

NINZ[®]

FIREDOORS

Telescopic gates

"the ideal solution with minimal space requirements"



NINZ telescopic gates

FIREDOORS

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Features

Telescopic gates

WHAT DEFINES THEM?

REI120 telescopic fire rated gates are available as horizontal sliding doors. The field of use includes large openings and/or special usage conditions in customer-specified dimensions. Gates are supplied with leaves made of flush insulated sheet metal panes, sliding guides, protective carter, counterweights, thermal fuses or electromagnets and finished in a base coat or RAL colors, plus other accessories as required for correct product functioning.

Standards

The gates are certified in accordance with UNI 9723 standards in compliance with the current ministerial provisions in force.

Opening direction

Opening direction needs to be indicated while placing the order.

left opening direction – mono-lateral telescopic gates



Mono-lateral telescopic gates available in class:



right opening direction – mono-lateral telescopic gates



Bilateral telescopic gates



Bilateral telescopic gates available in class:



NOTE

Fire rated gates require careful design which reflects their dimensions and special functions. Every installation site should be measured and checked for vertical alignment of the walls and gradients of the flooring. Particular care must be taken to check for protrusions or blockages that might hinder the operation or free movement of the gates. Given the considerable weight of gates, the bearing capacity of the walls and crossbeams involved should be checked for the mounting of top guide tracks and overlapping labyrinths.

ATTENTION

Fire compartmentalization elements should always be used properly. They are only designed for installation in spaces and constructions that are vertically aligned and flush. Compartmentalization for interiors is for areas that are not subject to strong air currents. Installation to be executed by specialized technicians only. For special applications consult with our technical office. The holding system for the gate is chosen by the customer to conform with their own worksite needs and the anti-fire design (thermal fuse or electromagnet).

REI 120 MONOLATERAL VERSION WITH TWO LEAVES

In conformity with UNI 9723 for two leaves, the telescopic mono-lateral gates series has the following characteristics:

Installation

On weight-bearing masonry walls or ceilings.

Gates leaves

Made of continuous panels of hollow-core sheet metal insulated with appropriate materials. Assembly involves screwing the structure to pre-prepared horizontal profiles. Leaf thickness 80 mm.

Top guide track

For horizontal sliding, made of press-folded steel with pre-drilled holes for attachment using plugs (not included). Overhead sliding on low friction carriages. The extension of the floor-mounted guide track beyond the opening ensures the perpendicularity of the leaf. The top guide track is covered by a protection carter made of press-folded sheet metal.

Overlapping labyrinths

Made of press-folded steel.

Counterweight

For adjustable closure and protected by press-folded sheet metal carters, with counterstrike inset and shimming inset.

Door handles

Recessed on both sides of the first leaf.

Sealing

Thermo-expanding on all overlapping labyrinths and underneath the leaf.

Identification plate

Marking with reference information that is applied directly to the handle.

Finishing

With a base coat thermoset in a 160 degree C furnace, light turquoise pastel color (similar to NCS4020-B50G).

Packaging

Modules on disposable metal container.

Wall opening dimensions

On request as shown in the table to the side (smaller and larger sizes on request).

Operation mode

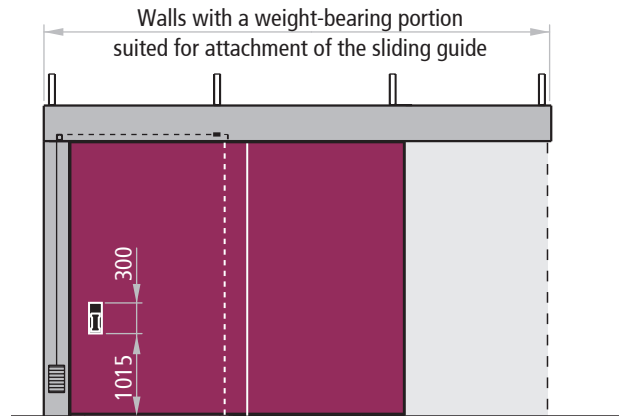
Of the gate series with thermal fuse: the gate can stand still at any position. The counterweight remains hooked to the thermal fuse and only closes the gate when the fuse fails.

Weight

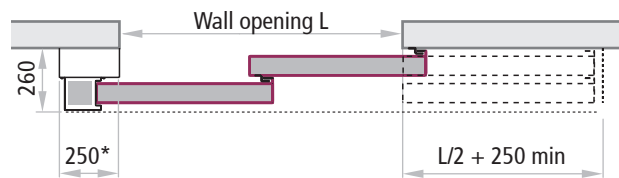
For the telescopic gates, approx. 50 kg/m² of wall opening

NOTE

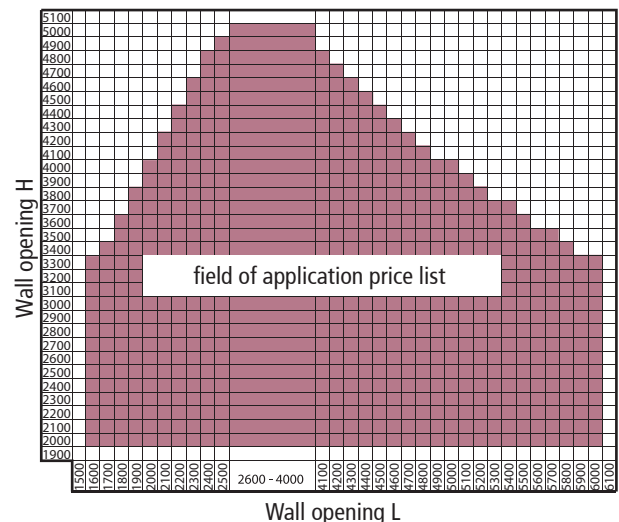
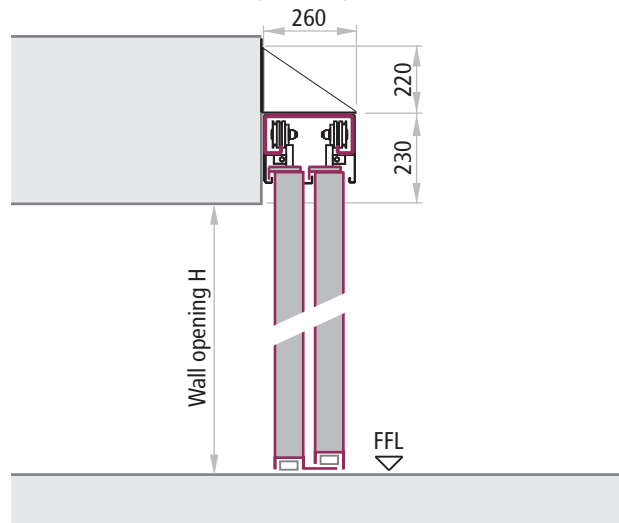
Additional accessories are usually dependent on the size dimensions of the gates



NB: Guide track gradient of 2 mm/ml



*Variable dimensions for larger-sized gates



Features

Telescopic gates



REI 120 BILATERAL VERSION WITH FOUR LEAVES

Conforms with UNI 9723 for four leaves, the telescopic bilateral gates series has the following features:

Installation

On weight-bearing masonry walls or ceilings.

Gate leaves

Four leaves made of continuous modules of hollow-core sheet metal panels insulated with the appropriate materials. Assembly involves screwing the structure to pre-prepared horizontal hollow metal profile. Leaf thickness 80 mm.

Top guide track

Double-guide for horizontal sliding made of press-folded steel with pre-drilled holes for attachment using plugs (not included). Overhead sliding on low friction carriages. The extension of the floor-mounted guide track beyond the opening ensures the perpendicularity of the leaves. The top guide track is covered by a protection carter made of press-folded sheet metal.

Overlapping labyrinths

Made of press-folded sheet metal.

Counterweights

For adjustable closure and protected by press-folded sheet metal carters, with for the counterstrike and shimming insets.

Door handles

Recessed on both sides of the first two leaves.

Sealing

Thermo-expanding on all overlapping labyrinths and underneath the leaves.

Identification plate

Marking with reference information that is applied directly to one of the handles.

Finishing

With a base coat thermoset in a 160 degree C furnace, light turquoise pastel color (similar to NCS4020-B50G).

Packaging

Modules on disposable metal container.

Wall opening dimensions

On request as shown in the table to the side (smaller and larger measures available on request).

Operation mode

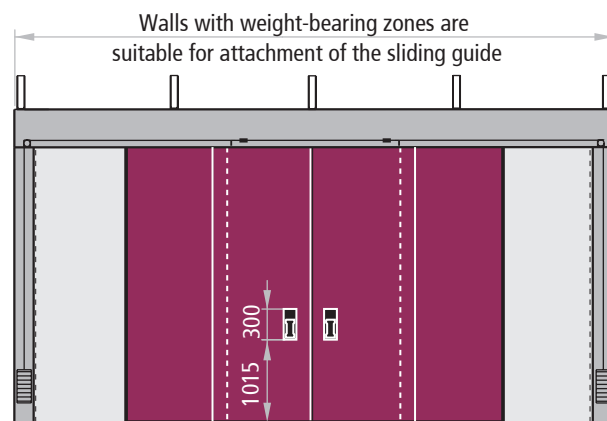
Of the gate series with thermal fuse: the gate can stand still at any position. The counterweight remains hooked to the thermal fuse and only closes the gate when the fuse fails.

Weight

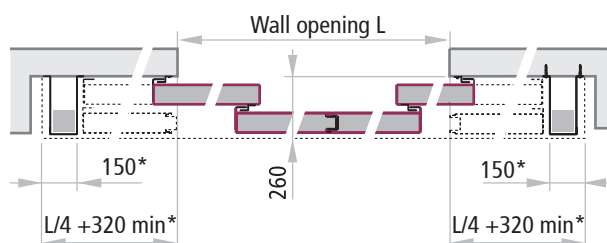
For the telescopic gates, approx. 50 kg/m² of wall opening

NOTE

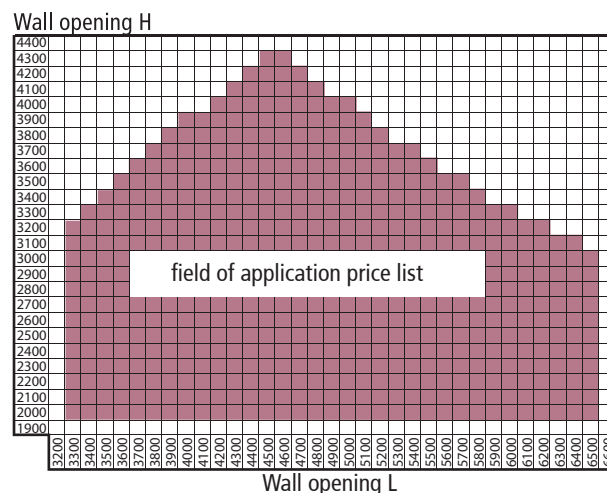
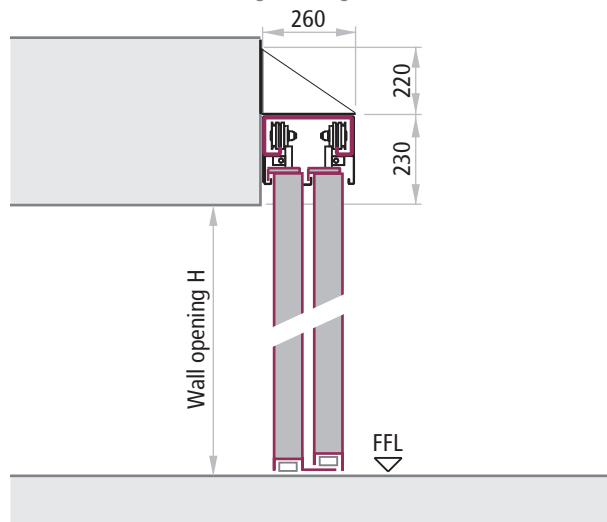
Additional accessories are usually dependent on the size dimensions of the gates



NB: Guide track gradient of 2 mm/ml



*Variable dimensions for larger-sized gates



Operation mode

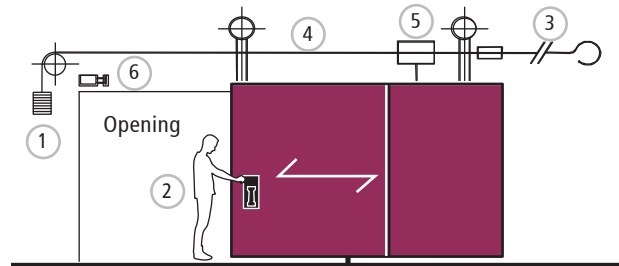
Telescopic gates

OPERATION MODE OF TELESCOPIC FIRE GATES

The selection of the holding system should reflect the customer's worksite needs and the anti-fire project.

Operation mode of gates equipped with thermal fuse:

The counterweight (1) does not load the gate and the operator (2) manually opens and closes the gates, which remains in the position it is left in. When the thermal fuse (3) is subjected to temperatures greater than 70° C, it breaks and causes the cable (4) to be released, so that the counterweight drags the gates to the closed position. The feed speed brake (5) prevents the gates from accelerating during closure. The feed-in impact absorber (6) softens the final feed-in impact of the closure.

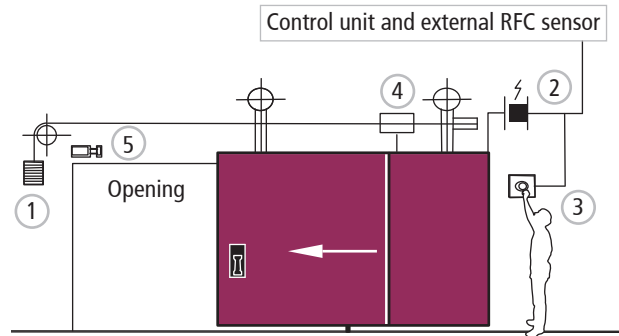


NOTE

The thermal fuse is only triggered when the temperature in the immediate vicinity rises above 70° C, and it does not respond to smoke. Its application, therefore, is not advisable when the gates are located outside the compartmentalization space and when a reaction to cold smoke is required.

Operation mode of gates with electromagnet:

The counterweight (1) continuously loads the gate. The gate usually remains open, held in place by the electromagnet (2). The counterweight closes the gate whenever the electromagnet lacks impulse current from the control unit or when the release button (3) is pressed. The feed speed brake (4) prevents the gate from accelerating during closure. The feed-in impact absorber (5) softens the final feed-in impact of the closure. The electromagnet must be connected with a power control unit and the related external smoke and heat detectors.

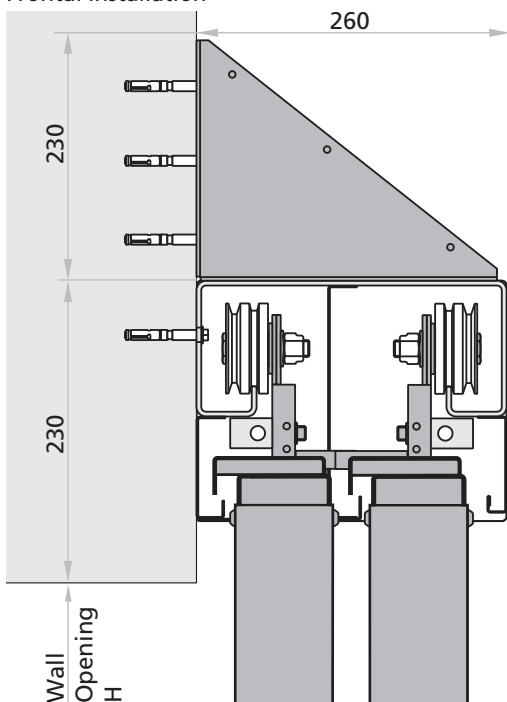


NOTE

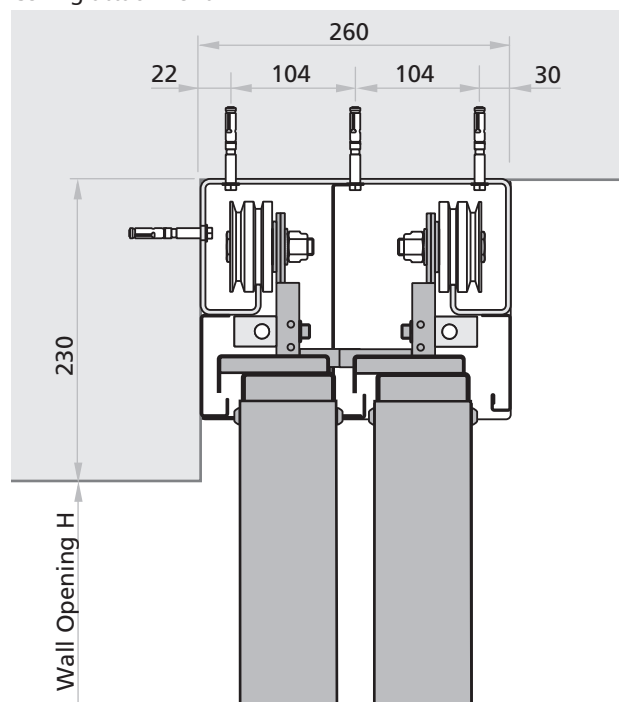
The gate closes on impulse from a control unit controlled by an external RFC detector, thus permitting automatic closure at temperatures lower than 70° C as well in the presence of cold smoke. This means that the gate can be installed in any position, even outside the compartmentalization space.

INSTALLATION

Frontal installation



Ceiling attachment



PAINTING

With ecologically formulated anti-corrosive epoxide primer. Minimum resistance to salt fog exposure: 300 hours (A.S.T.M. B - 117 - 61). Basic anti-corrosion coating: Light turquoise pastel. Optional: finishing with satin topcoats from the selection of furnace polymerized RAL colors.

Group 01:

Gates color: light turquoise pastel (similar to NCS4020B50G)



Group 02 (Basic anti-corrosion coating + satin topcoat finishing):

RAL 1001	RAL 1013	RAL 1015	RAL 3000	RAL 3003	RAL 3020	RAL 5010	RAL 5012
RAL 5015	RAL 5024	RAL 6000	RAL 6005	RAL 7001	RAL 7004	RAL 7011	RAL 7016
RAL 7024	RAL 7030	RAL 7032	RAL 7035	RAL 7037	RAL 7038	RAL 7040	RAL 7042
RAL 7047	RAL 8011	RAL 8017	RAL 8019	RAL 9001	RAL 9002	RAL 9005	RAL 9010
RAL 9011	RAL 9016	RAL 9018					



Group 03 (Basic anti-corrosion coating + satin topcoat finishing):

RAL 1004	RAL 1005	RAL 1006	RAL 1007	RAL 9006*
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*Pre-approval of the sample is required.

Group 04 (Basic anti-corrosion coating + satin topcoat finishing):

RAL 1003	RAL 1012	RAL 1016	RAL 1021	RAL 1023	RAL 5002
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Group 05 (Basic anti-corrosion coating only):

Basic anti-corrosion coating is available for all colors listed in group 02. In general, all RAL tints are useable except for: RAL 1018, RAL 5005 and RAL 9007

NOTE
Due to artifacts of the printing process, the colors depicted here may not correspond exactly to the colors of actual doors. Please see the RAL or NCS samples.

Cleaning

Water and neutral soap are recommended for the regular cleaning of our products. Do not use common cleaning products (see detergents) and/or other solvents. We shall not be held responsible for any problems that arise if these guidelines are not respected.

Re-painting

- For re-painting, use the following procedure:
- sand and carefully wipe away any dust from the surfaces
 - apply a base layer of opaque 2-component epoxide we recommend EPOX product Nr. 5203 beige 0059 made by ALCEA in Milan
 - repaint the surfaces with your choice of lacquers or paints.

Retouching

On request, Ninz also provides touch-up paint (nitro/synthetic) in 1,00 kg cans in the necessary RAL tint.

Protection

Since the gates are designed for internal usage, they should always be protected from atmospheric agents and direct sunlight.

Exterior uses require paints that are specially designed for this type of use (on request).

ATTENTION

- External installation of gates require various measures for preventing product degradation, such as:
1. The gates should always be protected from bad weather. Permanent damage may result if water seeps inside the door leaf. Provide canopies or roofing to protect newly installed and existing products.
 2. Avoid darker colors for gates which will be exposed to direct sunlight. Sheet metal can heat up and cause warping of the door leaf which could compromise the functionality of the door itself.

Mandatory accessories

Telescopic gates

PULLEY TACKLES FOR SELF-CLOSURE

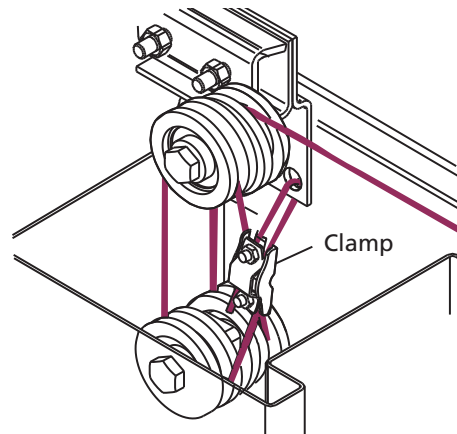
Pulley tackles serve to ensure the full self-closure of telescopic gates which are wider than they are tall.

Maximum width WITHOUT TACKLES: $(H-800) \times 2$

Normal pulley tackles

2 pulleys and standard counterweight box:

- for gates wider than $(\text{height } H - 800) \times 2$ and shorter than $(\text{height } H - 800) \times 4$
- minimum space required on rebate side 250 mm
- for geared counterweight: required space on the opening side $L + 400$ mm

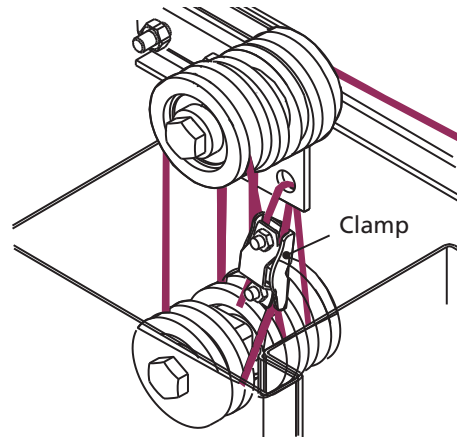


Normal/special pulley tackles

Special pulley tackles

2 pulleys and augmented counterweight box:

- for gates wider than $(\text{height } H - 800) \times 4$ and shorter than $(\text{height } H - 1150) \times 6$
- minimum space required on rebate side 350 mm
- for geared counterweight: required space on the opening side $L + 500$ mm



R pulley tackles

R pulley tackles

3 pulleys and larger counterweight box:

- for gates wider than $(\text{height } H - 1150) \times 6$ and shorter than $L=7000$ mm
- minimum space required on rebate side 350 mm
- for geared counterweight: required space on the opening side $L + 500$ mm

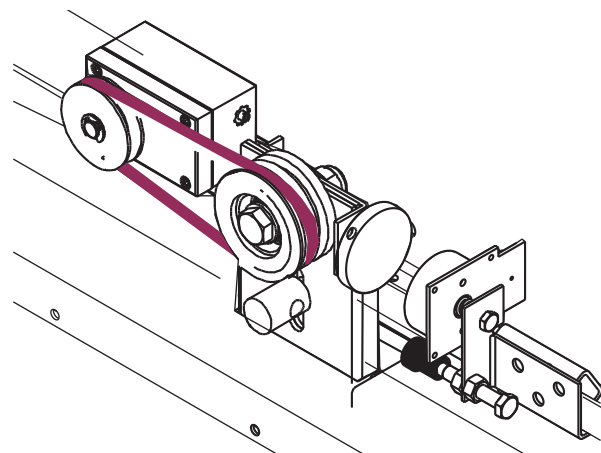
VT - VISCOTROLER[®] ACCIDENT PREVENTION DEVICE

Gates should always be equipped with an automatic device that controls the feed speed of the door during automatic closing.

After the critical moment when automated re-closure has been initiated, door speed increases progressively in proportion to opening time and door weight. During emergency situations, the energy that develops could cause serious injury/damage to people or objects within its range of motion. The hydraulic V.T. VISCOTROLLER[®] rotor makes it possible to set a constant closing speed in the range of 0.05 to 0,25 m/sec.

ATTENTION

For purposes of accident prevention, gates should always be equipped with a feed-in brake to regulate closing speed. Customers who choose not to include the feed-in brake assume full responsibility for possible consequences.



Mandatory and optional accessories

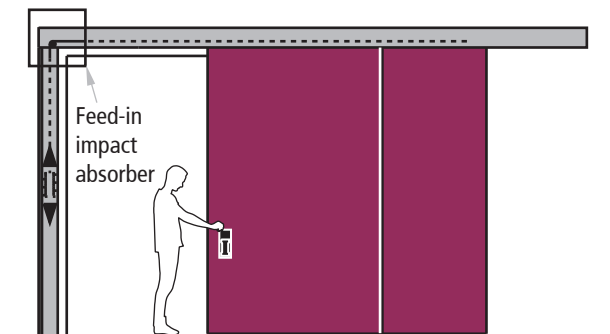
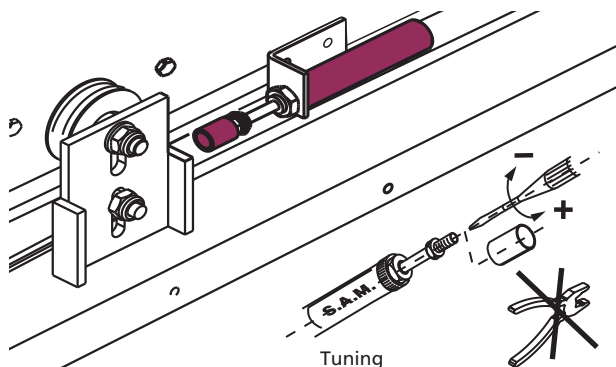
Telescopic gates



TELESCOPIC gates

FEED-IN IMPACT ABSORBER

Mandatory accessory for one- and two-leaved telescopic gates. The compression energy on the shaft is absorbed by slowing the flow of a fluid by means of an adjustable limiter valve. The shock absorber of the shaft is re-armed when the gates is re-opened.

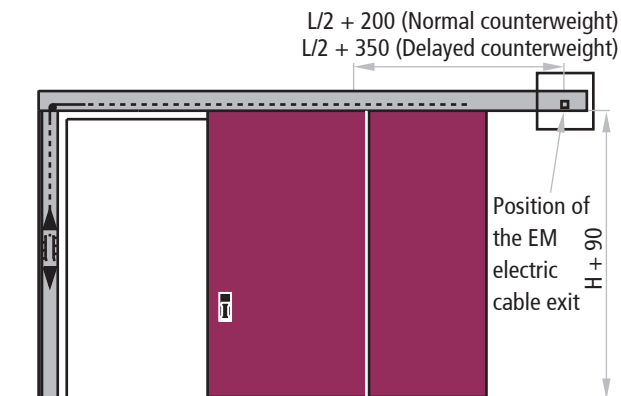
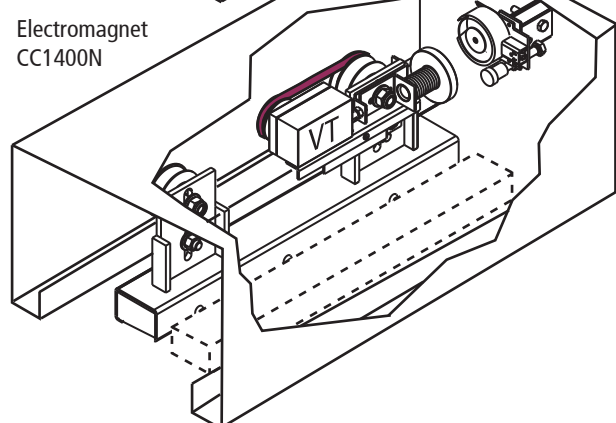
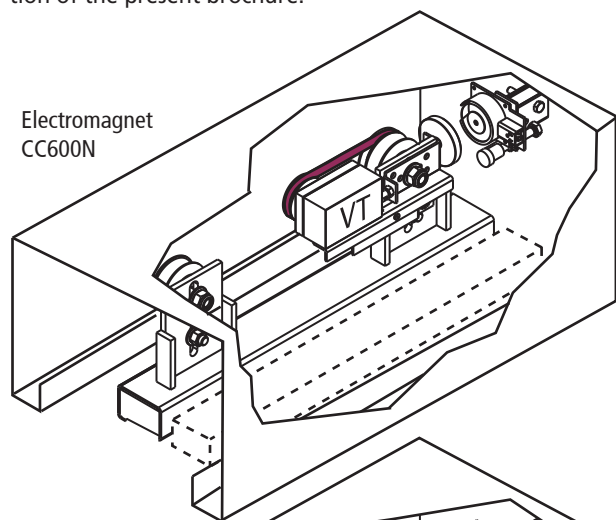


ATTENTION: be careful not to damage the impact absorber shaft

ELECTROMAGNETS

Gates operation mode with electromagnets (on request): the gate is usually left open. The counterweight is always hooked to the leaf and closure occurs whenever the electric current to the electromagnet is interrupted.

For smoke/heat detection systems, control unit and power supply, see the dedicated page in the accessories doors section of the present brochure.



Technical data for the CC600N electromagnet per leaf for up to 12 m² of wall opening

primary power supply	24 V DC
voltage tolerance	± 10%
nominal current	125 mA
nominal power	3 W
insertion duration	100%
withstand force	approx. 61 Kg.
operational temperature	0°C ÷ +50°C
operational temperature at 20°C	45°C
magnetic residue	null

Technical data for the CC1400N electromagnet per leaf for more than 12 m² of wall opening

primary power supply	24 V DC
voltage tolerance	± 10%
nominal current	200 mA
nominal power	5 W
insertion duration	100%
withstand force	approx. 143 Kg.
operational temperature	0°C ÷ +50°C
operational temperature at 20°C	60°C
magnetic residue	null

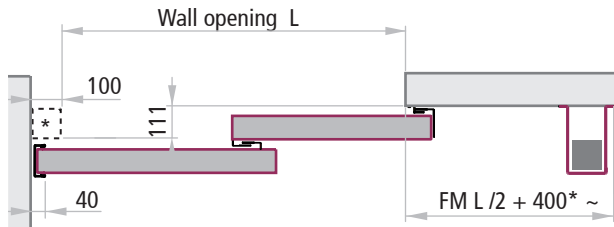
EC marked in conformity with STANDARD EN 1155

Optional accessories

Telescopic gates

GEARED REI 120 MONOLATERAL TELESCOPIC GATES

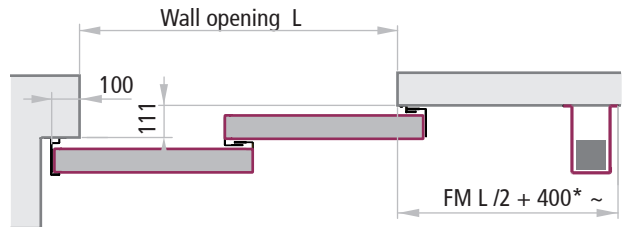
On request due to space limitations on the rebate side, sliding gates may also be supplied with geared and/or out-of-alignment counterweights.



Counterweight version, opposite side with normal rebate

*After the gate has been installed, building of the additional apron is the buyer's responsibility and duty

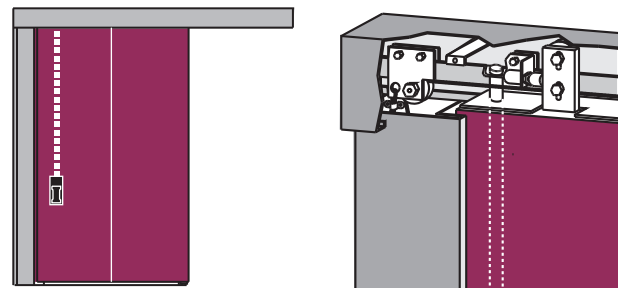
A 100 mm overlap of the leaf must be ensured regardless. While ordering, please specify whether the rebate is NORMAL or SPECIAL.



Counterweight version, opposite side with special rebate

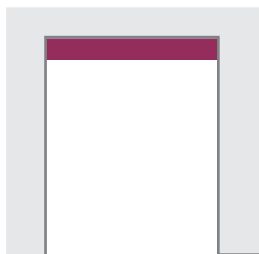
INTERNAL NIGHT LOCK

On request, telescopic gates may be equipped with night locks with cylinders to pass. Utilization of this type of mechanism with gates should be indicated while ordering.



CROSS BEAMS

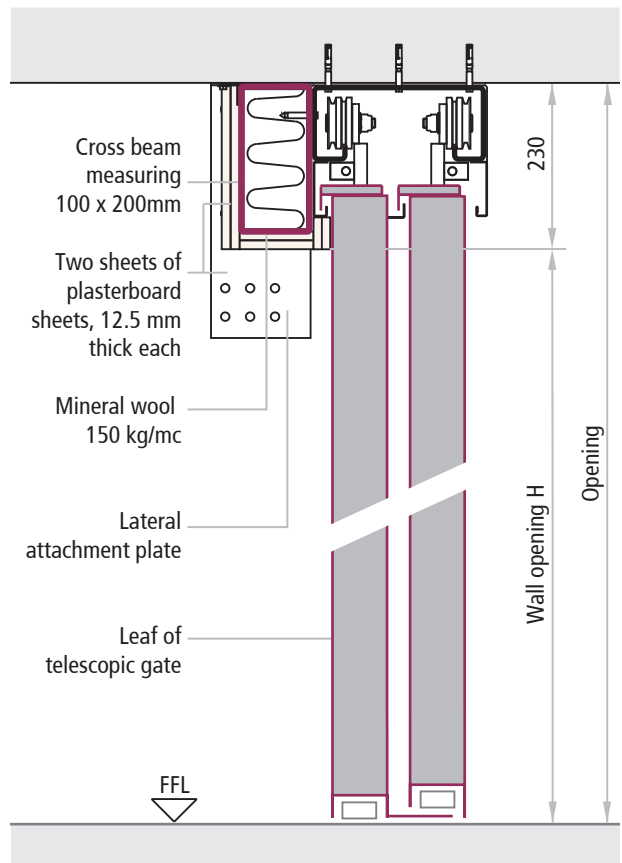
Cross beam made of 100 x 200 mm insulated hollow metal profile for REI 120 one- or two-leaved telescopic gates. Up to L = 2500 ready for lateral attachment, plus additional ceiling attachment for greater widths. Covering/finishing of the beam with 2 sheets of 12.5 mm plasterboard is the customer's responsibility.



Cross beams

GENERAL NOTES

All rights reserved.
No reproduction (partial or total) without prior authorization by Ninz. Ninz reserves the right to modify the product.
Installation should be executed by qualified technicians.
Modifications may only be made as indicated in the installation instructions.
Original NINZ replacement parts must be used for all repair work.



Door-holding systems

For fire doors and gates



C2 MONO-ZONE MICROPROCESSOR

Certified in accordance with EN 1154-2 and EN 1154-4 standards.

The processor was designed and built in conformity with UNI EN 1154 standards, which regulate processors for fire alarms and related accessories which each must conform with EN1154 standards.

Technical data

model	52002
primary power supply	230 V AC, 100 mA, 50-60Hz
auxiliary power supply	2 batteries, 12 V DC/1,1 ÷ 1,3 Ah
minimum output current	264 mA
maximum output current	424 mA
buffer battery charger output	24 V DC (27.6 V DC)
protection rating	IP30
operational temperature	-5°C ÷ +40°C
operational zones	single zone (mono-zone)
acoustic alarm	internal buzzer
"low battery" signal	intermittent internal buzzer
EC certification	0051-CPD-0264
conformity with standards	EN 1154-2 +A1:2006 EN 1154-4:1997 + A1:2002 + A1:2006

ATTENTION

According to standard EN 1154-4, it is obligatory for the mono-zone processor to be equipped with:

- Nr. 1 heat/smoke detector RFC certif. EN 1154-7
- Nr. 1 pair of buffer batteries
- Nr. 1 external electronic siren certif. EN 1154-3
- Nr. 1 alarm activation button certif. EN 1154/11

RFC HEAT AND SMOKE DETECTOR

Certified in accordance with UNI EN 1154-5 and EN 1154-7 standards.

RFC heat and smoke detector characterized by white ABS casing. Optical/thermic operation with intervention temperature to be set between 54 and 65°C. To ensure proper functioning, the detectors must be subjected to regular 6-month maintenance checks. Please note that it is inadvisable to position the sensor where strong air currents are present.

Technical data

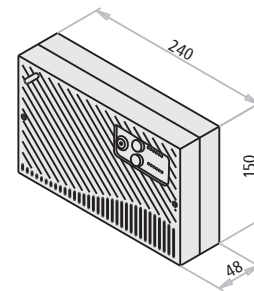
operational voltage	10 ÷ 30 V DC, typically 24 V DC
consumption at rest, at 24 V DC	70 µA
absorption of alarm at 24 V DC	50 mA

BUFFER BATTERIES

Pair of rechargeable buffer batteries, 12 V DC/1.2 Ah

NOTE

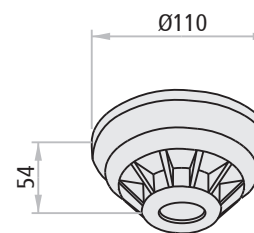
All DOOR-HOLDING SYSTEMS are supplied in separate packaging and require on-site assembly.



This is a control unit which administers the door-holding electromagnets for fire doors, where standards require consideration of every possible and imponderable event that could happen during normal functioning. The following, therefore, are subject to constant monitoring: all exits towards the smoke and heat detectors, the alarm and reset buttons, the external siren and the charge of the two batteries. The microprocessor itself, which functions as the brain of the system, is constantly monitored at regular intervals by a specific system routine that checks for proper functioning of the operational software. Any hitches, breakdowns or malfunctions are signaled by one of the ten LED diodes on the front panel, and the internal buzzer provides an additional acoustic signal for specific cases. Alarm or breakdown situations can then be reset at three different levels depending on the seriousness of the event: by a button located near the microprocessor, by a first button on the front of the microprocessor unit and by a second button on the same panel that requires key selector activation (key in possession of the safety manager). A fourth reset level is then supplied for the circuit only (operation executable by authorized technical personnel only).

MANAGES

- max. Nr. 5 RFC heat/smoke detectors
- max. Nr. 5 alarm activation buttons
- max. Nr. 2 electronic sirens
- Nr. 4 EM or EMP electromagnets
- Nr. 2 buffer batteries



Technical data

operational temperature	-40°C ÷ +60°C
conformity with	EN 1154-5, EN 1154-7 standards



ELECTRONIC SIREN

Includes a volume control function for installation in internal and external environments. The connection is made using double clamps (6) for branching.

Technical data

power supply	9 ÷ 28 V DC
absorption by alarm at 12 V DC	8 mA
absorption by alarm at 24 V DC	16 mA
protection rating	IP65
operational temperature	-25°C ÷ +70°C
conformity with standard	EN 1154-3



With 28 or 32 selectable tones and a second tone for two-phase alarms.

Dimensions:
Ø 91 x 91mm.

ALARM ACTIVATION BUTTON

Pressure on the plastic front plate activates the electrical contact. Re-arming of the contact is executed manually using a key (provided).

Technical data

power supply	max. 30 V DC
protection rating	IP41
operational temperature	max. +65°C
internal exchange contact	n.o./n.c.
conformity with standard	EN 1154-11



In red color ABS with a weight of 110 gr.

Dimensions:
99 x 95 x 43mm.



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