Features
Vertically sliding gates

WHAT DEFINES THEM?

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

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

ATTENTION
Vertically sliding gates are supplied as a single pre-assembled unit, this must be taken into consideration for purposes of handling.
For special applications consult the Ninz technical department.
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).

NOTE
Fire rated gates require careful design because of 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.

Vertically sliding gates lift closure is available in classes:

REI 120

Features
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REI 120 VERSION

The vertically sliding gate series has the following features:

Door leaf
Single unit made of continuous modules of hollow-core sheet metal panels insulated with appropriate materials. Leaf thickness 80 mm.

Guide track
Sliding on lateral guide tracks and flame-resistant anti-friction anti-skid plates.

Overlapping labyrinths
Made of press-folded sheet metal.

Counterweights
Counterweights with adjustable balancing

Door handles
Recessed on both sides.

Sealing
Thermo-expanding on all overlapping labyrinths.

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

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

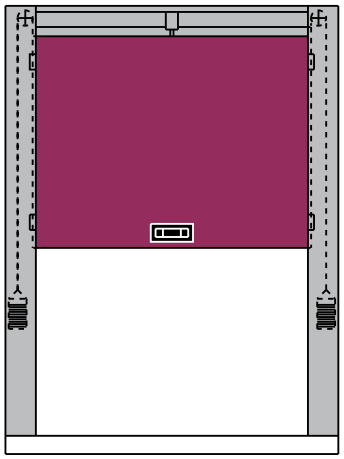
Wall opening dimensions
Min. 300 X 500 max. 3000 X 3000
Larger sizes on request.

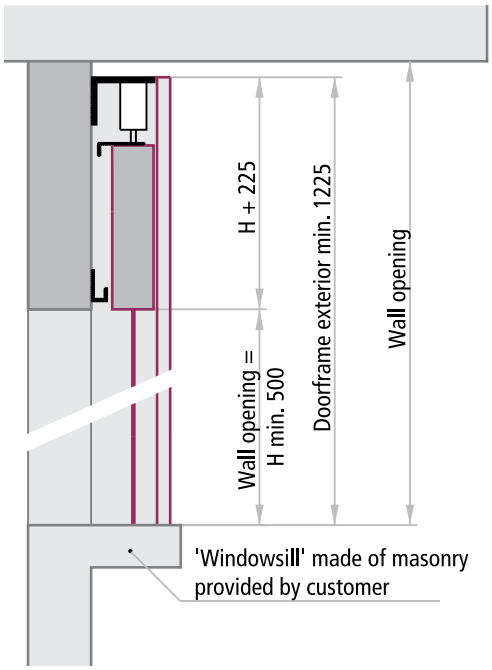
Normal operating mode
The gate remains in the open position, held by a thermal fuse located at the top on the labyrinth distancer. The gate can be closed manually. In case of fire the gate closes as soon as the thermal fuse fails.

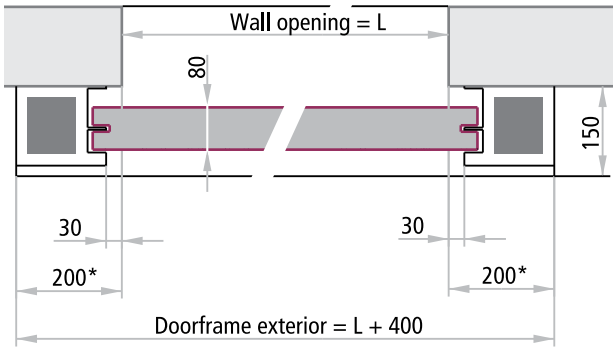
Packaging
On disposable metal container.

Weight
REI 120 vertical lift - approx. 50 kg/m² wall opening, excluding guides and counterweights.

NOTE
Additional accessories are usually dependent on the dimensions of the gate







*Variable dimensions for larger-sized gates

Optional accessories
Vertically sliding gates

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.

ELECTROMAGNETS

Gates operating 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.

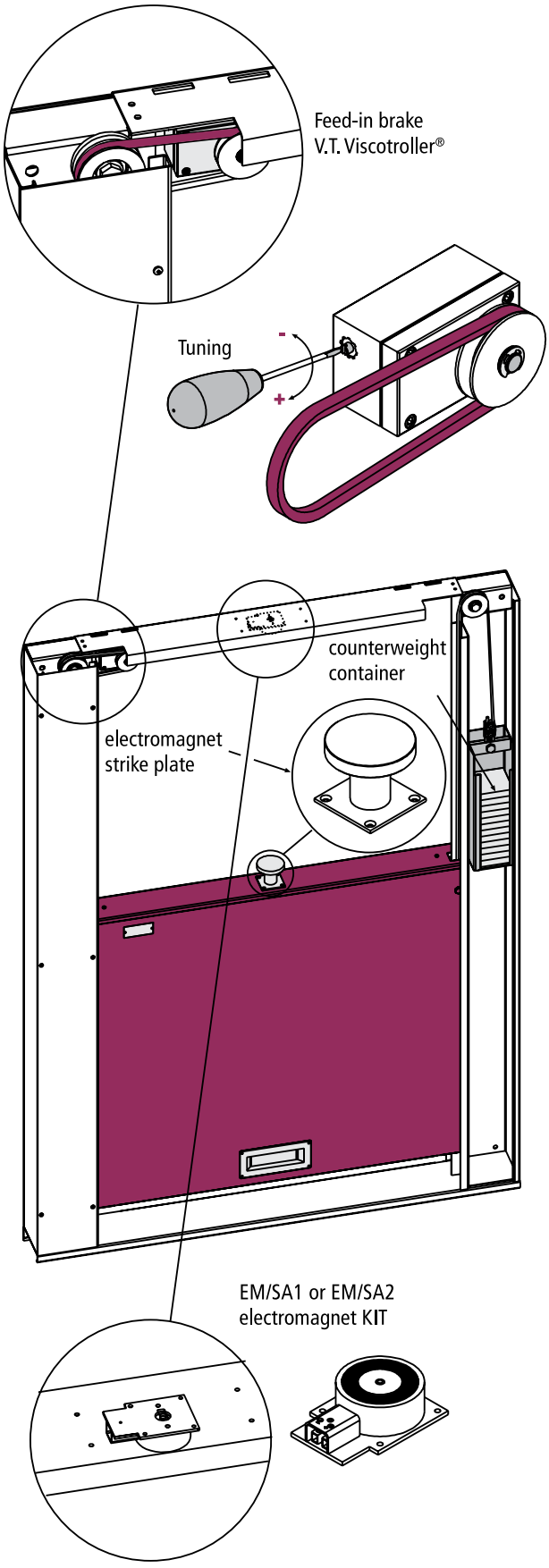
Technical data for the EM/SA1 electromagnet for leaf up to 1.0 m² of wall opening

power supply	24 V DC ± 15%
nominal power	2,1 W
nominal current	89 mA
insertion duration	100%
force	800 N at 24 V
operational temperature	-5°C ÷ +35°C
magnetic residue	< 1 N

Technical data for the EM/SA2 electromagnet for leaf for more than 1,0 m² of wall opening

power supply	24 V DC ± 15%
nominal power	1,5 W
nominal current	62,5 mA
insertion duration	100%
force	1372 N at 24 V
operational temperature	-5°C ÷ +35°C
current of the magnetic residue	> 2,4 V DC
protection rating	IP65

NOTE
CE marked in conformity with STANDARD EN 1155.



Optional accessories
Vertically sliding gates

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.

Group 01 (Basic anti-corrosion coating only):

Light turquoise pastel (similar to NCS4020-B50G)	RAL 7035

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					

In general, all RAL colours are useable except for: RAL 1018 and RAL 5005

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

RAL 1004	RAL 1005	RAL 1006	RAL 1007	RAL 9006*	RAL 9007*

*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

PRECAUTIONS

Installation
In case of exterior installation of the gates, in addition to use special paints which are especially designed for this kind of application (on request), in order to avoid any product degradation, it is important to:
- protect the gates from bad weather and water seeping in;
- avoid direct sun rays and the subsequent warping of the gate leaf, especially in case of darker colors.

For more details, refer to the "Notices" section of this brochure.

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.

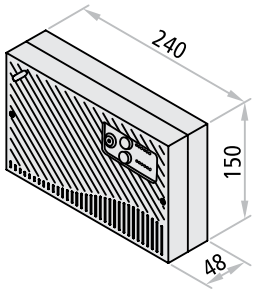
Re-painting
For re-painting, use the following procedure:
- sand and carefully wipe away any dust from the surfaces
- apply a base coat of semi-gloss acrylic (we recommend the product ACRILFIN SL series 567 made by ELCROM - Italy + 20% by weight aliphatic hardener series E872003)
- repaint the surfaces 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 colour.

Door-holding systems
For fire doors and gates

C2 MONO-ZONE CENTRAL UNIT

Certified in accordance with EN 54-2 and EN 54-4 standards. The central unit designed and built in conformity with UNI EN 54 standards, which regulate unit for fire alarms and related accessories which each must conform with EN 54 standards.
To use for the management of the door-holding electro-magnets for fire-rated closures. Control all outputs towards the heat and smoke detectors, the alarm activation/reset buttons, the external siren and the charge of buffer batteries. Any breakdown or manlfunction is signaled by LED on the front panel, and by internal acoustic signal for specific cases. There are three ways to reset alarm or breakdown signal: by a button located near the central unit, or by two other buttons of the front panel, one of which can be activated with key only.



Technical data

model	52002
primary power supply	230V AC, 100mA, 50-60Hz
auxiliary power supply	2 batteries, 12V DC - 1,1 ÷ 1,3 Ah
„I" current	min. 264mA ÷ max. 424mA
maximum output current battery	300mA
buffer battery charger output	24V DC (27.6V 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
CE certification	0051-CPD-0264
conformity with standards	EN 54-2 +A1:2006 EN 54-4:1997 + A1:2002 + A1:2006

ATTENTION
According to standard EN 54-4, it is obligatory for the mono-zone central unit to be equipped with:
- Nr. 1 heat/smoke detector RFC certif. EN 54-7
- Nr. 1 pair of buffer batteries
- Nr. 1 external electronic siren certif. EN 54-3
- Nr. 1 alarm activation button certif. EN 54/11
- Nr. 1 fire/failure alarm deactivation button

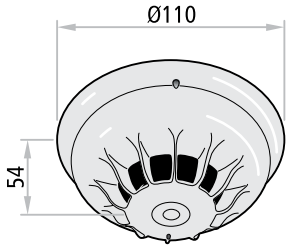
MANAGES
- max. Nr. 5 RFC heat/smoke detectors
- max. Nr. 5 alarm activation buttons
- max. Nr. 2 electronic sirens
- Nr. 4 EM or EMP or EMr electromagnets
- Nr. 2 buffer batteries

BUFFER BATTERIES

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

Door-holding systems
For fire doors and gates

RFC HEAT AND SMOKE DETECTOR

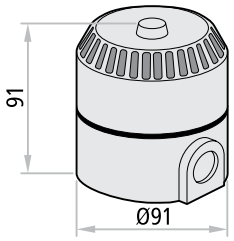


Certified in accordance with EN 54-7 standard.
RFC heat and smoke detector characterized by white ABS casing. Optical/thermic operation with intervention temperature to be set between 54 and 65°C. To ensure proper functioning, the detectors must be subjected to regular 6-month maintenance checks. Please note that it is inadvisable to position the sensor where strong air currents are present.

Technical data

operational voltage	11 ÷ 33V DC, typically 24V DC
consumption at rest, at 24V DC	67µA
absorption of alarm at 24V DC	45mA
operational temperature	-20°C ÷ +70°C
conformity with standards	EN 54-7

ELECTRONIC SIREN

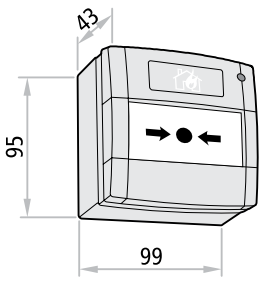


In red color ABS, includes a volume control function for installation in internal and external environments. The connection is made using double clamps (6) for branching. With 28 or 32 selectable tones and a second tone for two-phase alarms.

Technical data

power supply	9 ÷ 28V DC
absorption by alarm at 12V DC	8mA
absorption by alarm at 24V DC	16mA
protection rating	IP65
operational temperature	-25°C ÷ +70°C
conformity with standard	EN 54-3

ALARM ACTIVATION BUTTON



In red color ABS with a weight of 110 gr. 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. 30V DC
protection rating	IP41
operational temperature	max. +65°C
internal exchange contact	n.o./n.c.
conformity with standard	EN 54-11