

Access through Roof, Wall, Floor and Ceiling



Introduction

Access through roof, wall, floor and ceiling

Gorter, since 1928

Gorter was founded in 1928. Since the 1990s, Gorter has specialized in access through roofs, floors, walls and ceilings. Gorter Group is represented in Europe, Australia, New Zealand, Asia and the Middle East.

CE

On all Gorter RHT, RHTG and RHTEP hatches an application for European Technical Approvals (ETA-15/0338, ETA-18/0287 and ETA-18/0831) have been lodged. The granting of an ETA is the base for CE marking. The CE mark is accepted throughout the European Union.

Insulation

Gorter roof hatches are the only ones in the roof access category with a proven high insulating value. An independent bureau has tested and confirmed the thermal performance according to EN ISO 10077-2.

Safety

Safety is approved according to International Health and Safety Regulations, EN1050, EN-ISO14122, EN131 and NEN2484 by Aboma, a qualified and licensed safety approving institution. The reports are useful documents in the risk and safety analysis of a building.

Safe access and more

Not only do Gorter access products provide safe, convenient access to a variety of spaces, they can be complemented with added option features such as explosion relief, fire rating, glazing, acoustic damping, electric operation and are available in a range of standard and custom sizes, materials and finishes.

Fire rating

The fire resistance has been assessed by Efectis in accordance with EN 1634-1, EN 13501-2, AS1530-4 and BS476: part22.

Quality

Gorter is an EN-ISO-9001: 2008 certified company.

General performance

The general performance is tested by Stichting Kwaliteit Gevelbouw (SKG) in Wageningen (NL). SKG is an European Notified Body No. 0960, accredited by the Dutch Accreditation Council according to ISO/IEC17025:2005 and EN45011:1998. All RHT roof hatches and combinations are certified by TŰV NORD.



























Performance	RHT	RHTG
Insulation value (EN-ISO 10077-2) :	$U_{w} \le 0.319 \text{ W/(m}^2.\text{K})$	$U_w \le 0.83 \text{ W/(m}^2.\text{K)}$ HR+++ glass: U $\le 0.500 \text{ W/(m}^2.\text{K)}$
Acoustic damping : (EN-ISO 717-1:2013)	26 dB	27 dB
Watertightness (EN 12208) :	Class E 650	Class E 650
Resistance to permanent loads : (Eurocode EN 1993-1-1)	1050 kg/m ²	
Air tightness (EN 1026) :	0,5 m ³ /hm ¹	0,5 m³/hm¹
Resistance to wind load (EN 12210) :	Class E 3000	Class E 2400
Resistance to snow loads : (EN 1991-1-3)	3,97 kN/m ²	5 kN/m ²
Impact hard body (EN 13049)	Class P5A	-
Impact soft body (EN 13049) :	Class 5	Class 3
Air permeability (EN 12207) :	Class 3	Class 4

Roof hatches

Access to flat roof spaces require optimal safety

International safety regulations limit, and in some cases even forbid, the use of ladders on the exterior facade of a building. Access to roof spaces higher than 10 meters with an exterior ladder is no longer permitted due to safety concerns. The safest and most convenient way to access the roof is by using the existing stairs or lift in the building to reach the top level, and ascending the last few meters with a safe and convenient to use interior access ladder/stair and roof hatch combination.



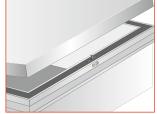
Safety of a Gorter roof hatch



- » Single hand operation
- » Locks in open position



» A safety handrail provides support during operation



- » Closed cover eliminates danger of falling through open roof cavity
- » Stainless steel Eurocylinder lock
- » Whole construction thermal Insulated

Installation

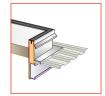
- Concrete timber and steel roof
- » Roof pitch up to 30°























- » Aluminium construction anodized and powder coated
- » Suitable for coastal environments
- » Patent no. 2519072



Roof hatches - standard design and sizes











Standard aluminium roof hatches RHT

Passage in mm ¹⁾	Weight
700 x 1000	56 kg
700 x 1400	68 kg
1000 x 1000	65 kg
1000 x 1500	84 kg
1000 x 2000	101 kg
1000 x 2500	120 kg
1000 x 3000	134 kg
	mm 1) 700 x 1000 700 x 1400 1000 x 1000 1000 x 1500 1000 x 2000 1000 x 2500

- >> Thermal insulated
- $^{>>}$ $U_{w} \le 0.319 \text{ W/(m}^2.\text{K})$
- » In aluminium
- » Burglary resistance

Exterior	Interior
RAL 7047	RAL 9010









Standard glazed roof hatches RHTG 2)

1) Hinge side is noted in bold.



Туре	Passage in mm ¹⁾	Weight
RHTG1015	1000x 1500	163 kg
RHTG1020	1000x 2000	206 kg
RHTG9024	900x 2400	221 kg
RHTG9030	900x 3000	268 kg

Exterior	Interior
RAL 9005	RAL 9010
RAL 9010	NAL 9010

- >> Thermal insulated
- >> HR+++ insulation glass 3)
- $V_{w} \le 0.83 \text{ W/(m}^2.\text{K})$ HR+++ glass: $U \le 0.500 \text{ W/(m}^2.\text{K)}$
- » In aluminium
- » Burglary resistance
- » Safety glass and Self cleaning
- » 2 powerful electric motors
- 1) Hinge side in bold. 2) We do not recommend combinations of glazed roof hatches with scissor stairs.
- 3) Do NOT walk on the glass.

Finish

Powder coated in two tone colour, with a cured dry layer thickness of 80 microns. Before powdercoating, a special surface protection layer is applied. Hatches are suitable for external exposure in coastal environments, and are highly resistant to corrosion from harsh conditions, such as high sun/wind/ rain exposure environments.











Roof hatch RHTEP - Energy performance

Туре	Passage in	Weight
	mm 1)	
RHTEP7014	700x 140 0	o 68 kg
RHTEP1015	1000x 150 0) 82 kg
1) Hinge side in bold	d.	3

- **Exterior** Interior RAL 7047 RAL 9010
- >> Thermal insulated
- $V_{W} \le 0.20 \text{ W/(m}^2.\text{K})$
- >> Sound reduction ≥ 26 dB
- » In aluminium
- » Resistance to snow loads 3.97kN/m²
- » Resistance to permanent loads: 1050 kg/m²
- » Burglary resistance

Options

» Electric control

Roof hatches - special designs













Roof Hatch, 120 min. fire rated

EN 1634-1 EN 13501-2 BS 476

AS 1530-4

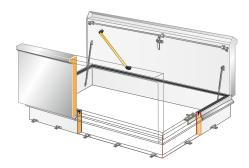


Туре	Passage in mm 1)	Weight
RHTEI7090	700 x 900	134 kg
RHTEI9090	900 x 900	157 kg
RHTEI7014	700 x 1400	185 kg
RHTEI1010	1000 x 1000	180 kg
RHTEI1015	1000 x 1500	236 kg
RHTEI1020	1000 x 2000	298 kg
RHTEI9024	900 x 2400	323 kg

Exterior	Interior
RAL 7011	RAL 9010

1) Hinge side in bold.

- Fire rating class according to EN1634-1, EN13501-2, AS1530-4 and BS476:part22
- E:120 minutes, El₁:120 minutes, El₂:120 minutes
- » KOMO:SKG.0372.0489
- » Efectis-R001575
- » In steel
- » Maximum dimensions: 900 x 2400 mm
- » TŰV SUD PSB CLS1B 170697595001
- » Close fire doors after use and keep closed!



Roof hatches - special sizes

- » Constructed from aluminium and thermal insulated
- Sizes up to approx. 4500 x 1200 mm will be supplied with single cover (>3000 mm with electrical operation).
- » Larger sizes will be supplied with two flat (or optionally inclined) covers
- >> Unless otherwise specified, the longest side will be the hinge side
- >> Fully assembled curb included for easy installation
- » Larger roof hatches with single lid are provided with a two or three point latch
- » Roof hatches with two covers only with two point latch

RHT liftable hatch

- » Gorter liftable hatches are fitted with two or more lids depending on the dimensions.
- The hatches do not have hinges but can be lifted with a crane by means of the lifting eyes (4 per hatch).
- >> When the lids are removed, there is a clearance in the roof through which material can be brought inside.
- » The lifting hatches can be used on flat roofs.





Roof hatch as an explosion vent - RHTX

Roof hatches type RHT1010, RHT1015 and RHT1020 can be equipped with an Explosion Release Control (ERC), patent no. 1870542. The ERC releases if the pressure on the inside cover exceeds approx. 100 kg force (Report Institute for Atomic and Molecular Physics, AMOLF, Amsterdam). The explosion venting roof hatch is only available in aluminium. Always keep vent opening free on both sides from obstacles that might obstruct performance.

- » Actual standard: EN1991-1-7:2006
- The vent opening must be calculated by a recognized and specialized building and construction engineer

Acoustic damping

» Standard sound reduction: 26 dB

Burglary resistant

Roof hatches can be supplied with extra security features such as a burglary resistant cylinder lock or high strength stainless steel construction. A Burglary resistant cylinder lock offers increased protection according to EN1303 and EN12209. Roof hatches in stainless steel are also an option.

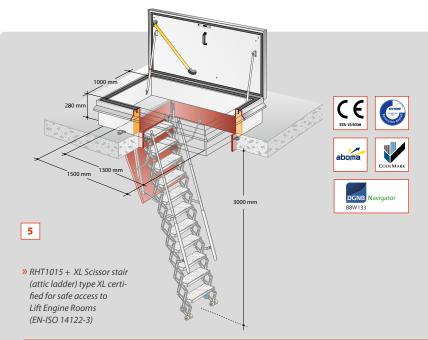




Gorter safe access combinations

Gorter patented access combinations consisting of a roof hatch and ladder/stair are certified safe. Safety reports, available as a document, substantiate the safety of Gorter roof access solutions and can be used as proof of compliance for any required Risk Inventory and Evaluation.

Gorter combination: roof hatch + scissor stairs (attic ladder)



	Туре	Passage in mm 1)	Stairs type	Structural opening in mm
1	RHT7010	700 x 1000	S+	700 x 1000
2	RHT7014	700 x 1400	Large	700 x 1200
3	RHT7014	700 x 1400	Large electric 2)	700 x 1200
4	RHT7014	700 x 1400	Large El-60 ³⁾	700 x 1200
5	RHT1015	1000 x 1500	XL	1000 x 1300



» RHT7010 + S+



» RHT7014 + Large



>> RHT7014 + El-60 Fire rating class El-60

- 1) Hinge side is noted in bold. 2) 230 Vac, including control unit and wireless RF remote control. 3) Fire rating El-60 (60mins).
- » All scissor stairs are TŰV NORD certified according to EN 14975:2010
- » Scissor stairs Large El60: KOMO:SKG.0372.0457
- » Fire rating class according to EN 1634-1

For more information about scissor stairs and the extension of scissor stairs see pages 16 to 18.

Plenum extension of scissor stairs for suspended ceiling applications

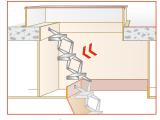
Type Large, El-60 and XL can be safely extended to bridge the distance between a suspended ceiling and a roof hatch.

- » Dutch patent no. 2000298
- >> Type Small, El60 and Large Electric are not extendable









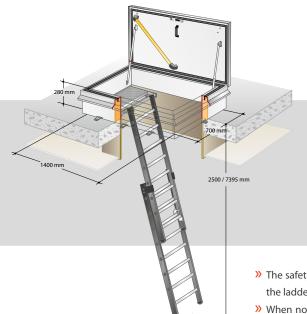
» Extension of scissor stairs



Gorter combination: roof hatch + safety hook-on ladder

All Gorter roof hatches can be safely combined with a Gorter safety hook-on ladder. During use, the Gorter safety hook-on ladder, type EL (single) or OL (double/triple), is hooked over a fixed anti-skid step mounted in the ceiling/roof cavity.









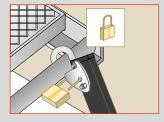












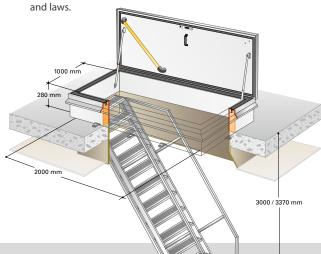
» Wall mount brackets

» Hook-on system with padlock provision

- >> The safety hook-on ladder is equipped with padlock provision (padlock not included) to allow the ladder to be locked into place to prevent unauthorized removal or slipping whilst in use
- When not in use, the ladder can be hung on two wall suspension brackets (included), one of which is equipped with padlock hasps to prevent theft/unauthorized use
- » Ladders are manufactured from anodized aluminium and fitted with anti skid treads

Gorter combination: roof hatch + fixed step ladder

Gorter fixed step ladders are designed for use in combination with a roof access hatch. Gorter fixed step ladders are suitable for all applications requiring safe access to a roof/ceiling space by a step ladder or stairway. Please contact your local office to confirm compliance with local building codes





- » Designed to have a modern, aesthetically pleasing appearance
- » Easy to assemble on site
- » Depending upon the situation, the slope can be adjusted from 55° 65°
- » Anti-skid steps as a standard
- » Anodized aluminium
- » GS55: Dutch patent no. 2007133









Roof hatch type	Passage in mm 1)	Step ladder type
RHT1015	1000 x 1500	GS50 ²⁾
RHT1025	1000 x 2500	GS50 ²⁾ /GS55 ³⁾
RHT1030	1000 x 3000	GS50 ²⁾ /GS55 ³⁾
RHTG1015	1000 x 1500	GS50 ²⁾
RHTG1020	1000 x 2000	GS50 ²⁾
RHTG9024	900 x 2400	GS50 ²⁾ /GS55 ³⁾
RHTG9030	900 x 3000	GS50 ²⁾ /GS55 ³⁾



- 1) Hinge side is noted in bold.
- 2) Floor to Roof height GS50 : 2500 mm (50°) 3000 mm (66°)
- 3) Floor to Roof height GS55: 3000 mm (55°) 3370 mm (65°)



Why are Gorter combinations safe?

- » A safe handrail is provided along the entire route to the roof
- » Scissor stair attic ladders have adjustable anti-skid steps
- » Safety hook-on ladders have anti-skid rungs
- >> Safety hook-on ladders and stairs cannot slide away
- » Safety hook-on ladders and stair can be locked to prevent unauthorized removal
- » The entire route is free from sharp obstacles which may cause injuries or hinder access
- >> The roof hatch can be opened and closed using one hand
- » The roof hatch automatically locks in the open position and can be released with one hand
- » A diagonal hand rail is provided on the internal cover to safely access and exit the roof hatch
- » Fall prevention: keep cover shut while on the roof to prevent fall hazard through open roof cavity.









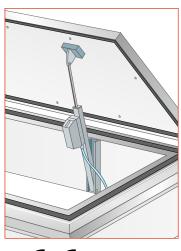
» Locked during use

» Closed cover prevents against accidental falls

Safety reports are not applicable to combinations of a roof hatch with a ladder or retractable stairs supplied by third parties.







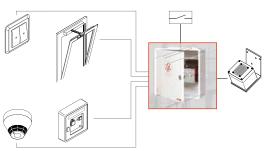
Electrical operation

Roof hatches can be supplied with either $24 \, \text{V}$ DC or $230 \, \text{V}$ AC electrical operation. Electrical operation (24 V DC) can be provided with a control box to enable connection with central alarm systems and indicators, such as rain or storm detectors.

For emergency exits, the control box can be fitted with batteries to ensure power supply in case of mains failure.

Hatches with two covers are supplied with at least two motors and an electronic closing sequence regulator in the control box.

Installation, connection and cabling must be carried out by a licenced electrician.

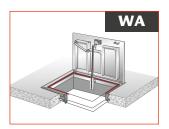


Floor doors

Floor doors can be supplied with a hinged (WA and OP) or detachable cover (VL and PT). The cover is finished flush with the surface of the floor. A surface mounted model (OP) is also available.

Flush covers are manufactured from checkerplate. The recessed cover for infill with flooring material is manufactured from aluminium sheeting. Depending on the size, hatches are supplied with single or dual lids. Floor doors are supplied fully assembled with frame and cover. Depending on the model, the frame is provided with integrated anchors all around the perimeter, or welded adjustable anchors. Custom floor doors can be manufactured for retrofitting in concrete or framed floors.





» Hinged floor door with one cover



» Floor door with recessed cover for infill with flooring material



» Floor door with glass cover

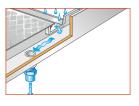


» Floor door - 120-min. fire rated

Features of hinged floor doors, flush

WA

In and outdoor application



All aluminium models are suitable for indoor and outdoor use. The water draining frame is prepared for mounting a ø 40 mm u-PVC socket to connect to the drain system.

In combination with ladder or stairs

Depending on the opening size and specific building site situation, hinged floor doors can be combined with a fixed vertical ladder, safety hook-on ladder, or retractable/fixed stairs.

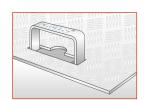
Safe and user-friendly

- » Smooth and comfortable one-hand operation, regardless of the size and weight of the cover
- » The counter-balance system offers assisted opening and controlled closing with one hand
- » The cover automatically locks in an open position and releases with one hand
- » A diagonal safety hand rail will be supplied for types with a length > 600 mm
- » Anti-skid checkerplate lid with flush hand grip







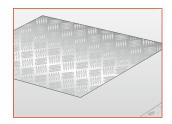




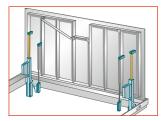
Load of hinged, flush floor doors

The load meets the most severe conditions of EN1991-1-3: 2003 and AS1170-1. The calculations are based on safety class 3, Y f;q;u = 1,5 and Roark's Formulas for Stress and Strain, 7th Edition, Table 11.4 - Case 1a - Plate, all edges simply supported, uniform loaded.

- >> The cover reinforcing is considered as beams on two supports
- » Application in situations with frequent dynamic loading is not recommended



Electrical operation



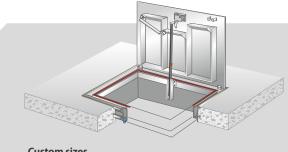
WA and WAPT can be supplied with 24 V DC or 230 V AC electrical operation. Electrical operation(24 V DC) can be extended with a control box to enable connection with central alarm systems.

For emergency exits, the control box can be fitted with batteries to ensure power supply in case of mains failure. The control box keeps the batteries charged and is programmable for a range of functions. Floor doors with two covers are supplied with at least two motors and the control box has a sequence regulator to close the covers in the correct order. Installation, connection and cabling must be carried out by a licenced electrician.

Standard design



With anti skid checker plate - type WA



Custom sizes

Custom sizes are available.

Models > 1000 x 2500 mm will be supplied with 2 covers.

Standard sizes in mm 1)

600 x 600	1000 x 1500
800 x 800	1000 x 2000
1000 x 1000	

1) Hinge side is noted in bold.

Load

 $15\,kN$ per m^2 according to EN 1991-1 **Finish**

» Mill finish anodised aluminium

Options:

» Powder coated in RAL colour



WA = water draining frame

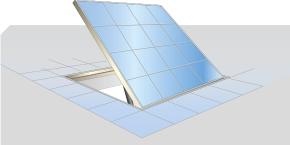
E = with 1 cover

D = with 2 covers

» Available as an emergency door

» Available with an insulated cover

With recessed cover for infill with flooring material - type WAPT



Custom sizes

Custom sizes are available.

Models $> 1000 \times 2500 \text{ mm}$ will be supplied with 2 covers.

Standard sizes in mm 1)

600 x 600	1000 x 1500
800 x 800	1000 x 2000
1000 x 1000	

1) Hinge side is noted in bold.

Load

5 kN per m² according to EN 1991-1

Finish

» Mill finish anodised aluminium

Options:

» Powder coated in RAL colour



WA = water draining frame

E = with 1 cover

D = with 2 covers

PT = recessed cover for fill with ceramic tiles, carpet or timber

Glass floor door WAG





Standard sizes in mm 1)

1000 x **1000** 1000 x **2000**

1) Hinge side is noted in bold.

Material

- » Safety glass with fall protection
- » Glass can be walked on
- » Robust stainless steel hinges
- » Flush glass plate
- >> WA = water draining frame
- » 2 powerful electric motors

Glass floor doors are supplied in:

RAL 9005

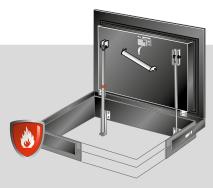
Performance

- >> Load up to 750 kg/m² according to din 18008-5 / EN1991 when closed
- » Maximum point load of 500 kg per 50x50 mm

Finish

» Standard finish powder coating RAL 9005

Floor door WAEI 120 min. fire rated



Custom sizes

Maximum dimensions: 1000 x 2000 mm

EW: 120 minutes
EI₁: 30 minutes
EI₂: 45 minutes







EN 1634-1

EN 13501-1 AS 1530-4

Standard sizes in mm 1)

600 x	600	1000 x 1500
800 x	800	1000 x 2000
1000x	1000	

1) Hinge side is noted in bold.

Material

- » Fire rated floor doors are manufactured from steel
- >> WA = water draining frame

Finish

- » Pre primed
- » Standard finish powder coating RAL 9005

Fire rated floor doors are supplied in:

RAL 9005

Options

» Powder coated in a special RAL-colour

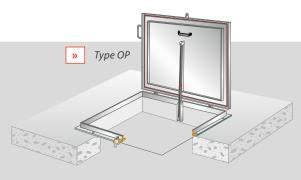
Performance

- » According to EN1634-1, EN13501-2, AS1530-4 and BS 476-22:1987.
- » KOMO:SKG.0372.0488
- » Efectis-R000702
- » TŰV SUD PSB CLS1B 170697595002
- » Close fire doors after use and keep closed!



Hinged floor doors - surface mounted, in aluminium





Standard sizes in mm 1)

800 x 800	1000 x 1500
1000 x 1000	1000 x 2000

1) Hinge side is noted in bold.

Types

Type OP: with checker plate cover **Type OP-S:** OP + fall protection ** *Mill finish anodised aluminium*

Load

5 kN per m² according to EN 1991-1

Options:

Type OP-D: with 2 covers

Custom sizes

Custom sizes are available.

Installation

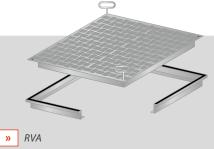
On floor or pit surface.

Floor doors with detachable cover, non-hinged

Gorter Floor Doors with detachable covers offer an economically convenient solution in situations where the door is not used frequently and the specified sizes are minor.







Types

RVA : flush, aluminium, with checker plate cover RV : flush, galvanised, checker plate cover **BV-FL** : galvanised steel, 27 mm recessed for infill

BV-FL-THERMO : galvanised steel, 27 mm recessed for infill, insulated

 BV : galvanised steel, 50 mm recessed for infill

BV-THERMO : galvanised steel, 50 mm recessed for infill, insulated

: aluminium, 65 mm recessed for infill BVA







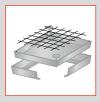


» BV-FL-THERMO











» BV » BV-THERMO

» BVA	

» BV-FL

Standard dimensions		Туре						
Passage in mm	RVA	RV	BV-FL	BV-FL-THERMO	BV	BV-THERMO	BVA	
500 x 500	-	-	-	•	-	•	-	
600 x 400	•	•	•	-	•	-	•	
600 x 600	•	•	•	•	•	•	•	
800 x 600	•	•	•	•	•	•	•	
800 x 800	•	•	•	•	•	•	•	
1000 x 600	•	-	•	•	•	•	•	
1000 x 1000	•	•	-	-	-	-	-	
■ = available, − = not available	Load RVA, RV, BV-F	Load RVA, RV, BV-FL::15 kN/m ² Load BV, BVA: 125 kN/m ²						



Wall and ceiling doors

Wall and ceiling doors allow access to ducts, cable shafts and spaces that are otherwise not accessible for service and repair.

Materia

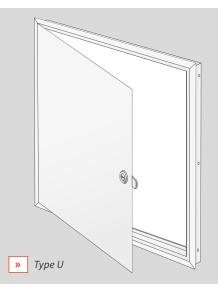
Wall and ceiling doors are made of KTL (cathodic dip painting) treated steel and have a powder coating finish in RAL 9010.

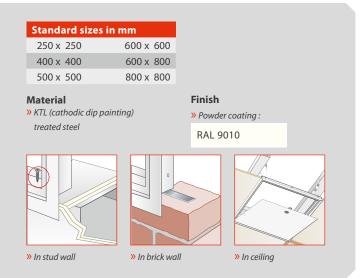
Hardware

All doors are manufactured with a CAM lock.



Wall and ceiling door type Universal





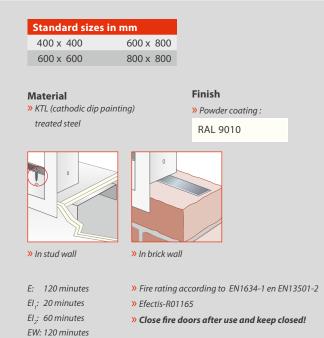
Wall door type B, fire rated 120 minutes



EN 1634-1

EN 13501-2







Type EXW - Explosion vents



Explosion vents are designed for installation in external vertical walls or facades. The door and door frame are made of an extruded aluminium profile with a thermal break. The door has an infill of a double-faced aluminium sheet with hard foam. The door opens to the outside.

Sizes

Explosion vents are made according to specification.

Explosion Release Control (ERC)

The explosion vent frame is provided with an Explosion Release Control (Patent No. 1870542). The door is provided with a cylinder lock with Euro cylinder operated from the inside. If the pressure on the inside door leaf exceeds approx. 100 kg-force the ERC will release. The ERC is tested and approved by AMOLF, the Institute for Atomic and Molecular Physics in Amsterdam.

Note: if the door is pulled from the outside with the same power as the release power, the ERC will open.

Finish

Powder coated to any colour specification, standard dry layer thickness 60 micron.

Calculation of the vent opening

The size of the vent opening must be calculated by a certified engineering company in accordance with local building codes.

» Actual standard: EN1991-1-7:2006





Ladders and scissor stair (attic ladders)

Gorter safety hook-on ladders and scissor stair (attic ladders) are safe and easy to use and are manufactured from top quality materials to guarantee optimal reliability and a long service life.

Safety hook-on ladders and scissor stair (attic ladders) are approved for safety, construction strength and operation by certified international safety approval institutions.

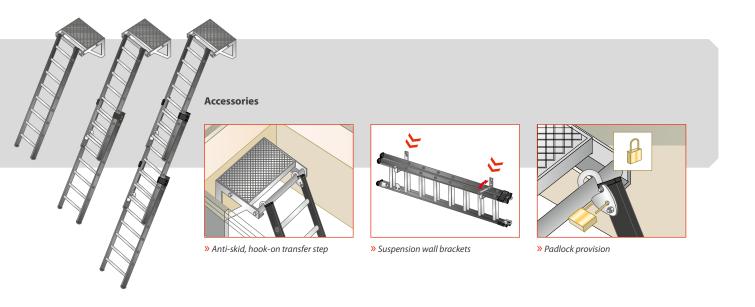


Hook-on ladders

Hook-on ladders are supplied to the specified room height in single (EL), double (OL2) or triple (OL3) designs.



- >> Hook-on ladders are made in accordance with EN131
- >> Standard anodized aluminium









Scissor stair (attic ladders)

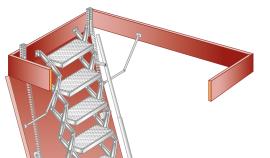




2 Type Large







Retractable scissor stairs (attic ladders) consist of a casing with a wooden ceiling panel. A telescopic hand rail is included and easy to install. The scissor stair is attached to a hinged ceiling panel and is made of cast aluminium. A hook-on rod is included.

Gorter scissor stair (attic ladders) are manufactured from top quality materials and designed to provide a safe, durable and reliable access solution that is load tested upto 260 kg.

Safety

- Counterbalanced for practically effortless operation. An exertion of less than 3kg of force is required.
- Adjustable anti-skid steps
- » Hand rail can be mounted on the left or right
- >> Prepared for securing with a padlock
- » Safety approved: TŰV NORD certificate



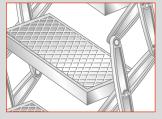






- Type Structural size Step size (w x l x h) in mm (w x d) in mm 1 S+ 700 x 1000 x 320 350 x 140 Large 700 x 1200 x 250 350 x 140 Large-H 700 x 1200 x 250 350 x 140 2 Large Electric 1) 700 x 1200 x 250 350 x 140 700 x 1200 x 250 Large-H Electric 1) 350 x 140 Large El-60 2) 700 x 1200 x 250 350 x 140 Large-H EI-60²⁾ 700 x 1200 x 250 350 x 140 XL 3) 5 1000 x 1300 x 250 480 x 140 XL-H 3) 1000 x 1300 x 250 480 x 140
- » All scissor stairs are TŰV NORD certified
- » Scissor stairs Large EI60: KOMO:SKG.0372.0457
- » Fire rated according to EN 1634-1

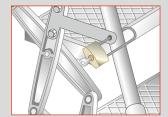
- 1) 230 Vac, including control unit and wireless RF remote control.
- 2) Fire rating class El 60, KOMO:SKG0372.0457
- With two hand rails. RHT1015 Certified for Access to Lift Engine Rooms according to EN 14122-3 and EN 14975.



» Adjustable anti-skid steps

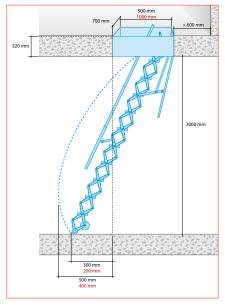


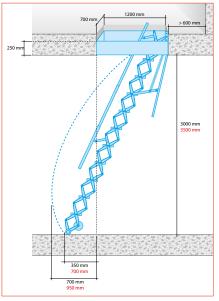
» Hand rail on left or right side

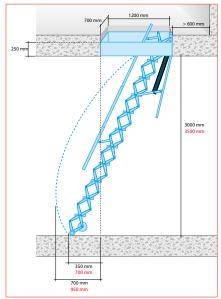


» Padlock provision

Dimensions



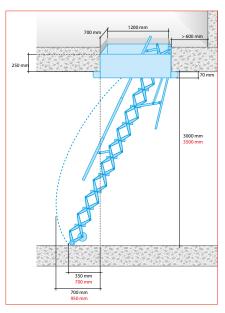


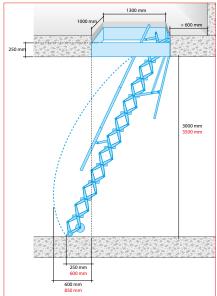


» Type Small and S+

» Type Large and Large H

» Type Large Electric and Large-H Electric





» Type Large El-60 and Large-H El-60

» Type XL and XL-H







Extension of scissor stair (attic ladders) for use in suspended ceilings

In applications where the stair is fixed into a suspended ceiling, a plenum extension is necessary to bridge the distance between the suspended ceiling and the roof hatch. The stairs are extended upwards with two or more steps, without any change to the gradient. This provides a safe access solution without the need for vertical steps.

- >> Type Small, S+, El60 and Large Electric are not extendable
- » An Aboma Safety report is available
- » Dutch patent no. 2000298



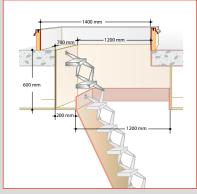


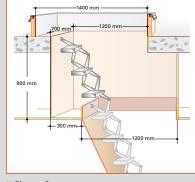


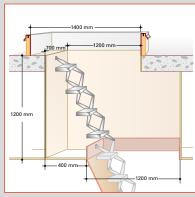
» Extension of scissor stairs (plenum 3)

Dimensions

For type Large





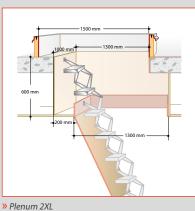


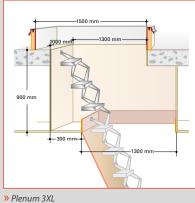
» Plenum 2

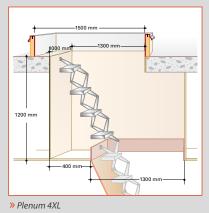
» Plenum 3

» Plenum 4

For type XL







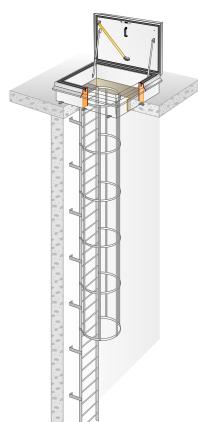




Fixed vertical ladders, with or without safety cage

EN-ISO 14122-4





Fixed ladders are supplied with a pre-assembled cage with five strips (cage if applicable) and ladder supports for fixing to the external wall of the building.

Safety

- » A safety cage (ø 700 mm) will be necessary from a height of 2200 mm or if the ladder is situated less than 3 metres from a difference in ground level
- » If the difference in level is > ten metres an intermediate platform is needed
- » If the difference in level is > ten metres the ladder sections between intermediate platforms must be less than six metres
- » In applications where the cage ladder is fixed onto an external facade a step-over platform is necessary to safely access the roof
- » At ground level the ladder must be lockable to prevent damage and unauthorised access
- » The step-over, designed as a grading step, has a width of 180 mm
- » In accordance with EN-ISO 14122-4 and AS1657-1992
- » Fixed vertical ladders are suitable for combination with roof access hatches
- » For Australian standards, the hatch has to be at least 1000 x 100 mm



» Safety cage

» Vertical fixed ladder with safety cage

Warranty



30 years from delivery date covers roof hatches*)



3 5 years from delivery date covers floor, wall and ceiling doors*)



3 1 year from delivery date covers electrical operation, hook-on ladders, cage ladders, scissor stairs and fixed stairs*

*) Full terms and conditions of warranty and delivery available on request.





The Netherlands

Gorter Luiken BV

Visit address: Zuiderweg 12 NL-1741 NA Schagen The Netherlands

Postbus 265 NL-1740 AG Schagen The Netherlands

Phone: +31 224 21 98 60
E-mail: info@gorterluiken.nl
Website: www.gorterluiken.nl

Belgium and Luxembourg

Gorter - Obelux

Meersbloem - Leupegem 21 B-9700 Oudenaarde Belgium

Phone: +32 5 523 2590 E-mail: info@gorterbelgie.be Website: www.gorterbelgie.be

France

Gorter - Obelux

Phone: +33 1 86 70 06 15
E-mail: info@gorterfrance.fr
Website: www.gorterfrance.fr

Germany

Gorter Deutschland GmbH

Ohligsmühle 7 42103 Wuppertal Germany

Phone: +49 202 94709130

Munich

Phone: +49 89 2421 8042

Zeven

Phone: +49 4281 959 3045

E-mail: info@gorterdeutschland.de Website: www.gorterdeutschland.de

Italy

Gorter Italia™

Via Nazionale 64 39040 Ora (BZ)

Italy

Phone: +39 3408 230 686 E-mail: info@gorter.it Website: www.gorter.it

Switzerland

Gorter Schweiz

E-mail: info@gorter.ch Website: www.gorter.ch

Spain

Gorter España™

Phone: +34 91 7710 249 E-mail: info@gorter.es Website: www.gorter.es

Denmark

Gorter Danmark™

E-mail: info@gorterdanmark.dk Website: www.gorterdanmark.dk

Sweden

Gorter Sverige™

E-mail: info@gorter.se Website: www.gorter.se

Hungary

Gorter Hungary Kft.

Helvécia, H-6034 Rákóczi Str. 84. Hungary

E-mail: info@gorterhungary.hu Website: www.gorterhungary.hu

Singapore

Gorter Hatches Singapore

Phone: +65 3159 0002

E-mail: sales@gorterhatches.com Website: www.gorterhatches.com

Argentina

Gorter Argentina™

E-mail: info@gorter.com.ar Website: www.gorter.com.ar

United Arab Emirates

Gorter UAE

E-mail: info@gorter.ae Website: www.gorter.ae

Gorter Group™



Australia, Asia and Middle East Gorter Hatches Pty Ltd

Melbourne

105 Wellington Street St Kilda VIC, 3182 Australia

Phone: +61 3 8648 6636

Perth

Phone: +61 8 9463 6636

Adelaide

Phone: +61 8 8311 1136

Brisbane

Phone: +61 7 3337 9936

Sydney

Phone: +61 2 8580 4436

E-mail: sales@gorterhatches.com.au Website: www.gorterhatches.com.au

New Zealand

Gorter Hatches™

Auckland

Phone: +64 9 280 4726

E-mail: sales@gorterhatches.co.nz Website: www.gorterhatches.co.nz



