



LOFT
LADDERS **2010**



Folding Loft Ladders

enable safe and easy access to non-inhabited loft spaces without the need for installing costly and space consuming staircases. Fakro Folding Ladders satisfy all technical and safety requirements whilst maximising ease of use and comfort.



SPACE SAVINGS

Fakro Loft Ladders require little 'swing space' for operation. When folded, the sections are concealed inside the Loft Space, maximising space in the room below.

EASE OF INSTALLATION

The Installation system ensures that the Ladder can be easily installed by two persons. Height can be easily adjusted to suit room height. Ladders come as fully assembled products and do not require any additional pre-installation work.

EASE OF OPERATION

The compact structure of the hatch facilitates ease of operation of the Loft Ladder. An opening rod is supplied with every Loft Ladder enabling the user to open and close the unit with ease.

ADDITIONAL EQUIPMENT

In order to maximise comfort and accelerate installation of the Loft Ladder, **additional accessories are available.**

WARRANTY

FAKRO loft ladders come with a **3-year warranty.**

TYPES OF LOFT LADDERS AND THEIR SELECTION

Fakro offer various models of Loft Ladders, making it possible to satisfy the needs of each individual customer. The hatch doors of Fakro loft ladders are insulated, when closed ensure high tightness reducing heat loss of your loft. A popular Ladder within the range would be the LWS model. However, with a slightly more generous budget to dispose of, the customer may choose the LWK model. The LWK comes with a white hatch, handrail and protective stile ends as standard.



WOODEN FOLDING SECTION LOFT LADDER					SLIDING SECTIONS
INSULATED U=1.1 W/m ² K			HIGHLY INSULATED U=0.76 W/m ² K	FIRE-RATED	INSULATED
LWS	LWK	LWL	LTK	LWF	LDK
					
					
					

Other Loft Ladders available for special circumstances include the following. . .

The Highly efficient LTK is available for customers who place emphasis on the lowest possible heat transmittance. Where a ladder cannot be unfolded, the LDK Sliding Loft Ladder can be used. Should the Loft Ladder be required to perform the role of a blaze and smoke block in the event of fire, both LWF and LSF Scissors Loft Ladders are available. An additional advantage to using the LSF is it's quick installation and smaller opening dimensions.

In order to gain access to Loft spaces which are to be used frequently, the LWM metal Loft Ladder with increased resistance can be employed. Model LWM-K is equipped with additional safety handrail and comes in a white finish door. LST, LSZ Scissors Loft Ladders offer smaller box dimensions and shorter installation times. They are particularly recommended for places where installation of standard section Loft Ladders is impossible. What's more, thanks to their unique mechanism, they can be folded and unfolded by the control rod provided, thus providing the ideal solution for high ceiling rooms.

For rooms with more space available, the MSU staircase can be installed. Thanks to it's simple and solid structure, it proves to be a perfect solution for access to frequently used loft spaces.

FOLDING SECTION WITH METAL HANDRAIL		SCISSORS			STATIONARY
INSULATED		INSULATED		FIRE-RATED	
LWM	LWM-K	LST	LSZ	LSF	MSU
					
					
					

WOODEN SECTION LOFT LADDERS



BOX

The Loft Ladder box is made of wood. Within the milled section is situated a peripheral seal. Once the hatch is closed, this seal ensures proper tightness of the entire box structure. The special box design enables quick and easy fitting of finishing lining or architrave.

HATCH UNLOADING

MECHANISM

Operation of the Loft Ladder is significantly improved because of Fakro's unique unloading mechanism. Once unlocked, the hatch opens slowly without any potential danger to the user. Once fully opened, this mechanism will also hold the hatch in position, preventing it from slamming shut.

HARDWARE

The patented corner hinge reinforces the rigidity of the box and prevents any changes in the diagonal lengths. Thanks to this, the box is not affected by any deformations and can be operated trouble free once installed. The hinges joining each of the sections provide rigidity to moving connections.

HATCH

The loft ladder hatch is made of wood and can be insulated or fireproof. The applied thermal-insulation protects against heat losses and, in fireproof loft ladders, also against significant heat build-up during fire. The external hatch surface is smooth without any visible fixing elements, thanks to which our loft ladders go well with any interior design.

TREADS

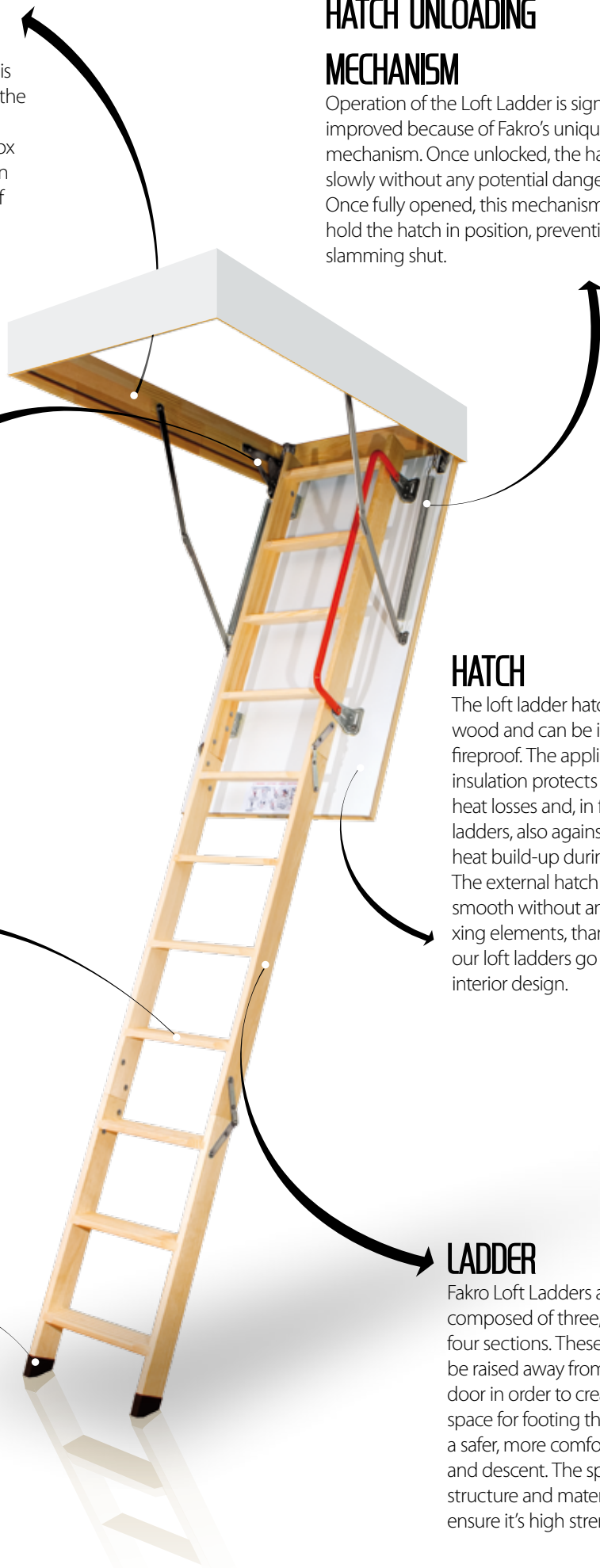
Grooves which are cut into the tread surface protect the user from accidental slipping while using the ladder.

LADDER

Fakro Loft Ladders are usually composed of three, sometimes four sections. These sections can be raised away from the hatch door in order to create additional space for footing thus ensuring a safer, more comfortable ascent and descent. The special ladder structure and materials used ensure it's high strength.

STILE ENDS

Stile ends made of plastic protect the floor surface from scratches and additionally add to the overall ladder stability.



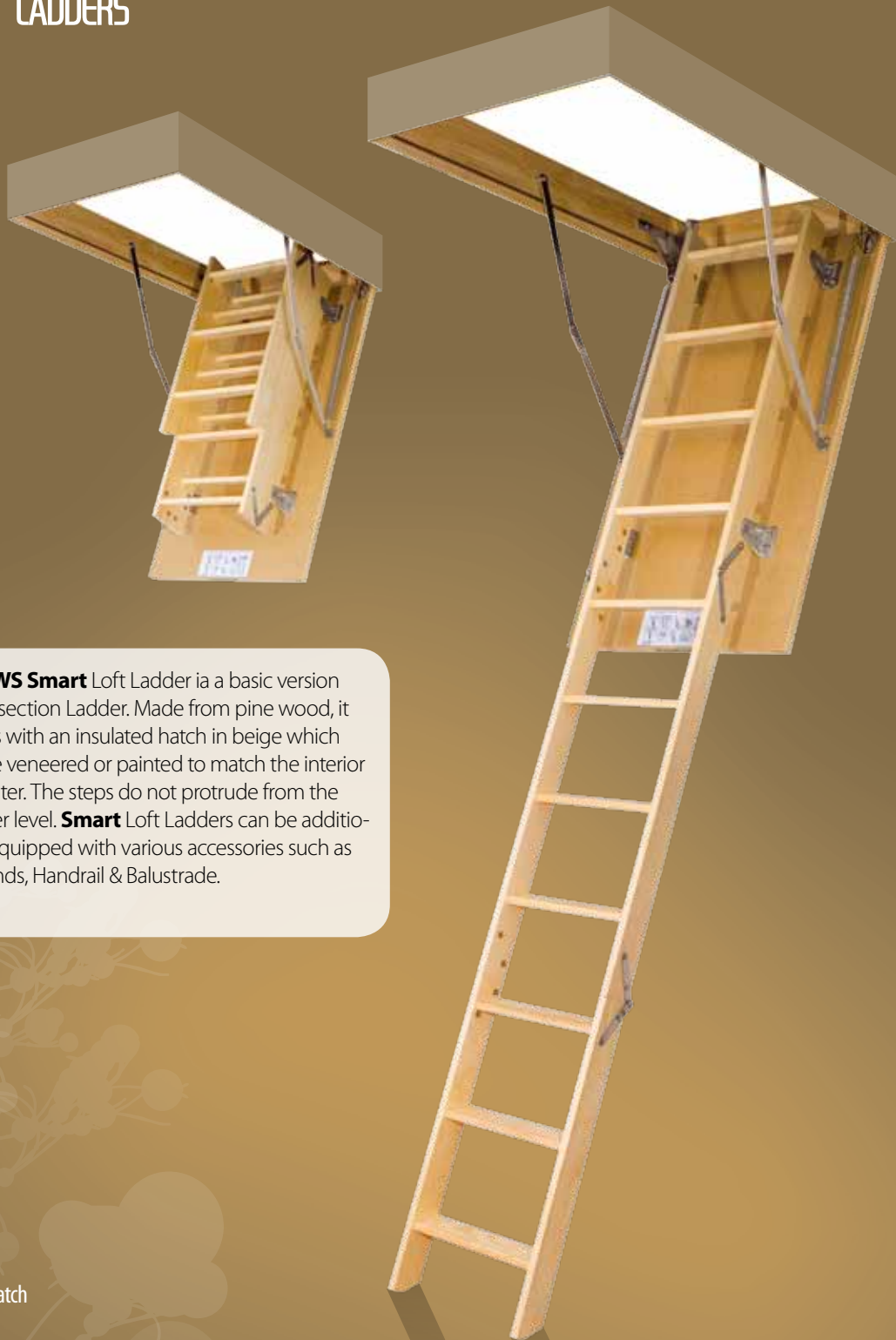
WOODEN
LOFT LADDERS



WOODEN FOLDING SECTION LOFT LADDERS

LWS
SMART

U=1.1
W/m²K



The **LWS Smart** Loft Ladder is a basic version of 3-4 section Ladder. Made from pine wood, it comes with an insulated hatch in beige which can be veneered or painted to match the interior character. The steps do not protrude from the stringer level. **Smart** Loft Ladders can be additionally equipped with various accessories such as Stile Ends, Handrail & Balustrade.

FEATURES



beige hatch



treads set flush with ladder stringers



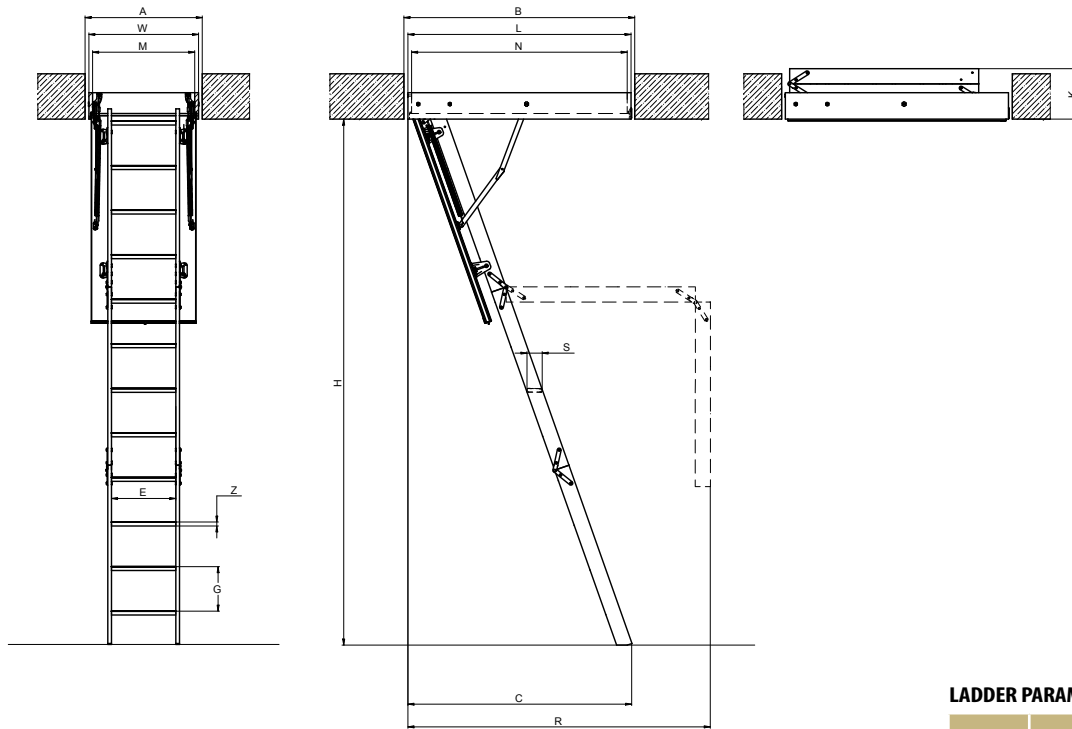
possibility of installing additional accessories
(balustrade, slats, stile ends in 3-section version only, handrail, upper hatch).



fully assembled and ready
for quick installation in the ceiling

Satisfies the requirements of EN 14975

Technical specification
permissible loading 160 kg
heat transmission coefficient $U_{\text{LOFT LADDER}} 1.1 \text{ W/m}^2\text{K}$
insulation thickness 3 cm
hatch thickness 3.6 cm



LADDER PARAMETERS *

Tread length E [cm]	Tread width S [cm]	Tread thickness Z [cm]	Distance between treads G [cm]
34	8	2	25

* - concerns standard loft ladders

LOFT LADDER DIMENSIONS

Ceiling opening dimensions [cm]	AxB	55x111	60x94	60x100	60x111	60x120	60x130	70x94	70x100	70x111	70x120	70x130	70x140	60x130	60x140	70x130	70x140
Room height [cm]	H	280											305				
Box external dimensions [cm]	WxL	55x111,4	58x92,4	58x98,4	58x111,4	58x118,4	58x128,4	68x92,4	68x98,4	68x111,4	68x118,4	68x128,4	68x138,4	58x128,4	58x138,4	68x128,4	68x138,4
Box internal dimensions [cm]	MxN	51x107	54x88	54x94	54x107	54x114	54x124	64x88	64x94	64x107	64x114	64x124	64x134	54x124	54x134	64x124	64x134
Folded ladder height [cm]	K	33															
Swing space [cm]	R	159	138	159	162	138	159	162	179								
Distance after ladder unfolding [cm]	C	108	120	108	121	120	108	121	130								
Box height [cm]		14															
Number of segments		3	4		3	4		3									

LOFT LADDER DIMENSIONS

Commercial sizes [cm]		55x111	60x94	60x100	60x111	60x120	60x130	70x94	70x100	70x111	70x120	70x130	70x140	60x130	60x140	70x130	70x140
Room height [cm]	H	280											305				

- order processing time 3 working days
- order processing time 10 working days

For information on non-standard sizes see page 27

WOODEN
LOFT LADDERS



WOODEN FOLDING SECTION LOFT LADDERS

LWK
KOMFORT

U=1.1
W/m²K



The **LWK Komfort** Loft Ladder is a premium quality folding 3-4-section Loft Ladder. It is equipped with an aesthetically finished insulated hatch in white and accessories enabling comfortable loft ladder usage as standard – stile ends and handrail. Steps protrude from the stringers facilitating climbing the ladder.

FEATURES



stile ends
(in 3-section version only)



white hatch



handrail



treads protruding from stringers



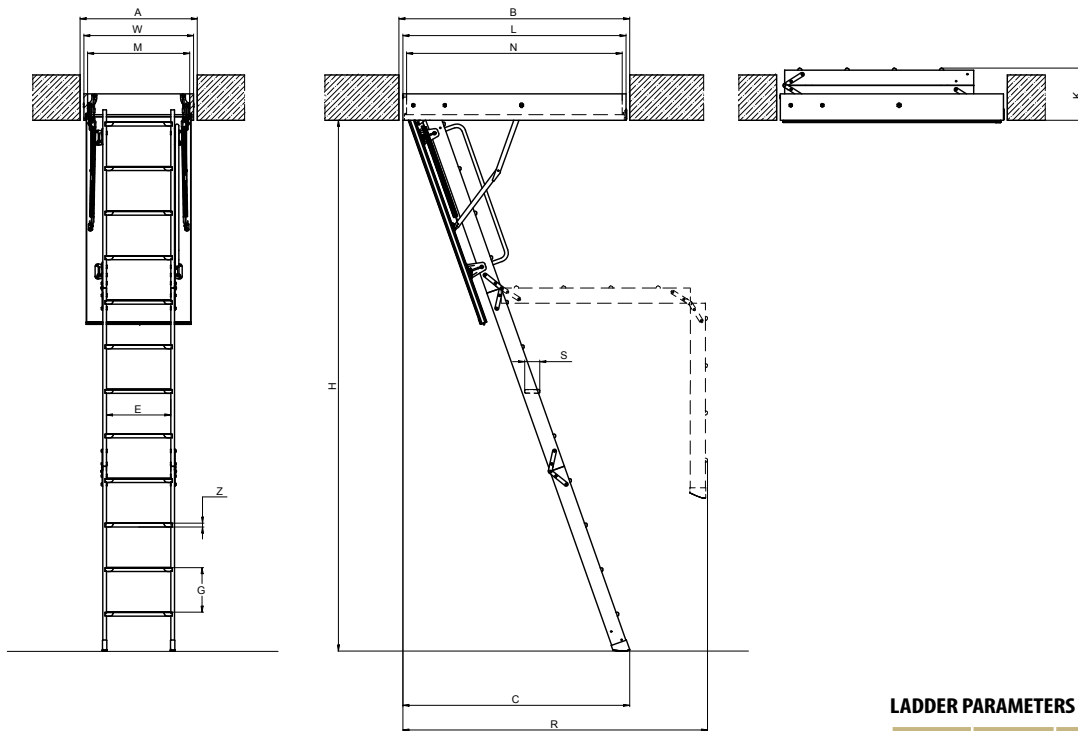
possibility of installing additional accessories
(handrail, slats, upper hatch)



fully assembled and ready
for quick installation in the ceiling

Satisfies the requirements of EN 14975

Technical specification
permissible loading 160 kg
heat transmission coefficient $U_{LOFT LADDER}$ 1.1 W/m²K
insulation thickness 3 cm
hatch thickness 3.6 cm



LADDER PARAMETERS *

Tread length E [cm]	Tread width S [cm]	Tread thickness Z [cm]	Distance between treads G [cm]
34	8	2	25

* - concerns standard loft ladders

LOFT LADDER DIMENSIONS

Ceiling opening dimensions [cm]	AxB	55x111	60x94	60x100	60x111	60x120	60x130	70x94	70x100	70x111	70x120	70x130	70x140	60x130	60x140	70x130	70x140	
Room height [cm]	H	280												305				
Box external dimensions [cm]	WxL	55x111,4	58x92,4	58x98,4	58x111,4	58x118,4	58x128,4	68x92,4	68x98,4	68x111,4	68x118,4	68x128,4	68x138,4	58x128,4	58x138,4	68x128,4	68x138,4	
Box internal dimensions [cm]	MxN	51x107	54x88	54x94	54x107	54x114	54x124	64x88	64x94	64x107	64x114	64x124	64x134	54x124	54x134	64x124	64x134	
Folded ladder height [cm]	K	34																
Swing space [cm]	R	159	138	159	162	138	159	162	179									
Distance after ladder unfolding [cm]	C	108	120	108	121	120	108	121	130									
Box height [cm]		14																
Number of segments		3	4	3	4	3												

LOFT LADDER DIMENSIONS

Comercial sizes [cm]		55x111	60x94	60x100	60x111	60x120	60x130	70x94	70x100	70x111	70x120	70x130	70x140	60x130	60x140	70x130	70x140
Room height [cm]	H	280												305			

- order processing time 3 working days
- order processing time 10 working days

For information on non-standard sizes see page 27

WOODEN
LOFT LADDERS



WOODEN FOLDING SECTION LOFT LADDERS

LWL
LUX

U=1.1
W/m²K



The **LWL Lux** Loft Ladder for greater safety and user comfort has been equipped with an additional handrail, mounted onto the middle section. It also possesses special mechanism which assists ladder folding and unfolding by means of a gas spring. The special mechanism of the hatch unloading mechanism makes it possible to eliminate the use for a locking latch.

FEATURES



stile ends



white hatch



two handrails



treads protruding from stringers



possibility of installing additional accessories (balustrade, slats, upper hatch)



3 year
warranty

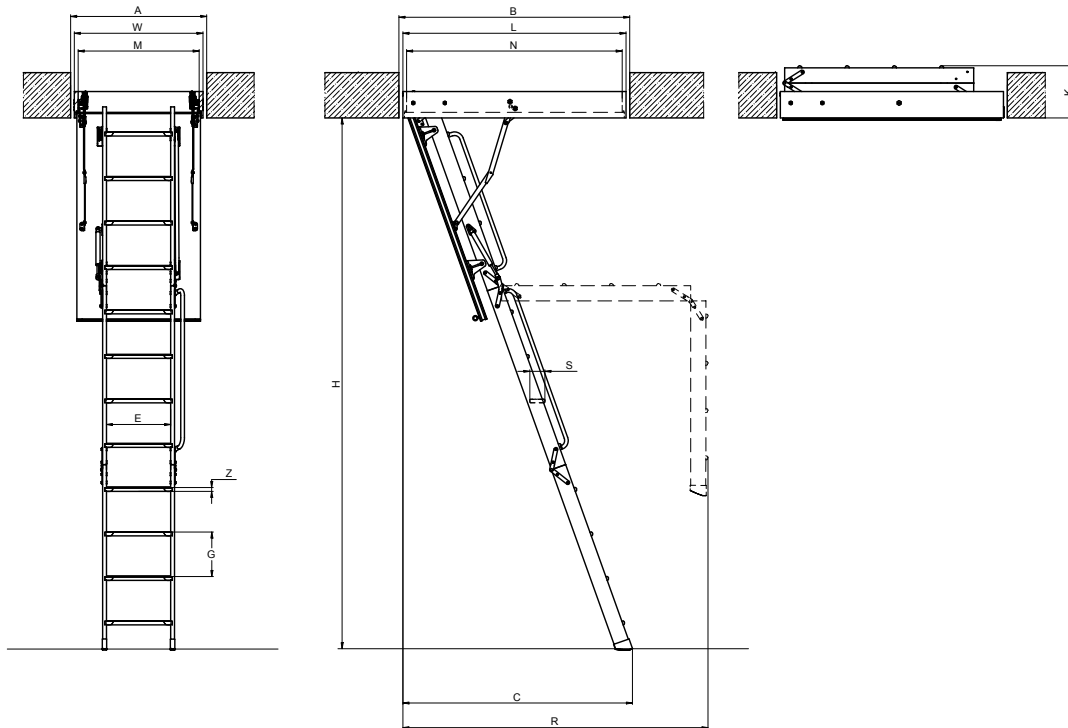


fully assembled, prepared for quick installation in the ceiling

The additional handrail adds significantly to overall safety and usage comfort.

The gas spring facilitates folding and unfolding the ladder.

Technical specification
maximum loading 160 kg
heat transmission coefficient $U_{LOFT LADDER}$ 1.1 W/m²K
insulation thickness 3 cm
hatch thickness 3.6 cm



LOFT LADDER DIMENSIONS

Ceiling opening dimensions [cm]	AxB	60x120	70x120	70x130	70x140	60x130	70x130	70x140
Room height [cm]	H	280				305		
Box external dimensions [cm]	WxL	58 x 118	68 x 118	68 x 128	68 x 138	58 x 128	68 x 128	68 x 138
Box internal dimensions [cm]	MxN	43,6 x 114	53,6 x 114	53,6 x 124	53,6 x 134	43,6 x 124	53,6 x 124	53,6 x 134
Folded ladder height [cm]	K	34						
Swing space [cm]	R	164				179		
Distance after ladder unfolding [cm]	C	122				130		
Box height [cm]		14						

LADDER PARAMETERS

Tread length E [cm]	Tread width S [cm]	Tread thickness Z [cm]	Distance between treads G [cm]
34	8	2	25

LOFT LADDER DIMENSIONS

Commercial sizes [cm]		60x120	70x120	70x130	70x140	60x130	70x130	70x140
Room height [cm]	H	280				305		

order processing time 15 working days

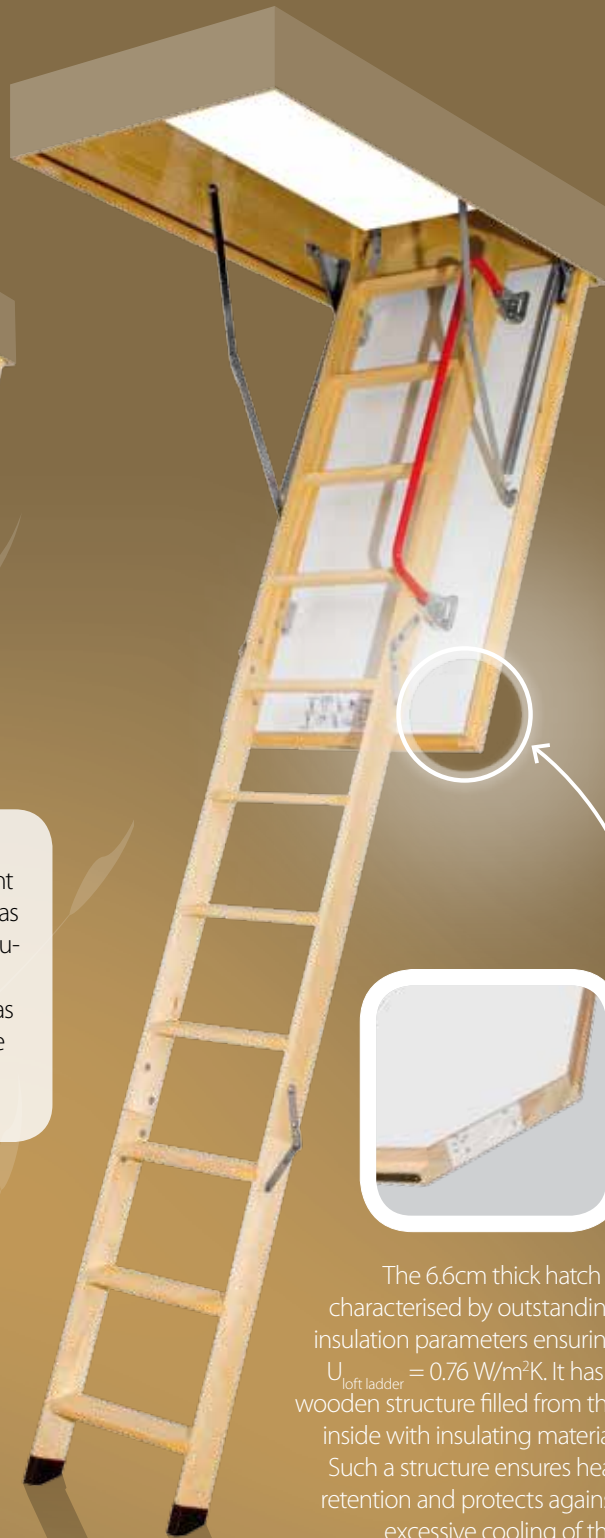
Loft ladders available only in sizes specified above.



WOODEN FOLDING SECTION LOFT LADDERS

LTK
THERMO

U = 0.76
W/m²K



The **LTK Thermo** Loft Ladder is a highly insulated ladder intended for buildings with significant temperature differences between the living areas and non-habitable spaces in the loft. The structure is similar to that of the LWK Komfort Loft Ladder but features a highly insulated white hatch as standard. The frame height reaches 22cm inside the loft when fully closed.

The 6.6cm thick hatch is characterised by outstanding insulation parameters ensuring $U_{\text{loft ladder}} = 0.76 \text{ W/m}^2\text{K}$. It has a wooden structure filled from the inside with insulating material. Such a structure ensures heat retention and protects against excessive cooling of the habitable loft spaces.

FEATURES



stile ends



white hatch



handrail



treads protruding from stringers



possibility of installing additional accessories (balustrade, slats, upper hatch)



3 year
warranty

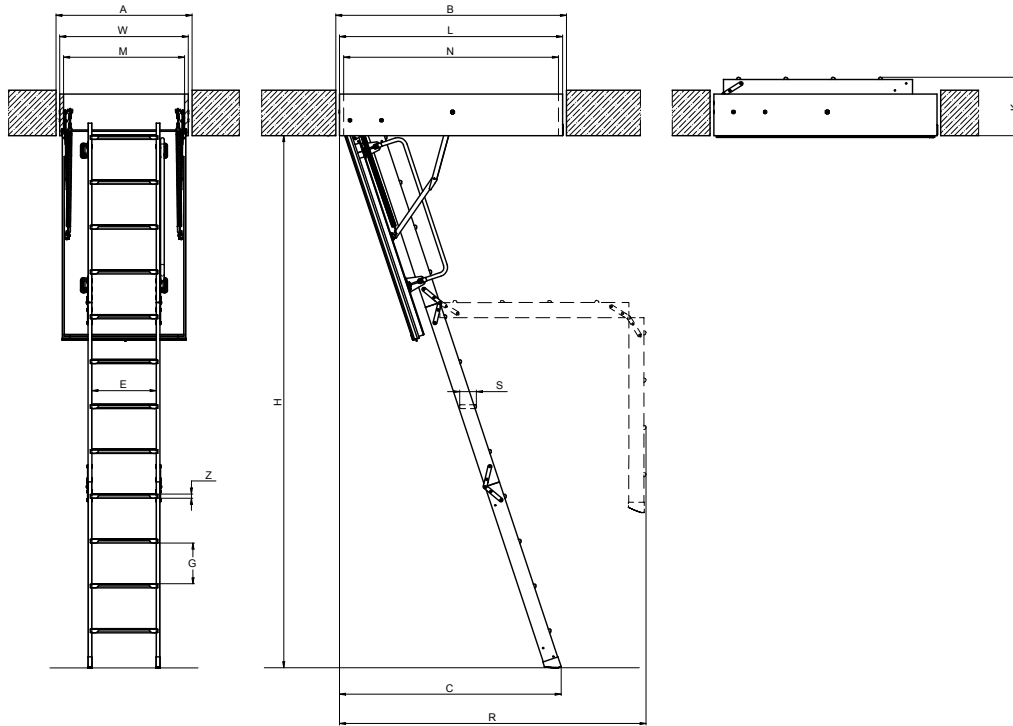


fully assembled and ready
for quick installation in the ceiling

Satisfies the requirements of EN 14975

Technical specification
maximum loading 160 kg
heat transmission coefficient $U_{\text{LOFT LADDER}} = 0.76 \text{ W/m}^2\text{K}$
insulation thickness 6 cm
hatch thickness 6.6 cm

4th the highest tightness class as per EN 12207



LOFT LADDER DIMENSIONS

Ceiling opening dimensions [cm]	AxB	60x120	70x120	70x130	70x140
Room height [cm]	H	280			
Box external dimensions [cm]	WxL	58 x 118,4	68 x 118,4	68 x 128,4	68x138,4
Box internal dimensions [cm]	MxN	54 x 114	64 x 114	64 x 124	64x134
Folded ladder height [cm]	K	37			
Swing space [cm]	R	164		167	
Distance after ladder unfolding [cm]	C	118		121	
Box height [cm]		22			

LADDER PARAMETERS

Tread length E [cm]	Tread width S [cm]	Tread thickness Z [cm]	Distance between treads G [cm]
34	8	2	25

LOFT LADDER DIMENSIONS

Commercial sizes [cm]		60x120	70x120	70x130	70x140
Room height [cm]	H	280			

order processing time 10 working days

Loft ladders available only in sizes specified above.

WOODEN
LOFT LADDERS



WOODEN FOLDING SECTION LOFT LADDERS



The **LWF Fire-Resistant Loft Ladder** acts as a blaze-block in the event of fire inside the building. Thanks to its high fire-resistant properties, **(EI2: 30 min)**, the LWF is perfect for installations subject to stipulations as specified in the building regulations. The unique special unloading mechanism eliminates the need for a lock.



The loft ladder hatch is equipped with an expanding seal which under the influence of high temperature increases its volume and prevents the smoke from entering the fire free storey.

FEATURES



stile ends



white hatch



handrail



treads protruding from stringers



possibility of installing additional accessories (balustrade, slats, upper hatch)



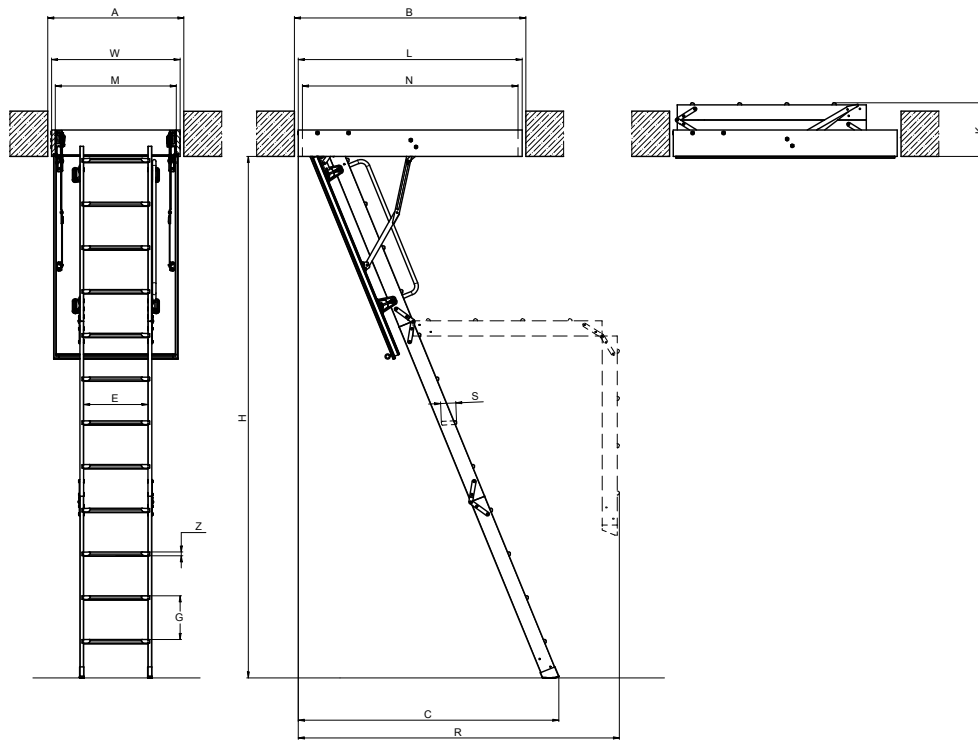
3 year warranty



fully assembled and ready for quick installation in the ceiling

Satisfies the requirements of EN 14975 and EN 1363-1

Technical specification
maximum loading: 160 kg
fire-resistance EI₂: 30 minutes
insulation thickness: 3 cm
hatch thickness: 4.2 cm



LOFT LADDER DIMENSIONS

Ceiling opening dimensions [cm]	AxB	60x120	70x120	70x130	70x140	86x130	70x140	70x130	86x130
Room height [cm]	H	280				305			
Box external dimensions [cm]	WxL	58 x 118,4	68 x 118,4	68 x 128,4	68 x 138,4	84x 128,4	68 x 128,4	68 x 138,4	84x 128,4
Box internal dimensions [cm]	MxN	43,6 x 114	53,6 x 114	53,6 x 124	53,6 x 134	69,6 x 124	53,6 x 134	53,6 x 124	69,6 x 124
Folded ladder height [cm]	K	35							
Swing space [cm]	R	172		177		194			
Distance after ladder unfolding [cm]	C	140		152		163			
Box height [cm]		14							

LADDER PARAMETERS

Tread length E [cm]	Tread width S [cm]	Tread thickness Z [cm]	Distance between treads G [cm]
34	8	2	25

LOFT LADDER DIMENSIONS

Commercial sizes [cm]		60x120	70x120	70x130	70x140	86x130	70x140	70x130	86x130*
Room height [cm]	H	280				305			

order processing time 10 working days

ladders available only in above mentioned sizes

WOODEN
LOFT LADDERS



SLIDING SECTION LOFT LADDER

LDK

U=1.1
W/m²K



The **LDK** Loft Ladder is a double-section loft ladder with a slidable lower section. Its structure resembles that of folding loft ladders. The primary difference in the operation of the LDK is that the longer bottom section simply slides up into the loft space, eliminating the swing space required on the landing for unfolding the ladder. The structure of the double-section loft ladder makes it possible to set the ladder deeper in the ceiling.

FEATURES



white hatch



handrail



steps protruding from stringers



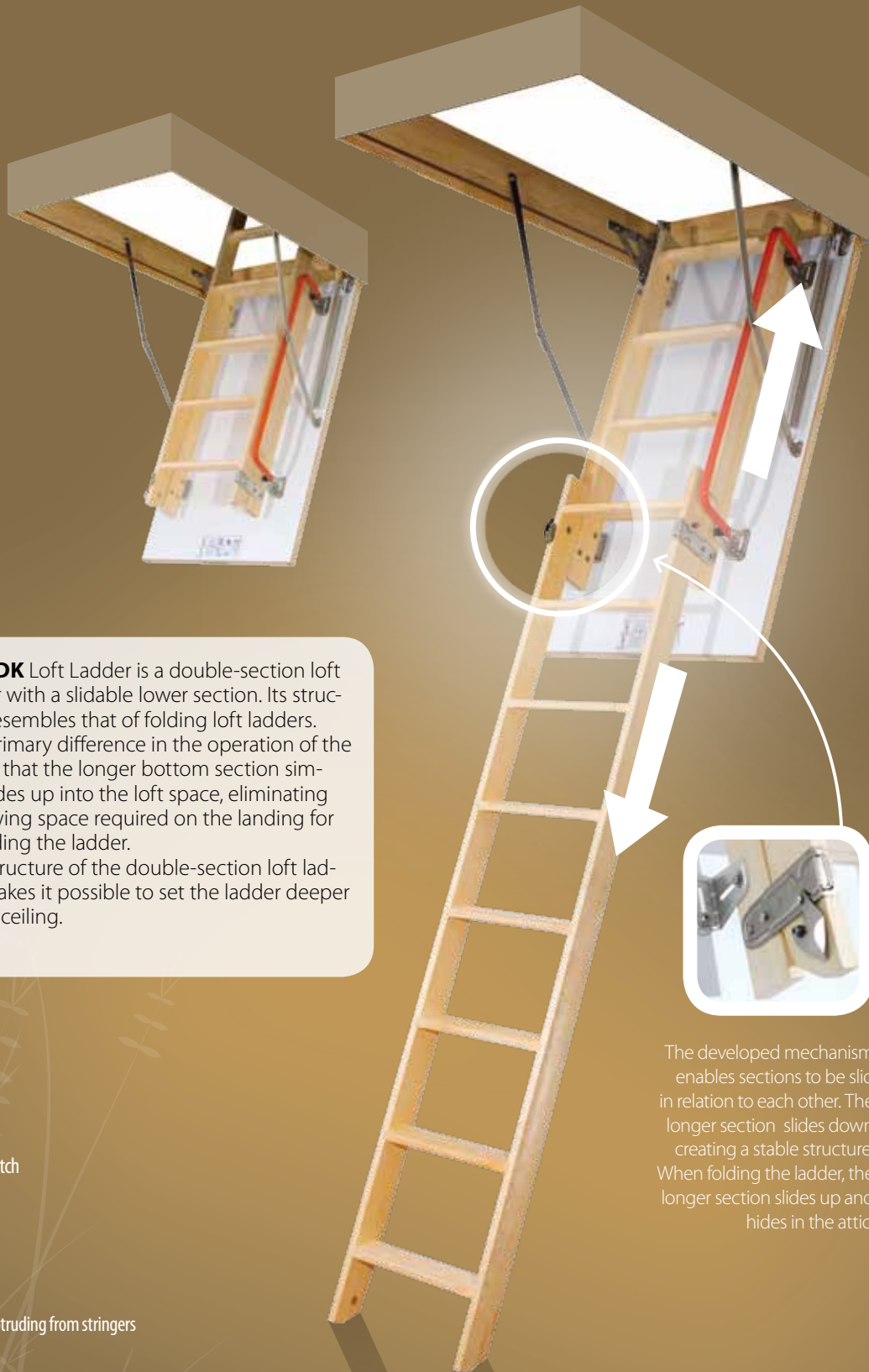
possibility of additional accessory installation
(balustrade, slats, stile ends, upper hatch)



3 year
warranty



fully assembled and ready
for quick installation in the ceiling

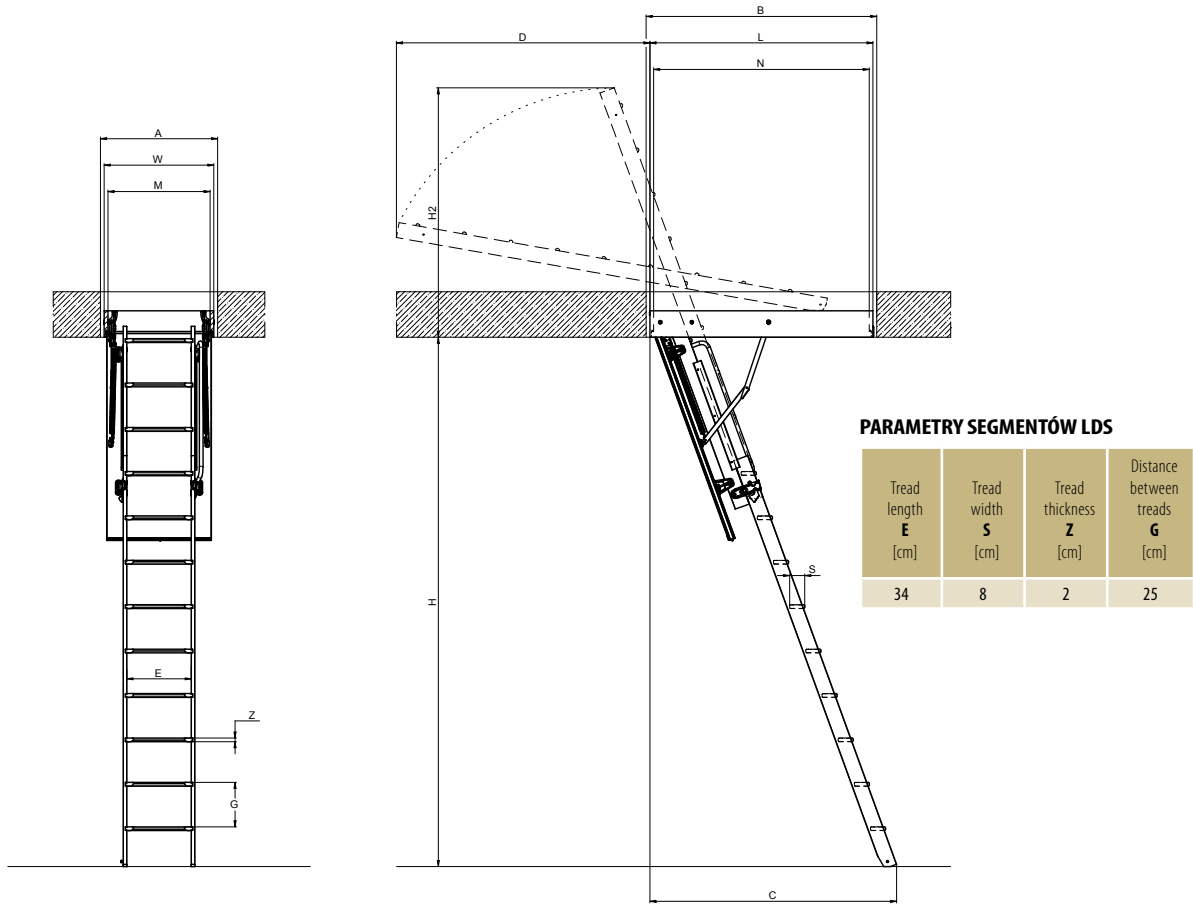


The developed mechanism enables sections to be slid in relation to each other. The longer section slides down creating a stable structure. When folding the ladder, the longer section slides up and hides in the attic.

Satisfies the requirements of EN 14975

Technical specification

maximum loading 160 kg
heat transmission coefficient $U_{LOFT LADDER}$ 1.1 W/m²K
insulation thickness 3 cm
hatch thickness 3.6 cm



LOFT LADDER DIMENSIONS

Ceiling opening dimensions [cm]	AxB	60x120	70x120	70x130	70x140	60x120	70x120	70x130	70x140	60x120	70x120	70x130	70x140
Room height [cm]	H	280				305				335			
Sliding section LDS		LDS-9				LDS-10				LDS-12			
Box external dimensions [cm]	W x L	58 x 118,4	68 x 118,4	68 x 128,4	68 x 138,4	58 x 118,4	68 x 118,4	68 x 128,4	68 x 138,4	58 x 118,4	68 x 118,4	68 x 128,4	68 x 138,4
Internal dimensions of the box [cm]	M x N	43,6 x 114	53,6 x 114	53,6 x 124	53,6 x 134	43,6 x 124	43,6 x 134	53,6 x 124	53,6 x 134	43,6 x 114	53,6 x 114	53,6 x 124	53,6 x 134
Distance of drop [cm]	C	130				140				150			
Max height of the loft required [cm]	H2	130				155				184			
Max length of the loft required with hatch door closed [cm]	D	129				155				185			
Box height [cm]						14							
Max thickness of the ceiling [cm]						31,5							

LOFT LADDER DIMENSIONS*

Loft ladder's comercial size [cm]		60x120	70x120	70x130	70x140	60x120	70x120	70x130	70x140	60x120	70x120	70x130	70x140
Room height [cm]	H	280				305				335			

order processing time 10 working days

METAL SECTION
LOFT LADDERS



BOX

The Loft Ladder box is made of wood. Within the milled section is situated a peripheral seal. Once the hatch is closed, this seal ensures proper tightness of the entire box structure. The special box design enables quick and easy fitting of finishing lining or architrave.

HATCH UNLOADING MECHANISM

Operation of the Loft Ladder is significantly improved because of Fakro's unique unloading mechanism. Once unlocked, the hatch opens slowly without any potential danger to the user. Once fully opened, this mechanism will also hold the hatch in position, preventing it from slamming shut.

HARDWARE

The patented corner hinge re-enforces the rigidity of the box and prevents any changes in the diagonal lengths. Thanks to this, the box is not affected by any deformations and can be operated trouble free once installed.

HATCH

The hatch is manufactured from wood and the applied insulation strip protects against heat loss from the ladder. The external aesthetically pleasing hatch finish is smooth with no further visible fixing elements ensuring that the Loft Ladder goes well with any interior design.

TREADS

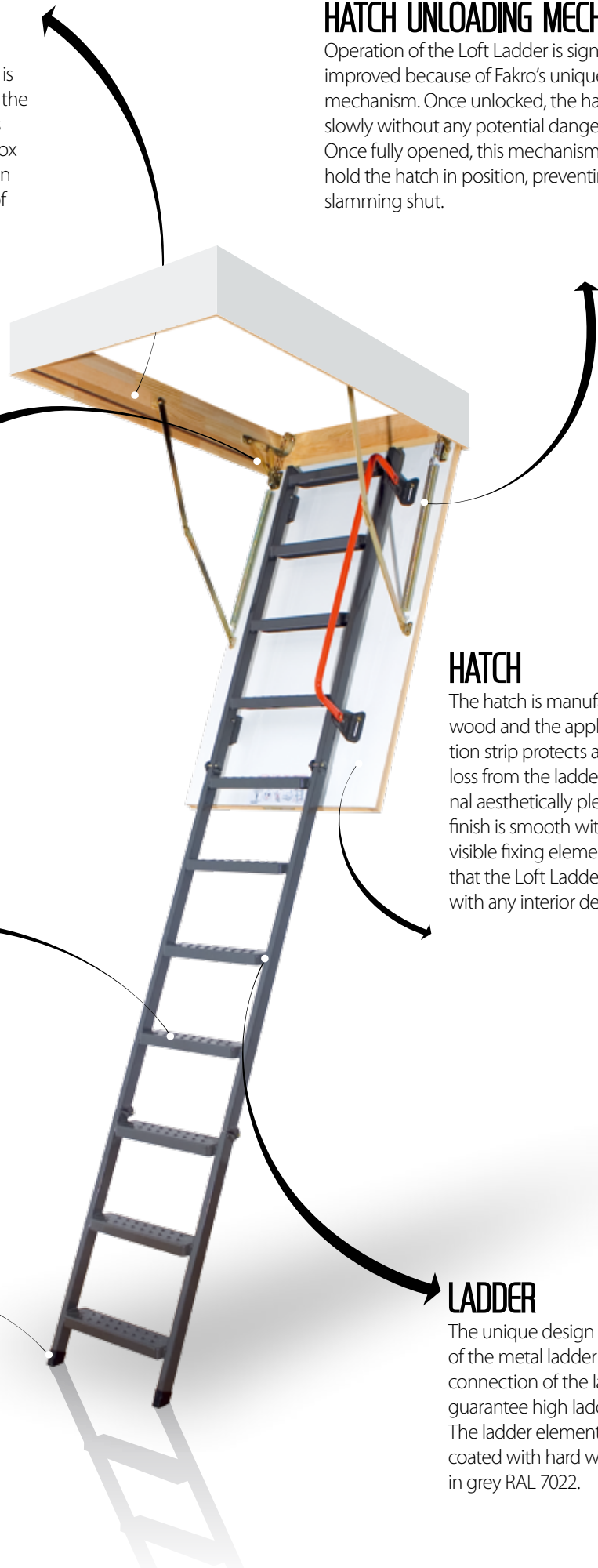
The specially embossed pattern on the tread surface protects the user from accidental slipping while using the ladder.

STILE ENDS

Made from Plastic, these protect the floor surface from scratches and in addition add to the overall Ladder stability.

LADDER

The unique design and structure of the metal ladder and double connection of the ladder hinges guarantee high ladder strength. The ladder elements are powder-coated with hard wearing lacquer in grey RAL 7022.



WOODEN
LOFT LADDERS



FOLDING METAL SECTION LOFT LADDER

LWM

U=1.1
W/m²K



The **LWM** Loft Ladder is a 3-section ladder where both the hatch and box are made of pine wood. The ladder itself is made of powder-coated metal RAL 7022. The hatch colour is beige, allowing it to be veneered or painted in any colour to match the interior design.

FEATURES



stile ends



beige hatch



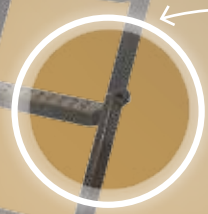
Teads protruding from stringers



possibility of installing additional accessories (balustrade, slats, handrail, upper hatch)



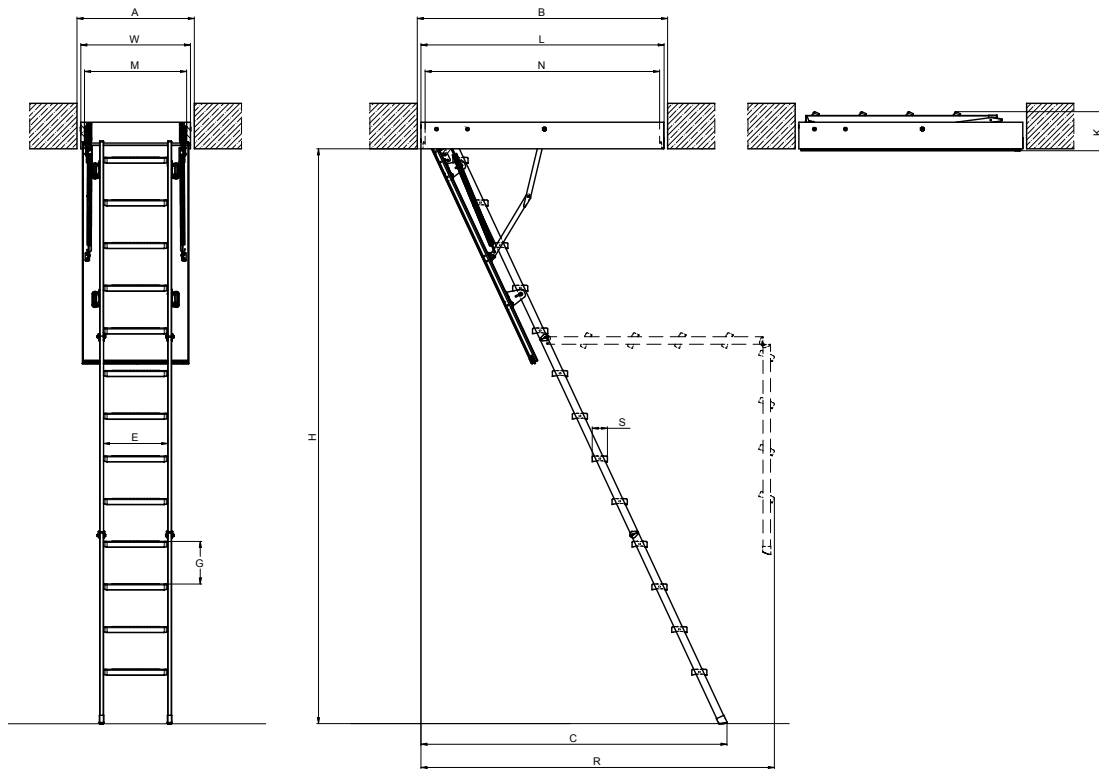
fully assembled and ready for quick installation in the ceiling



The use of metal ladder with special hinge structure guarantees high durability – maximum loading 200kg

Satisfies the requirements of EN 14975

Technical specification
permissible loading 200 kg
heat transmission coefficient $U_{LOFT LADDER}$ 1.1 W/m²K
insulation thickness 3 cm
hatch thickness 3.6 cm



LOFT LADDER DIMENSIONS

LOFT LADDER DIMENSIONS [cm]	AxB	60x120	70x120	70x130	70x140	60x130	70x130	70x140
Room height [cm]	H	280				305		
Box external dimensions [cm]	WxL	58 x 118,4	68 x 118,4	68 x 128,4	68 x 138,4	58 x 128,4	68 x 128,4	68 x 138,4
Box internal dimensions [cm]	MxN	54 x 114	64 x 114	64 x 124	64 x 134	54 x 124	64 x 124	64 x 134
Folded ladder height [cm]	K	25,5						
Swing space [cm]	R	157				175		
Distance after ladder unfolding [cm]	C	118,5				127		
Box height [cm]		14						

LADDER PARAMETERS

Tread length E [cm]	Tread width S [cm]	Distance between treads G [cm]
34	8	25

LOFT LADDER DIMENSIONS

Loft ladder's comercial size [cm]		60x120	70x120	70x130	70x140	60x130	70x130	70x140
Room height [cm]	H	280				305		

- order processing time 10 working days
- order processing time 15 working days

Loft ladders available only in sizes specified above.

WOODEN
LOFT LADDERS

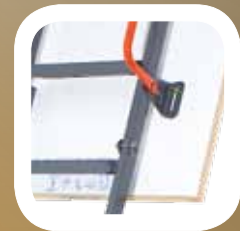


LWM SEGMENT LOFT LADDER WITH METAL HANDRAIL

LWM-K



The LWM-K Loft Ladder unlike the LWM model, is equipped with a white hatch and red safety handrail. The safety handrail is attached to the ladder brackets and significantly increases ease of use of the ladder whilst decreasing the user's risk of accident.



Hatch in white and handrail

FEATURES



stile ends



white hatch



handrail



treads protruding from stringers



possibility of installing additional accessories (handrail, slats, upper hatch)



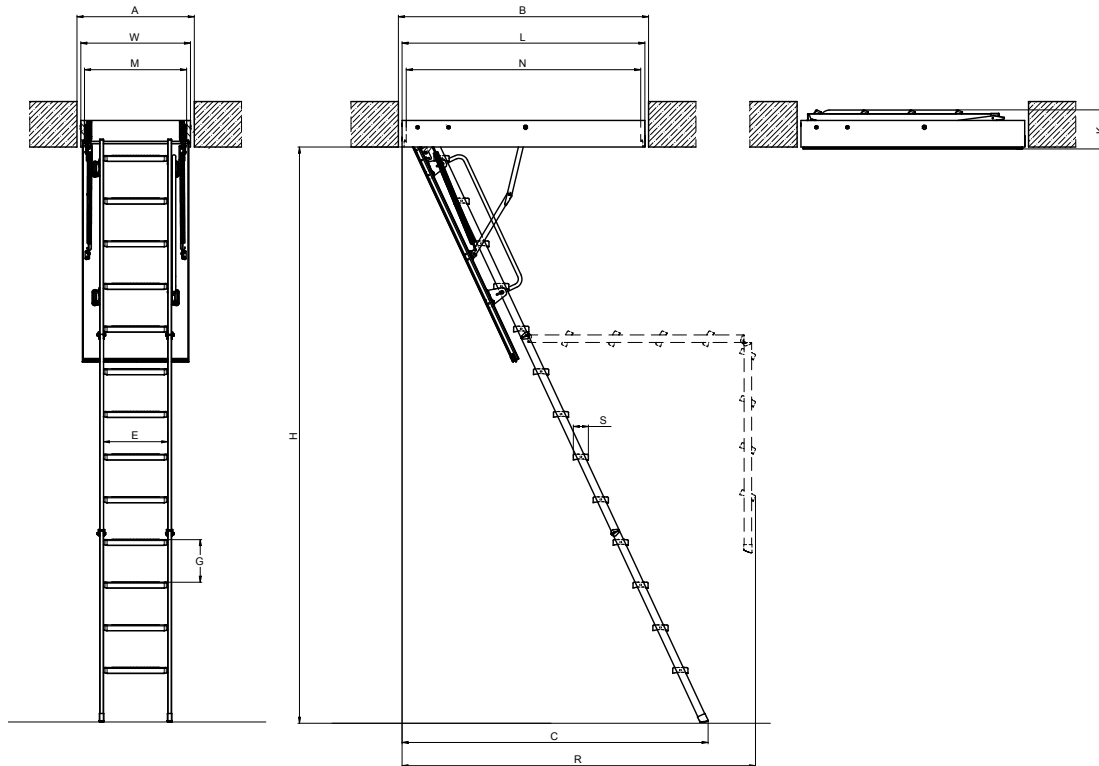
3 year warranty



fully assembled and ready for quick installation in the ceiling

Satisfy the requirements of EN 14975

Technical specification
permissible loading 200 kg
heat transmittance coefficient $U_{LOFT LADDER}$ 1.1 W/m²K
insulation thickness 3 cm
hatch thickness 3.6 cm



LOFT LADDER DIMENSIONS

Ceiling opening dimensions [cm]	AxB	60x120	70x120	70x130	70x140	60x130	70x130	70x140
Room height [cm]	H	280				305		
Box external dimensions [cm]	WxL	58 x 118,4	68 x 118,4	68 x 128,4	68 x 138,4	58 x 128,4	68 x 128,4	68 x 138,4
Box internal dimensions [cm]	MxN	54 x 114	64 x 114	64 x 124	64 x 134	54 x 124	64 x 124	64 x 134
Folded ladder height [cm]	K	25,5						
Swing space [cm]	R	157				175		
Distance after ladder unfolding [cm]	C	118,5				127		
Box height [cm]		14						

LADDER PARAMETERS

Tread length E [cm]	Tread width S [cm]	Distance between treads G [cm]
34	8	25

LOFT LADDER DIMENSIONS

Loft ladder's comercial size [cm]		60x120	70x120	70x130	70x140	60x130	70x130	70x140
Room height [cm]	H	280				305		

Order processing time

Loft ladders available only in sizes specified above

SECTION LOFT LADDERS – LOFT LADDER ACCESSORIES

LOFT BALUSTRADE **LXB**

The loft balustrade protects the user from falling through the opening in the ceiling and it also facilitates an easier descent on the ladder. Made from pine wood, the balustrade is mounted onto the ladder box within the attic and is strengthened with flat-bars on the entrance side. Available in size 70x130cm only, the balustrade can be cut to suit smaller ladder sizes if required. For sizes greater than 70x130cm, the supplier will require the exact size prior to ordering. The balustrade height inside the loft is 95cm.



Balustrade sizes 70x130x95 [cm]

order processing time 3 working days
non-standard sizes- 20 working days

STILE ENDS **LXS**

The brown stile ends are finishing elements mounted on the base of the ladder, adding a smart touch to its appearance. They add to the ladder's stability and are made from specially selected material to protect the floor from being scratched.

They are easy to install and they can be mounted on ladders already in use.



order processing time 3 working days

INSTALLATION BRACKETS **LXK**

Installation brackets facilitate Loft Ladder installation in the ceiling. Installed in the corners of the box, they add to its overall rigidity ensuring equal lengths of diagonals. Bolts are screwed into brackets guaranteeing quick and accurate levelling of the Loft Ladder in the ceiling. The quick-installation brackets are powder coated in RAL 7022 as standard. Thanks to their simple structure, they can be screwed to all loft ladder models. Adjusted to ceilings up to 35cm thick for all section loft ladders except for LTK for which the maximum ceiling thickness is 43cm.



order processing time 3 working days

UPPER HATCH **LXW**

The upper hatch prevents attic dust from accumulating on the hatch and steps of the closed ladder. It improves the overall insulating parameters and tightness of the ladder on which it is installed. The upper hatch consists of a frame with 3.6cm thick hatch door, hardware, installation brackets, gas piston and rotational closing handle. Additionally, the frame is equipped with a peripheral gasket. The height of the box is 12cm. The hatch is available in standard dimensions for all models of FAKRO Loft Ladders.



**Available
in the second half of 2010.**

LINING LXL

Lining is designed to finish the installation of the loft ladder and to cover gaps in the ceiling which remain after the fitting process. The lining elements are made from solid pine wood (LXL lining) or PVC (LXL-PVC lining). This quick and simple fitting process ensures a fast, aesthetically pleasing finish of the installed Loft Ladder. In the case of PVC lining, connection with the box does not require any nails. The LXL-PVC lining is available in white and compatible solely with the loft ladders manufactured after March 2009 (except for LWF). Properly selected width (3.5cm) of LXL and LXL-PVC lining provides the impression of a professional installation of the ladder.

LXL



LXL - PVC**



order processing time 3 working days
non-standard sizes - 20 working days

	Loft ladder models		
	LWS/LWK/LTK/LWL/LWF	LDK	LWM/LWM-K
LXL lining	70 x 140 cm*		
	LWS/LWK/LTK/LWL	LDK	LWM/LWM-K
LXL-PVC lining	60 / 70 x 120 cm oraz 86 x 140 cm*		

* - for smaller loft ladder sizes requires cutting

** Available in the second half of 2010

HANDRAIL LXH

The metal handrail makes climbing the ladder easier, hence increasing user comfort and safety. The LXH handrail can be mounted onto the upper as well as lower ladder sections. The table below will help to select the correct handrail for a given Loft Ladder model.



commercial sizes 50 or 75 [cm]

order processing time 10 working days

	Room height	Loft ladder model		
		LWS/LWK/LTK/LWF	LDK	LWM/LWM-K
Handrail mounted onto the upper ladder segment.	Inapplicable	LXH 50/17 or LXH 75/17*	LXH 75/16	LXH 75/14
Handrail mounted onto the middle ladder segment**	280	LXH 87/9	Inapplicable	
	305	LXH 99/9		
	325	LXH 106/9		

* - handrails LXH 50/17 are installed to ladder with boxes up to 100cm in length, whereas ladders equipped with boxes over 100cm in length are fitted with handrails LXH 75/17

** - does not concern 4-section loft ladders.

Non-standard sizes of LWS and LWK loft ladders

Co-relation between opening length and room height		Number of segments drabinki	Ceiling opening width [cm]	External width of ladder section [cm]
Room height [cm]	Opening length in the ceiling [cm]			
280	94 ÷ 140	4	50 ÷ 55	34
			56 ÷ 82	38
280	111 ÷ 140	3	50 ÷ 55	34
			56 ÷ 82	38
290	112 ÷ 140	4	50 ÷ 55	34
			56 ÷ 82	38
305	130 ÷ 140	3	50 ÷ 55	34
			56 ÷ 82	38
325	120 ÷ 140	4	50 ÷ 55	34
			56 ÷ 82	38

Loft ladders narrower than 55cm (opening width in the ceiling) cannot be fitted with handrails.

When ordering loft ladders in non-standard sizes, it is necessary to provide the real opening dimensions in the ceiling.

The loft ladder dimensions will be smaller to provide for installation clearance.

Order processing time 20 working days

SCISSORS LOFT LADDERS



BOX

The box can be made of wood, metal, or a metal framework combined with wooden box. The box is equipped with a peripheral seal and lining as standard. Proper box structure allows for quick setting of the ladder in the ceiling and facilitates correct levelling.

HATCH UNLOADING MECHANISM

MECHANISM

Operation of the Loft Ladder is significantly improved because of Fakro's unique unloading mechanism. Once unlocked, the hatch opens slowly without any potential danger to the user. Once fully opened, this mechanism will also hold the hatch in position, preventing it from slamming shut.

HARDWARE

The patented corner hinge re-enforces the rigidity of the box and prevents any changes in the diagonal lengths. Thanks to this, the box is not affected by any deformations and can be operated trouble free once installed.

HATCH

Standard Scissors Loft Ladders are equipped with white insulated or fire-resistant hatches, made of wood, or wood and metal. The external hatch surface is smooth without any visible fixing elements.

TREADS

The specially embossed pattern on the tread surface protects the user from accidental slipping while using the ladder.

LADDER

The Scissors Ladder structure makes it possible to easily adjust its length to the room height without the need for cutting. Additionally, it enables folding the ladder to smaller sizes and therefore allows installation in smaller ceiling openings (the smallest ladder size being 50x78.6cm). The elegant and modern style of the Scissors Loft Ladder is achieved by the "S"-shaped stringers which may also serve as handrails.



SCISSORS
LOFT LADDERS



LST SCISSORS LOFT LADDER WITH HEAT-INSULATING HATCH

LST

U=1.1
W/m²K



The **LST** Loft Ladder is a Scissors Loft Ladder equipped with a 3.6cm thick white insulated hatch as standard. The box structure is made of wood and features quick-installation brackets as standard. The hatch unloading mechanism supports the unit in any opening position in addition to when fully opened. This guarantees safe ladder folding and unfolding. Additionally, its structure eliminates the need for a lock. The ladder itself is powder-coated in grey RAL 7022. Overall floor-ceiling ladder height can be increased to a maximum 330cm by adding two LSS segments.



wooden box with finishing lining and quick-installation brackets

FEATURES



white hatch box with lining



"S"-shaped stringers



possibility of adding or detaching segments



possibility of additional accessory installation (balustrade, upper hatch)

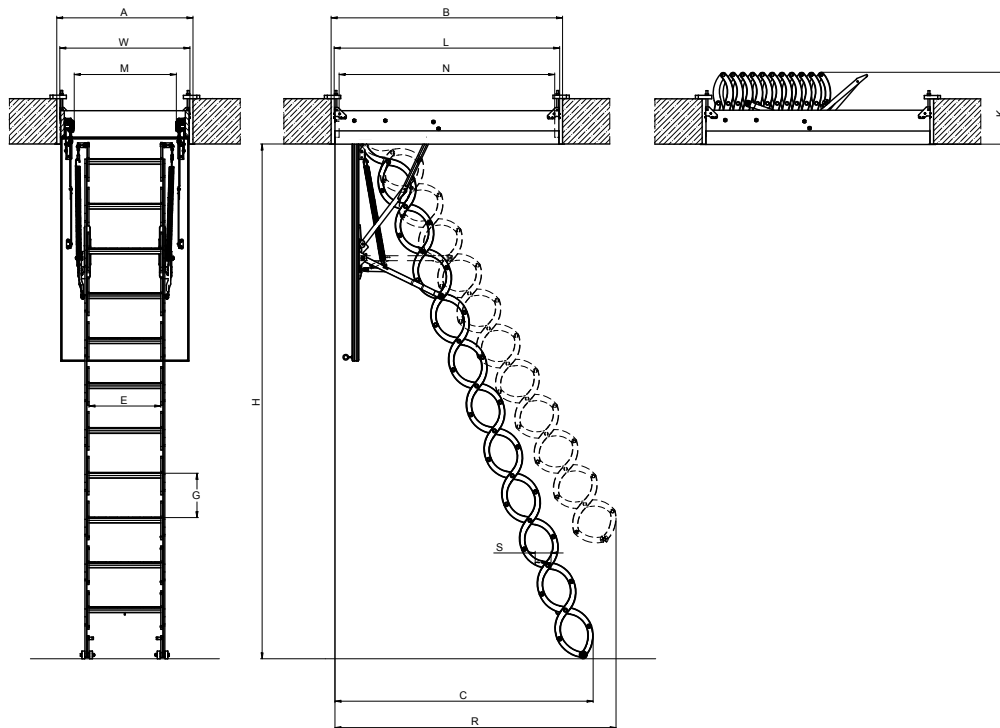


fully assembled and ready for quick installation in the ceiling

Satisfies the requirements of EN 14975

Technical specification

maximum loading 200 kg
heat transmission coefficient $U_{LOFT LADDER}$ 1.1 W/m²K
insulation thickness 3 cm
hatch thickness 3.6 cm



LADDER PARAMETERS

		50x...	60x...	70x...
Tread length [cm]	E	26	30	38
Tread width [cm]	S	8		
Distance between treads [cm]	G	25		
Standard quantity of treads [pcs.]		11		

LOFT LADDER DIMENSIONS

		Standard ladder length					Ladder shorter by 1 tread		Ladder longer by 1 tread		Ladder longer by 2 tread		
		AxB	51x80	60x90	60x120	70x80	70x120	230	240	290	300	310	320
Ceiling opening dimensions [cm]	AxB	51x80	60x90	60x120	70x80	70x120							
Room height [cm]	H	250 - 280											
Box external dimensions [cm]	WxL	51x79,4	59x89,4	59x119,4	69x79,4	69x119,4							
Box internal dimensions [cm]	MxN	36 x 74	44 x 84	44 x 114	54 x 74	54 x 114							
Folded ladder height [cm]	K	38,2											
Swing space [cm]	R	150											
Distance after ladder unfolding [cm]	C	146-134											
Box height [cm]		18											
The loft ladder sizes and dimensions not included in the table are identical to those of 250-280cm high loft ladders.													
		140		160		170							
		135	131	150	145	160	156	150					
		18											

LOFT LADDER DIMENSIONS

Commercial sizes [cm]		51x80	60x90	60x120	70x80	70x120
Room height [cm]	H	250 - 280				

order processing time 10 working days

Loft ladders available only in sizes specified above



SCISSORS LOFT LADDERS

LSZ

U=1.1
W/m²K



The **LSZ** Loft Ladder structure is the same as the LST model except for the box structure which consists of a metal framework integrated with wooden box and quick-installation bracket. Similarly to the LST loft ladder, the hatch unloading mechanism holds the unit in any position when fully opened. This guarantees safe folding and unfolding the ladder. The unique special unloading mechanism eliminates the need for a lock. The overall floor-ceiling ladder height can be increased to a maximum 330cm by adding two LSS segments.



metal frame integrated with wooden box with lining and quick-installation brackets

FEATURES



white hatch box with lining



"S"-shaped ladder stringer



possibility of adding or detaching segments



possibility of additional accessory installation (balustrade, upper hatch)

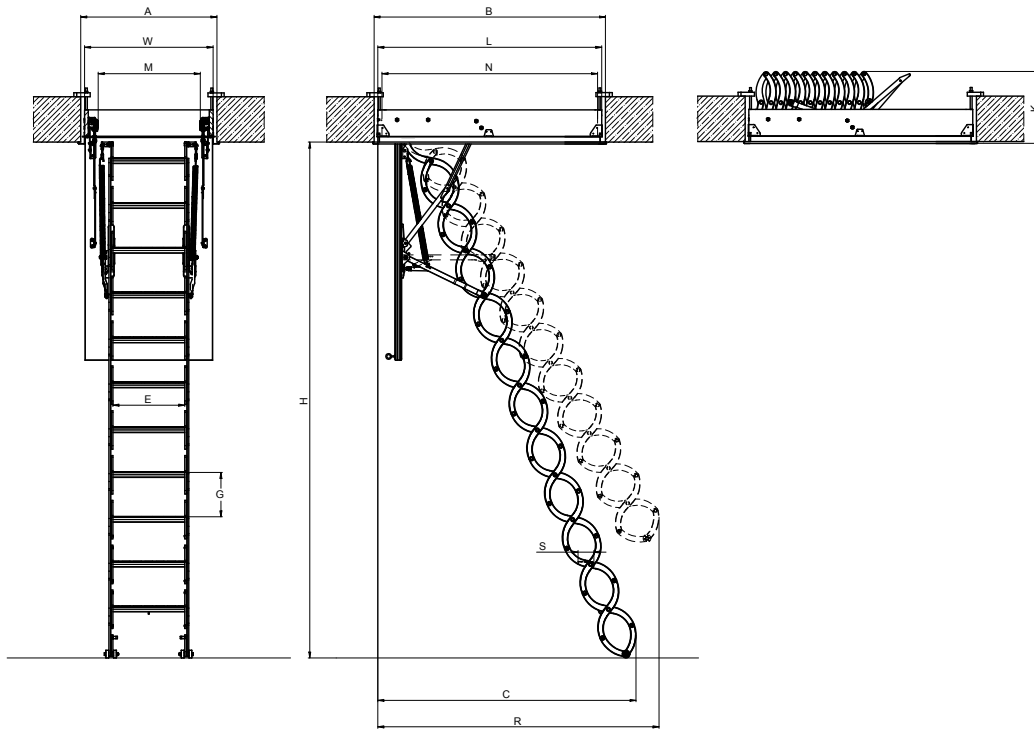


fully assembled and ready for quick installation in the ceiling

Satisfy the requirements of EN 14975

Technical specification

maximum loading 200 kg
heat transmission coefficient $U_{\text{LOFT LADDER}}$ 1.1 W/m²K
insulation thickness 3 cm
hatch thickness 3.6 cm



LADDER PARAMETERS

		50x...	60x...	70x...
Tread length [cm]	E	26	30	38
Tread width [cm]	S	8		
Distance between treads [cm]	G	25		
Standard quantity of treads [pcs]		11		

LOFT LADDER DIMENSIONS

		Standard ladder length			Ladder shorter by 1 tread		Ladder longer by 1 tread		Ladder longer by 2 tread					
		AxB	50x80	70x80	70x120	230	240	290	300	310	320	330		
Ceiling opening dimensions[cm]	AxB													
Room height [cm]	H		250 -280											
Box external dimensions [cm]	WxL	51x79,4	69x79,4	69x119,4	The loft ladder sizes and dimensions not included in the table are identical to that of 250-280cm long ladders.									
Box internal dimensions [cm]	MxN	36 x 74	54 x 74	54 x 114										
Folded ladder height [cm]	K	38,2												
Swing space [cm]	R	150										140	160	170
Distance after ladder unfolding [cm]	C	146 -134										135	131	150
Box height [cm]		18			18									

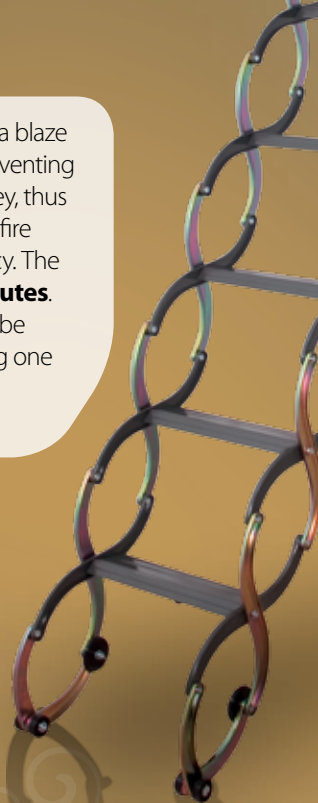
LOFT LADDER DIMENSIONS

Comercial sizes [cm]		50x80	70x80	70x120
Room height [cm]	H	250 - 280		

order processing time 10 working days

Loft ladder available only in sizes specified above

SCISSORS LOFT LADDERS



The **LSF** Fire-Resistant Loft Ladder acts as a blaze block in case of fire inside the building preventing the smoke from entering the fire-free storey, thus providing additional precious time for the fire services to arrive in the event of emergency. The Loft Ladder fire-resistance is **EI2 = 60 minutes**. The overall floor-ceiling ladder height can be increased to a maximum 320cm by adding one LSS segment.

The loft ladder hatch is equipped with an expanding seal, which under the influence of high temperature increases its volume and prevents the smoke and fire from spreading to the fire free storey.

Satisfy the requirements of EN14975

Technical specification

maximum loading 250 kg
fire resistance EI₂ 60 min.
hatch thickness 5.4 cm

FEATURES



white hatch
skrzynka z listwami wykończeniowymi



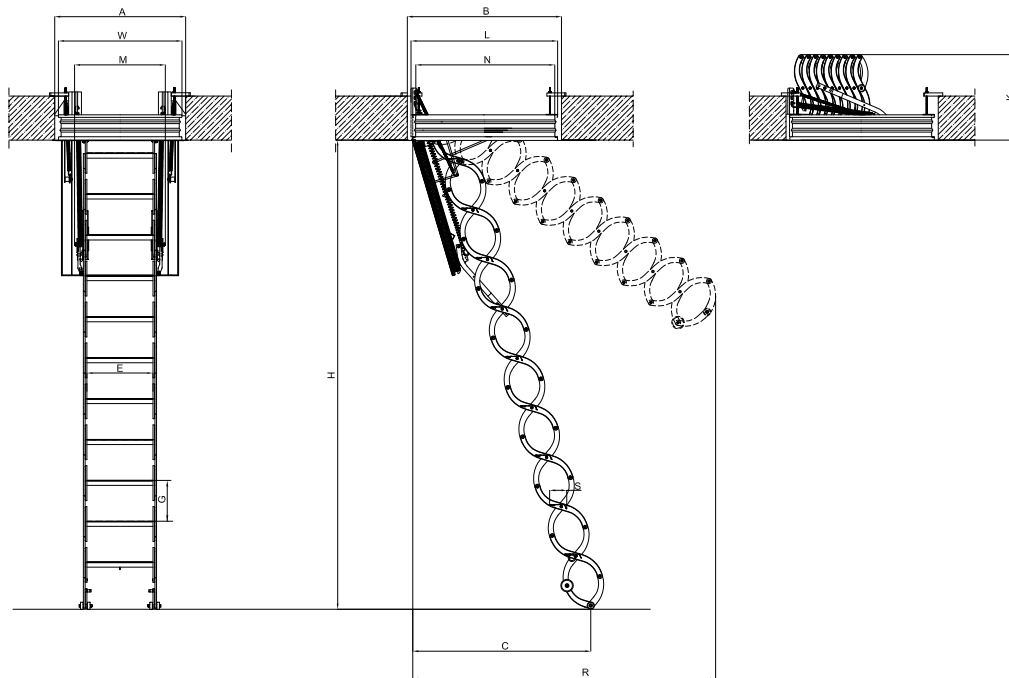
"S"-shaped ladder stringer



possibility of adding
or detaching segments



fully assembled and ready
for quick installation in the ceiling



LADDER PARAMETERS

		50x...	60x...	70x...
Tread length [cm]	E	30	32	40
Tread width [cm]	S	8		
Distance between treads [cm]	G	25		
Standard number of treads [pcs]		10		

LOFT LADDER DIMENSIONS

		Standard ladder length							Ladder shorter by 2 steps		Ladder shorter by 1 step		Ladder longer by 1 step		
		AxB	50x70	60x90	60x120	70x80	70x90	70x110	70x120	240	250	260	270	310	320
Ceiling opening dimensions [cm]	AxB	50x70	60x90	60x120	70x80	70x90	70x110	70x120							
Room height [cm]	H	280 - 300													
Box external dimensions [cm]	WxL	49x68,5	59x88,5	59x118,5	69x78,5	69x88,5	69x108,5	69x118,5							
Box internal dimensions [cm]	MxN	44,8 x 64,8	54,8 x 84,8	54,8x114,8	64,8 x 74,8	64,8x84,8	64,8x104,8	64,8x114,8							
Folded ladder height [cm]	K	40													
Swing space [cm]	R	175 - 185							165	160	165	170	200	210	
Distance after ladder unfolding [cm]	C	145 - 120							100	135	140	165	130	140	
Box height [cm]		14							14						

Ladder sizes and dimensions not included in table are identical with the ladders 280-300cm in height

LOFT LADDER DIMENSIONS

Commercial sizes [cm]	50x70	60x90	60x120	70x80	70x90	70x110	70x120
Room height H [cm]	250 - 280						

order processing time 10 working days

Loft ladders available only in sizes specified above

WOODEN
"MILLER"
STAIRCASE



STATIONARY STAIRCASE

MSU
UNIVERSAL

The **MSU Universal** "Miller" staircase is a fixed, non-folding staircase manufactured from solid spruce wood. Simple treads as well as carefully selected inclination angle guarantee comfortable ladder usage. Maximum drop for use of the MSU must not exceed 290cm. The external staircase width is 65cm. For comfort and safety, the additional MXH handrail can be obtained; This can be mounted on the left or right side of the stairs. The staircase is ready for quick installation and easy adjustment to the height of the room. After installation it can be painted or lacquered.



MXH safety handrail
mounted on the left or
right side

strong connections between
steps and ladder

FEATURES



treads flush with stringers



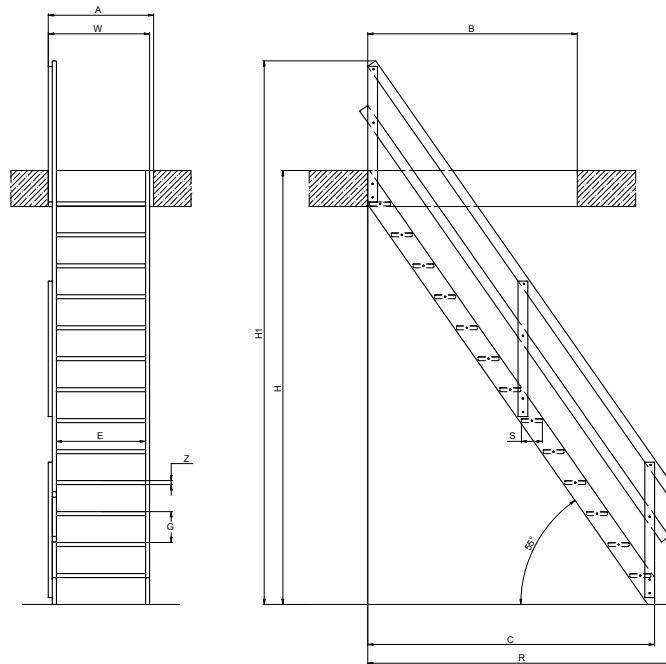
possibility of additional accessory installation



for DIY assembly

Technical specification

maximum loading 160 kg
inclination angle 55°



LOFT LADDER DIMENSIONS

		Standard staircase length	After cutting to the height				
Max. Room height [cm]	H	290	280	270	260	250	240
Height of installed staircase with handrail [cm]	H1	364	354	344	334	324	314
Minimum ceiling opening dimensions [cm]	AxB	70 x 145					
Area the staircase occupies on the floor [cm]	C	192	185	178	171	164	157
Area the staircase occupies on the floor with handrail [cm]	R	207	200	193	186	179	172
Staircase width [cm]	W	65					
Number of treads [pcs]		13	12	12	11	11	10
Distance between treads [cm]	G	25					
Tread thickness [cm]	Z	2,7					
Tread length [cm]	E	60					
Tread width [cm]	S	14					
Staircase inclination angle. [°]		55					

LOFT LADDER DIMENSIONS

Commercial sizes [cm]		70 x 145
Room height H [cm]	H	290

order processing time 10 working days

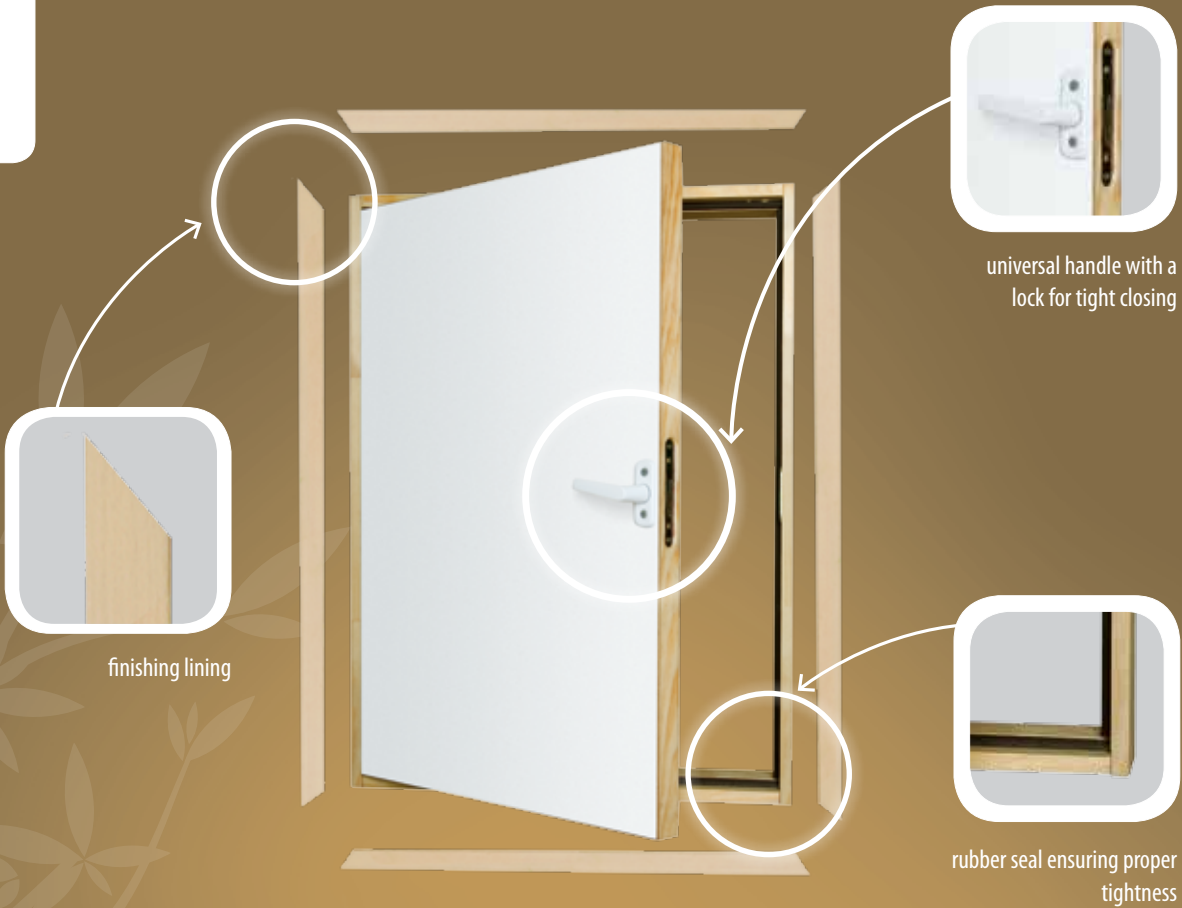
WOODEN
DOOR



L-SHAPED COMBINATION DOOR

DWK

The **DWK** L-Shaped Combination Doors are intended to be built into L-shaped walls and provide access to the unused space behind the L-shaped wall. Superb Thermo-Insulating parameters (**U=1.1 W/m²K**) along with high tightness keep heat-loss to a minimum. The L-shaped door may be installed in two versions of opening, (right or left), and are also equipped with 35mm thick lining as standard in natural colour. The 36mm thick insulated sash made as a wooden frame finished on both side with **DWK** white HDF panels.



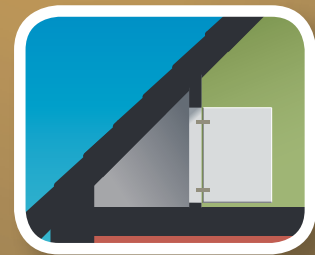
finishing lining



universal handle with a lock for tight closing



rubber seal ensuring proper tightness



Technical specification

heat transmission coefficient $U = 1.1 \text{ W/m}^2\text{K}$
insulation thickness 3 cm

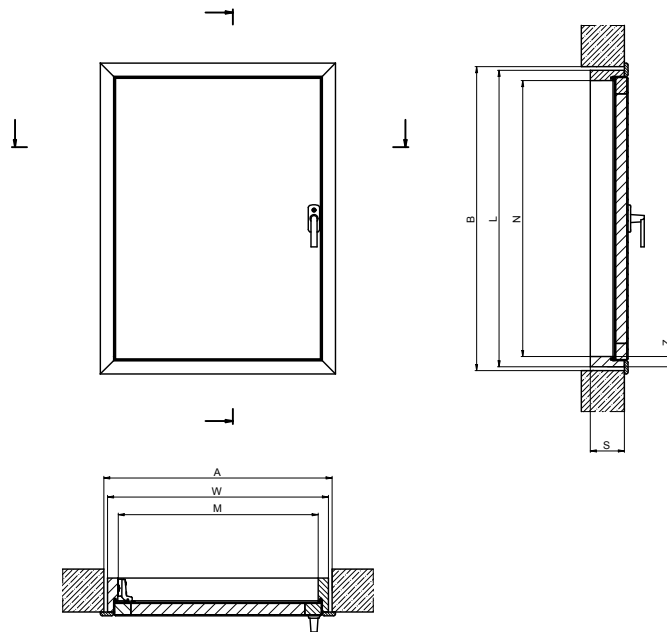
FEATURES



finishing lining



3 year
warranty



L-SHAPED DOORS DIMENSIONS

Opening dimensions [cm]	AxB	55x80	60x80	60x100	60x110	70x90	70x100	70x110
Door dimensions [cm]	WxL	53,4 x 78,4	58,4 x 78,4	58,4 x 98,4	58,4 x 108,4	68,4 x 88,4	68,4 x 98,4	68,4 x 108,4
Frame internal dimensions [cm]	MxN	48 x 73	53 x 73	53 x 93	53 x 103	63 x 83	63 x 93	63 x 103
Frame width [cm]	S	9						
Frame thickness [cm]	Z	2.7						

Comercial sizes [cm]	55 x 80	60 x 80	60 x 100	60 x 110	70 x 90	70 x 100	70 x 110

order processing time 10 working days



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