clay panel cladding		104 / 124	60 / 90	
			104 / 124	60 / 90	
			104 / 124	60 / 90	RH

Ceilings with steel frames

Type of installation	Wall/ceiling type	Installation material	Minimum thickness [mm]	Fire resistance period [min]	Installation subframes / mounting frames
In	Ceiling construction with steel frame on both sides		222	90	RH

The tables (as of May 2026) provide an overview only and do not replace the installation instructions, which can be found in the user manual.



Installation overview

Rigid walls and ceilings

Type of installation	Wall/ceiling type	Installation material	Minimum thickness [mm]	Fire resistance period [min]	Installation subframes / mounting frames
In	Rigid wall		70 / 95	60 / 90	
			70 / 95	60 / 90	
			70 / 95	60 / 90	F1
Remote from	Rigid wall		100	90	DS
Remote from	Rigid wall underneath rigid ceiling		100	90	DS
Remote from and hanging horizontally under	Rigid ceiling		100	90	DS
In	Rigid ceiling		100	90	
			100	90	
			70 / 95	60 / 90	F1
On	Rigid ceiling with concrete base		100	90	
Remote from	Rigid ceiling		100	90	DS

Legend

Installation material					
	Mortar		Clay plaster mortar		Filling with gypsum filler / Fine clay plaster
	Installation subframe		Set of gaskets		Filling made of calcium magnesium silicate mats or insulation wool (Mineral wool)
	Mineral wool		Fireproof foam		

Metal stud walls
including fire and safety partition walls and shaft walls with and without metal studs

Type of installation	Wall/ceiling type	Installation material	Minimum thickness [mm]	Fire resistance period [min]	Installation subframes / mounting frames
In	Metal stud wall with 1-layer cladding on both sides		70	60	
			70	60	F1
	Metal stud wall with 2-layer cladding on both sides		94	90	
			94	90	
			94	90	F1
In	Metal stud wall with sliding ceiling connection		95	90	ER5
In	Shaft wall with 2-layer cladding on one side and with metal studs		90	90	
			90	90	F1
	Shaft wall with 2-layer cladding on one side and without metal studs		40	90	
			40	90	F1
Remote from	Metal stud wall		95	90	DS
Remote from	Metal stud wall underneath rigid ceiling		95	90	DS

Wooden walls and wooden ceilings

Type of installation	Wall/ceiling type	Installation material	Minimum thickness [mm]	Fire resistance period [min]	Installation subframes / mounting frames
In	Wooden stud wall construction with cladding made of clay board		104 / 124	60 / 90	
			104 / 124	60 / 90	
			104 / 124	60 / 90	

Legend

Installation material					
	Mortar		Clay plaster mortar		Filling with gypsum filler / Fine clay plaster
	Installation subframe		Set of gaskets		Filling made of calcium magnesium silicate mats or insulation wool (Mineral wool)

The tables (as of May 2026) provide an overview only and do not replace the installation instructions, which can be found in the user manual.

Wildeboer makes it easy

1. Wildeboer Connect



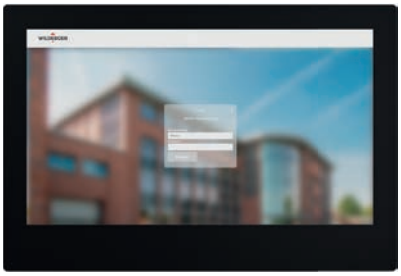
- High-performance configurator with customer-specific net prices
  - Quick, intuitive product configuration
  - Access to prices and unique version keys
  - Easy operating point calculations
  - Interface with Autodesk Revit and AutoCAD
  - Download of CAD data, data sheets, specification texts and further product documents
- Centralised project management
  - Easily create, filter and manage projects
  - Organise products flexibly and add custom information
  - Involve project stakeholders and manage access rights
  - Import projects and quickly export documents
- Transparent real-time order tracking
  - Detailed order information
  - Access to order documents
  - Access to shipment tracking

2. WiDim dimensioning software



- Functional, modern and intuitive dimensioning of Wildeboer products
- Conveniently collect operating point data, 3D product views, suitable accessories and current revision documents in a single project
- Project can be output in various formats
- A GAEB interface and interfaces with your CAD software ensure a seamless planning process

3. WildeboerNet communication system



- Easy planning and quick commissioning with intuitive operation
- Convenient control through intelligent networking of centralised KS2 and decentralised BS2 systems
- Greater planning reliability thanks to simple configuration options across different systems
- Flexible, scalable, modular and future-proof design – tailored to your needs

FK90 FIRE DAMPER



ER1

For simplified dry installation in metal stud walls with cladding on both sides and in shaft walls with and without metal studs



ER2

Insertion into rigid walls and ceilings; for 355 mm short length



ER3

For metal stud walls with cladding on both sides and shaft walls with and without metal studs; for 355 mm short length



ER4

For sliding ceiling connections in metal stud walls with cladding on both sides



ER8

For dry installation in wooden walls and wooden ceilings and in ceilings with steel frames



AR1

For mounting onto rigid walls and ceilings; for 346 mm short length



AR2

For connecting to the circular ventilation duct with fire resistance period remote from rigid walls and ceilings and metal stud walls with cladding on both sides

OPTION FK90

- Casing with internal and external epoxy resin powder coating for enhanced corrosion protection.
- Damper blade with metal cover made of galvanized steel.
- Damper blade with metal cover made of 1.4301 stainless steel.

Available separately Factory-mounted

FR90 FIRE DAMPER



RR

For simplified installation in rigid walls and ceilings and metal stud walls with cladding on both sides



RE

For simplified installation, including multiple installations, in rigid walls and ceilings and metal stud walls with cladding on both sides



ER6

For sliding ceiling connections in metal stud walls with cladding on both sides



RV

Installation remote from rigid walls and ceilings and metal stud walls with cladding on both sides, with circular ventilation ducts with fire-resistant cladding on all four sides



RH

For dry installation in wooden walls and wooden ceilings (RH100, RH150) and for installation in ceilings with steel frames (RH150)



AE

For mounting on rigid walls and ceilings and on walls with cladding on one side (shaft walls) and with and without metal studs



Connecting frame

Remote from rigid walls and ceilings and metal stud walls with cladding on both sides, with circular ventilation ducts with fire-resistant cladding

OPTION FR90

- Casing with internal and external epoxy resin powder coating for enhanced corrosion protection.
- Damper blade with metal cover made of galvanized steel.
- Damper blade with metal cover made of 1.4301 stainless steel.

Available separately Factory-mounted

FK90K FIRE DAMPER



ER5

For sliding ceiling connections in metal stud walls with cladding on both sides

No illustration available

DS

Set of gaskets for installation remote from rigid walls and ceilings and remote from metal stud walls with cladding on both sides



F1

Filling to seal against adjacent rigid walls and ceilings

OPTION FK90K

- Casing connection profiles and corner brackets with epoxy resin powder coating for enhanced corrosion protection.

Available separately

Factory-mounted

ACTUATORS & RELEASE MECHANISMS



EM-1/EM-2/RM-1

Explosion-protected
24–240V AC/DC actuator

- With ATEX certification for zones 1, 2, 21 and 22
- Electric spring return actuator
- Integrated OPEN/CLOSED position indicators via limit switches



PM220-2 / PM24-2

Explosion-protected 230V AC / 24V AC/ DC actuator

- With ATEX certification for zones 1, 2, 21 and 22
- Electric spring return actuator
- Integrated OPEN/CLOSED position indicators via limit switches



M220-9/M24-9

Actuator 230V AC / 24V AC/DC

- Electric spring return actuator
- Integrated OPEN/CLOSED position indicators via limit switches



M220-10/M24-10

Actuator 230V AC / 24V AC/DC

- Electric spring return actuator
- Integrated OPEN/CLOSED position indicators via limit switches



M220-11/M24-11

Actuator 230V AC / 24V AC/DC

- Electric spring return actuator
- Integrated OPEN/CLOSED position indicators via limit switches



Thermal-mechanical release mechanism, explosion-protected

Thermal-mechanical release mechanism, explosion-protected

- With ATEX certification for zones 1, 2, 21 and 22

OPTION

- Limit switch with explosion protection OPEN and/or CLOSED



Thermal-mechanical release mechanism

Standard thermal-mechanical release mechanism

OPTION

- With limit switch for OPEN and/or CLOSED position indication
- With additional remote release device operating on the closed-circuit principle
- With additional remote release device operating on the open-circuit principle

Planning a project and got some questions?

We're happy to advise you – with practical, solution-focused support.

YOUR CONTACTS

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Installing fire dampers.

Flexible. Simple.
Safe.

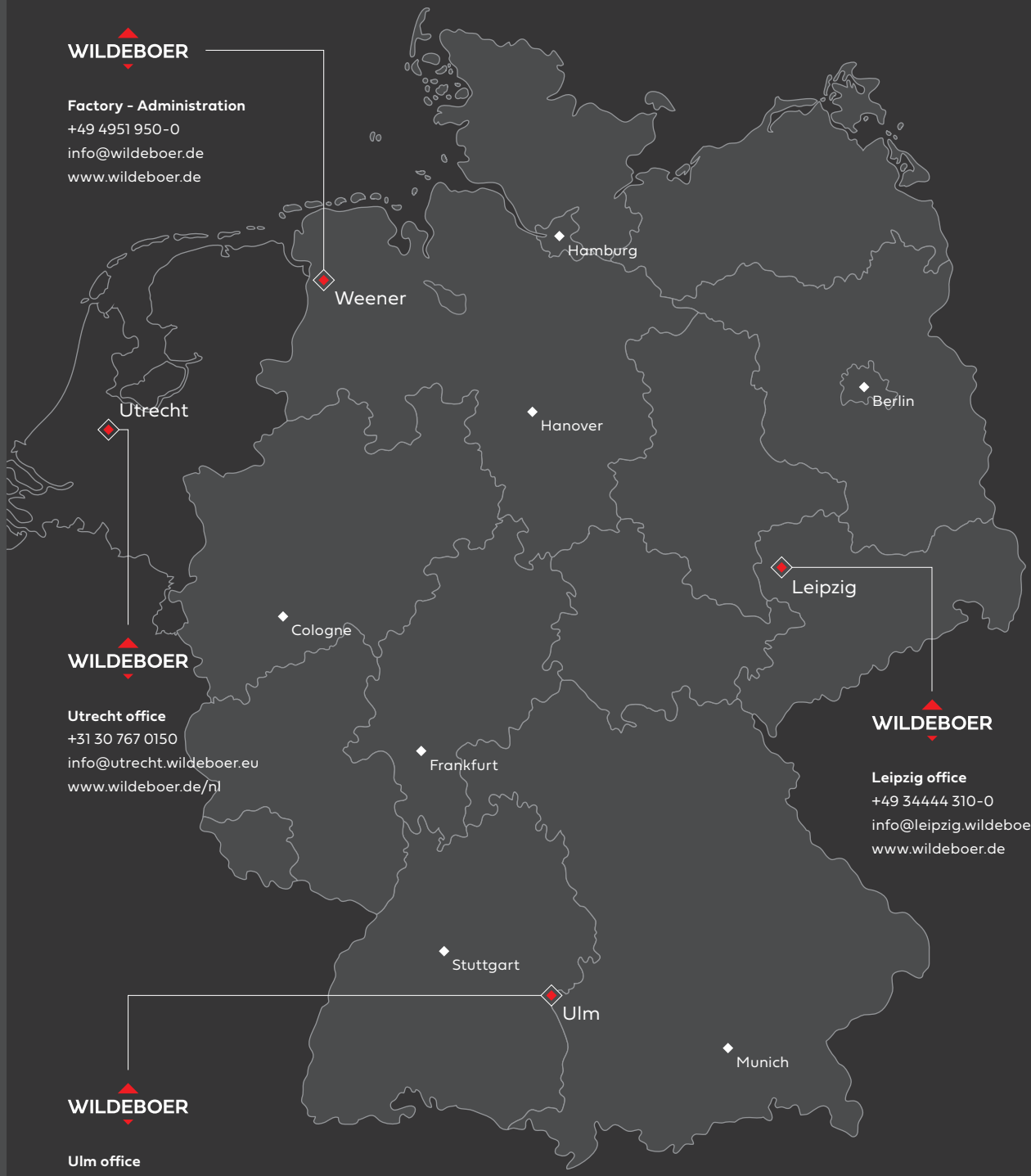


FIRE PROTECTION

Smart solutions
with or without an installation subframe.

Always there for you

Locations & contact



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