



LOFT
LADDERS
2016 JULY

25
YEARS
OF INNOVATION

FAKRO®

**IT FOLDS
WELL...**



**FOLDING
LOFT LADDERS**



FOLDING LOFT LADDERS

enable safe and easy access to non-inhabited loft spaces without the need for installing costly and space consuming staircases. The 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

Appropriate design of hatch unloading mechanism, and in some models also ladder's sections unloading mechanism improve loft ladder's operation. 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.**














LOFT LADDERS

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.

All Fakro folding loft ladders ensure high tightness reducing heat loss of your loft and satisfy the requirements of EN 14975:2006. A popular Ladder within the range would be the **LWK Komfort** model, which comes with handrail, protective stile ends and white hatch. To reduce to a minimum the time required to mount the wooden folding section loft ladders in the ceiling, choose the **LWZ Plus** ladders. To reduce to a minimum the time required to mount the wooden folding section loft ladders in the ceiling, the customer may choose the ladders Another product in



		LWK KOMFORT		LWZ PLUS		LWL		HIGHLY-INSULATED LTK ENERGY		LWT		FIRE RESISTANT LWF 45	
													
Thickness of thermal insulation		3		3		3		6		7,4		7,4	
Heat transmittance coefficient U [W/m²K]		1.1		1.1		1.1		0.68		0.51		0.60 ¹	
Fire resistance class according to EN13501-2		—		—		—		—		—		E ₁ 45	
Box height [cm]		14		14		14		18		22		22	
System of quick installation in the ceiling		—		+		—		—		—		—	
Ladder section		wooden		wooden		wooden		wooden		wooden		wooden	
Width of the tread [cm]		8		8		8		8		8		8	
ceiling height [cm]	maximum (standard)	280	305	280	305	280	305	280	305	280	305	280	305
	minimum ²	232/250 ³	246	232	246	260	260	235/253 ³	243	234	255	234	242
	with attached LSS ⁴	—	—	—	—	—	—	—	—	—	—	—	—
max. loading		160 kg		160 kg		160 kg		160 kg		160 kg		160 kg	
													
		page 12		page 14		page 16		page 18		page 20		page 24	

















¹ manufacturer's internal calculations

² Note! for rooms lower than the maximum height the ladder's section has to be cut to measure according to instructions

³ for 4-section loft ladders

⁴ LSS tread suitable for a given type and width of ladders










group of ladders with increased user's comfort are **LWL** ladders equipped with an extra handrail situated on the middle segment and assisting folding and unfolding mechanism. In the group of ladders for special applications there are highly energy-efficient **LTK Energy** ladders aimed at customers who expect the lowest possible heat transfer coefficient. Especially for energy efficient buildings there have been created highly-insulated **LWT** ladders equipped with three gaskets providing a perfect tightness. In case of lack of sufficient space required for unfolding the ladder there can be used slidable **LDK** ladders, furnished similar to **LWT** Ladders. If our ladders are to provide a blaze-block and to prevent the fire spreading there is a choice of three fire proof models: **LWF 45** wooden section ladder, the **LMF** with metal section ladders or ladder **LSF** scissors ladders. In frequently used spaces there are suitable **LMS** ladders, equipped with strengthened metal section. These ladders are also available **LMK** version which is as standard equipped with a handrail and a hatch in white. Additionally, if there is a demand for simplest possible version with quick installation and high comfort of use we offer **LML** ladders and all models of scissor ladders. The **LST, LSZ** ladders have a small size box and are designed for places where there is no possibility of using the segment section ladders. The use of special mechanism allows to open and unfold them by the use of rod, therefore they are especially recommended for installation in high areas.

SLIDING SECTION INSULATED LDK	FOLDING METAL SECTION INSULATED					SCISSORS		
	INSULATED			FIRE-RESISTANT		INSULATED		FIRE-RESISTANT
	LMS	LMK	LML	LMF		LST	LSZ	LSF
								
3	3	3	3	8		3	3	3
1.1	1.1	1.1	1.1	0.79 ^l		1.1	1.1	1.8 ^l
—	—	—	—	E ₂ 120		—	—	E ₂ 60
14	14	14	31,5	16		18	14	14
—	—	—	+	+		+	+	+
wodden	metal	metal	metal	metal		metal	metal	metal
8	8	8	13	13		8	8	8
280 300 335	280 305	280 305	280 305	280 305		280	280	300
200	220 245	220 245	233 256	233 256		230	230	240
—	—	—	—	—		290-330	290-330	310-320
160 kg	200 kg	200 kg	200 kg	200 kg		200 kg	200 kg	200 kg
								
page 26	page 32	page 34	page 36	page 38		page 42	page 44	page 46

L-SHAPED COMBINATION DOORS

TYPES OF L-SHAPED DOORS AND SELECTION

FAKRO, besides a wide range of loft ladders also has in its offer the L-shaped doors, all intended primarily to be built into L-shaped walls. The L-shaped doors provide access to the unused space behind or space under the stationary stairs. In order to meet the needs of its customers FAKRO introduced 3 models of doors. The first and basic model are the **DWK** insulating doors with 3.6cm thick sash. If we want to reduce significantly heat loss and to acquire high tightness the **DWT** highly energy efficient doors is a good choice. For special applications were prepared fireproof doors **DWF**, which in addition to a good thermal insulation parameters provide two-sided fire protection (fire classification EI,45 according to EN,501-2) and high tightness.





Insulated	Highly energy efficient	Fire-resistant
DWK	DWT	DWF
	 	  
		
page 48	page 50	page 52

MILLER STAIRCASES

TYPES OF STAIRCASES AND THEIR SELECTION

FAKRO offers a wide range of miller staircase models which will satisfy even the most diverse needs of our customers.

The **MSP** leaning staircase is ideal for mezzanines and rooms with very limited space, where it is necessary to fold away the ladder when the staircase is not in use. The **MSA** alternating tread staircase thanks to its design occupies very little space inside the room while maintaining optimal comfort of use. Both **MSP** and **MSA** staircases can be successfully utilised even in small ceiling openings normally adapted to loft ladders. In case of more spacious rooms requiring a miller staircase, it is possible to select one of the models of solid straight staircases: **MSU** or its larger counterpart **MSS**. Additionally, in rooms where the inconvenient positioning of the walls excludes the use of straight staircases, it is possible to use **MSW-L** left-handed or **MSW-R** right-handed winder treads in conjunction with the **MSS** staircase.

MSP	MSU	MSA	MSS
			
page 56	page 58	page 60	page 62

MSW

page 64

**WOODEN SECTION
LOFT LADDERS**



**SECTION
LOFT LADDERS**

► BOX

The Loft Ladder box is made of pine wood or metal frame combined with a wooden box. Special design of the box allows for easy installation of architrave linings or as standard is provided with linings, which in combination with quick installation system reduces the time of ladder fitting in the ceiling. The peripheral seal placed in the box ensures proper tightness of the ladder.

► HATCH UNLOADING MECHANISM

The used mechanism significantly simplifies ladder operation. The hatch after unlocking opens slowly without causing any hazard to the user. In addition, the mechanism maintains the hatch in fully open position, prevents it from spontaneous closing during unfolding and folding the ladder.

► HARDWARE

The patented corner hinge or spring's catch stiffens box and prevents changes in the length of its diagonals. Thanks to this box is not deformed thus providing the correct and sustainable use of stairs. The applied ladder's hinges enhance the rigidity of its flexible connections.

► HATCH

The sandwich type hatch can be insulated or fire-resistant. The insulation protects against heat loss, and in case of the fire-resistant loft ladder it also protects against significant increase of temperature during a fire. External surface of the hatch is smooth, thus after installation in the ceiling perfectly blends with any interior design.

► TREAD

The grooves on the tread surface protect 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 (refers to 3- section ladders).

► LADDER

The ladder is made of high quality pine wood, consist of three or four segments. Its substantial retraction from the hatch allows for convenient positioning of the foot. The special design of the ladder and materials used ensure its high durability.

WOODEN
LOFT LADDERS



WOODEN FOLDING SECTION LOFT LADDERS

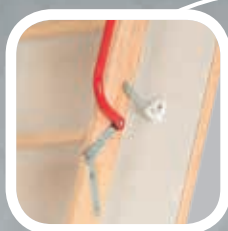
LWK
KOMFORT

STANDARD
EN
14975

U=1.1
W/m²K



The **LWK Komfort** ladder's innovative solutions ensure a high comfort of use, great insulating properties, and quick and easy installation in the ceiling. The LWK Komfort loft ladder is equipped with aesthetically finished insulated white hatch in white, and handrail and stile ends as standard.



Insulated white hatch and handrail



Hinge of the hatch controls the hatch movement, and during the hatch opening section moves it away from the ladder's section, thus automatically increasing the space from the ladder's section for higher comfort of use.



CLICK

Low weight and innovative way of hooking the hatch on the so-called „click“ allows for installation of the loft ladder by one person.



stile ends (only in 3-section version)



handrail



white hatch



non-slip treads set flush with ladder strings



peripheral seal



easy installation



possibility of installing additional accessories, pages 66-71

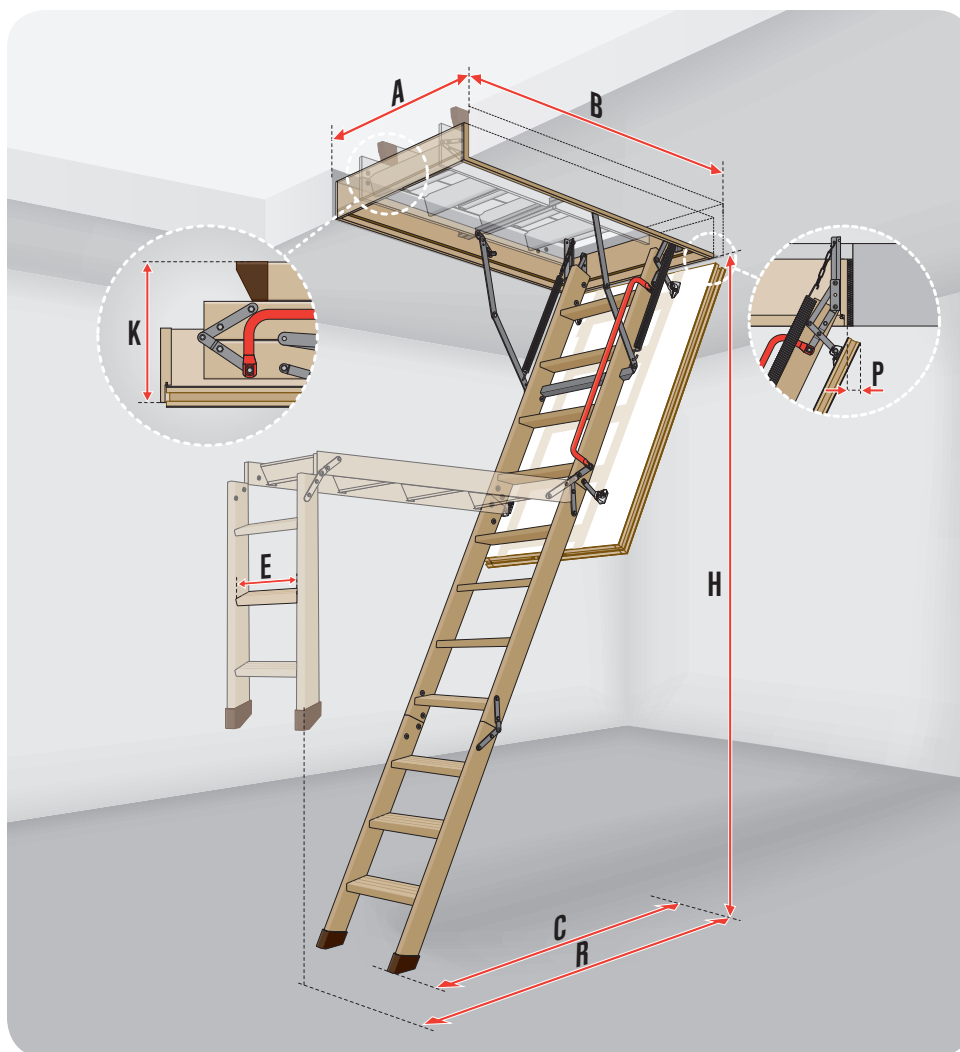
Technical specification:
permissible load of 160 kg
heat transmission coefficient U = 1.1 W / m²K
insulation thickness 3 cm
hatch thickness 3.6 cm

fully assembled,
and ready for quick
installation in the ceiling



3 years
WARRANTY

LWK KOMFORT LADDER DIAGRAM



LWK Komfort 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]		53 x 109.4	58 x 92.4	58 x 98.4	58 x 109.4	58 x 118.4	58 x 128.4	68 x 92.4	68 x 98.4	68 x 109.4	68 x 118.4	68 x 128.4	68 x 138.4	58 x 128.4	58 x 138.4	68 x 128.4	68 x 138.4	
Internal box dimensions [cm]		49 x 105	54 x 88	54 x 94	54 x 105	54 x 114	54 x 124	64 x 88	64 x 94	64 x 105	64 x 114	64 x 124	64 x 134	54 x 124	54 x 134	64 x 124	64 x 134	
Folded ladder height [cm]	K	27	35		27			35					27					
Swing space [cm]	R	153	128		153		156		128		153		156		175			
Distance after ladder unfolding [cm]	C	113	114		113		120		114		113		120		135			
Hatch retraction after opening [cm]	P													4				
Box height [cm]														14				
Number of segments		3	4		3			4					3					

LADDER PARAMETERS

Tread length [cm]	E	30																34	
Tread width [cm]																			8
Distance between treads [cm]																			25
Tread thickness [cm]																			2

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			
Code		863821			863804	863801	863802			863814	863811	863812	863813	863851	863852	863853	863854
Code			863807	863806				863817	863816								

order processing time 3 working days

order processing time 10 working days

The LWK Komfort non-standard sizes page 28

WOODEN
LOFT LADDERS



WOODEN SECTION LOFT LADDERS

NEW!

**LWZ
PLUS**



Quick installation brackets integrated with steel frame accelerate installation and facilitate leveling of the loft ladder in the ceiling



Architrave lining integrated with a box guarantee an aesthetic finish of the installed loft ladders



Hatch hinge controls hatch movement and during the opening the hatch automatically moves away from the ladder's section for higher comfort of use.

STANDARD
**EN
14975**

U=1.1
W/m²K

➤ The **LWZ Plus** loft ladder combines the advantages of the new construction with a quick installation system. Steel frame integrated with quick installation brackets and metal architrave lining enable quick installation and immediate finishing of gaps in the ceiling.



stile ends



white hatch



architrave



peripheral seal



handrail



not-slip treads set flush with ladder strings



system of quick installation in the ceiling



possibility of installing additional accessories -page 66-71

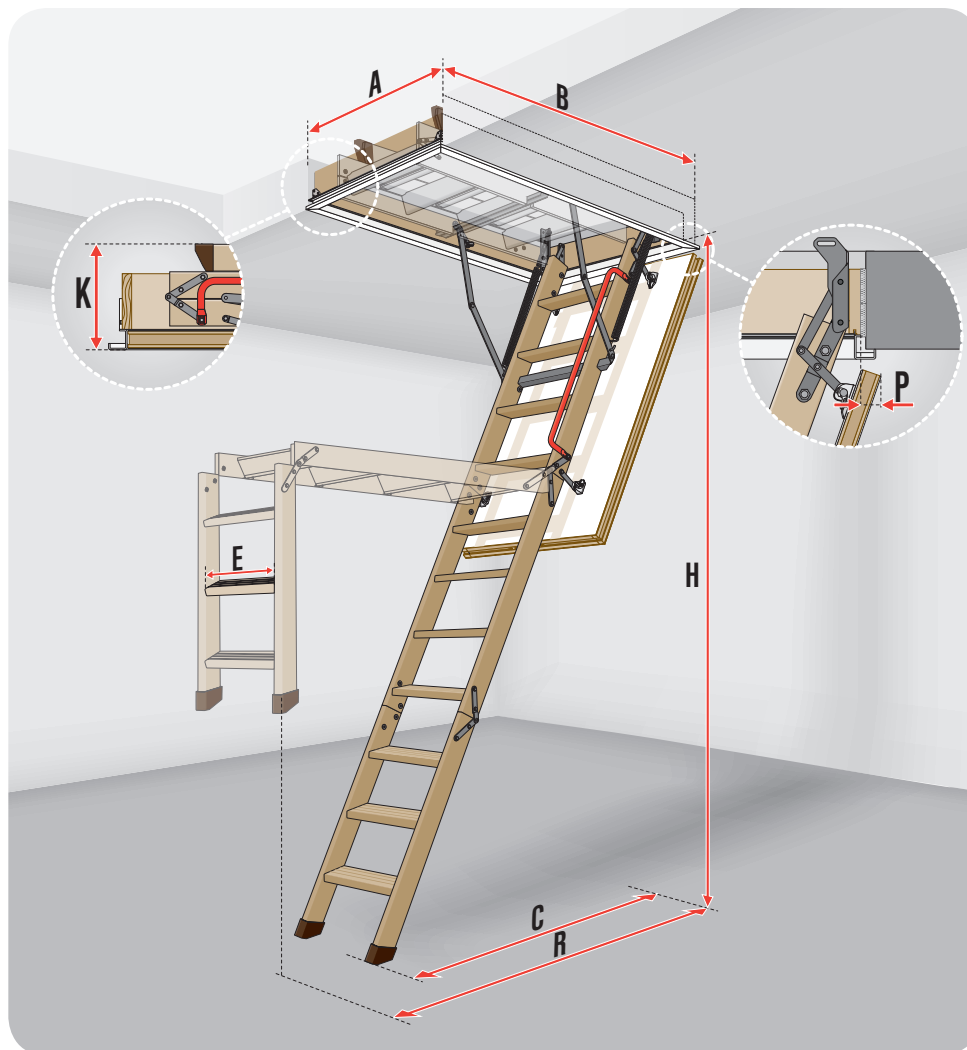
Technical specification:
permissible load of 160 kg
heat transmission coefficient U = 1.1 W / m²K
insulation thickness 3 cm
hatch thickness 3.6 cm

fully assembled,
and ready for quick
installation in the ceiling



3 years
WARRANTY

LWZ PLUS LADDER DIAGRAM



LWZ Plus 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]		58.8 x 118.8	68.8 x 118.8	68.8 x 128.8	68.8 x 138.8	58.8 x 128.8	68.8 x 128.8	68.8 x 138.8
Internal box dimensions [cm]		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	27						
Swing space [cm]	R	156				175		
Distance after ladder unfolding [cm]	C	120				135		
Hatch retraction after opening [cm]	P	4						
Box height [cm]		14						

LADDER PARAMETERS

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

LOFT LADDER DIMENSIONS

Commercial sizes [cm]		60x120	70x120	70x130	70x140	60x130	70x130	70x140
Room height [cm]	H	280				305		
Codes		865701	865711	865712	865713	865751	865753	865754

order processing time 10 working days

Ladders are available only in sizes shown above.

WOODEN SECTION LOFT LADDERS

LWL
LUX

STANDARD
**EN
14975**

U=1.1
W/m²K

➤ **LWL Lux** loft ladder is equipped with additional handrail on the middle segment and special gas spring mechanism supporting folding and unfolding the ladder. Special construction of the hatch unloading mechanism enables to eliminate the lock.

Additional handrail enhances safety and comfort of use.

The applied gas spring makes the ladder folding and unfolding easier.



stile ends



white hatch



peripheral seal



handrail



not-slip treads protruding from strings



unloading mechanism



possibility of installing additional accessories - page 66-71

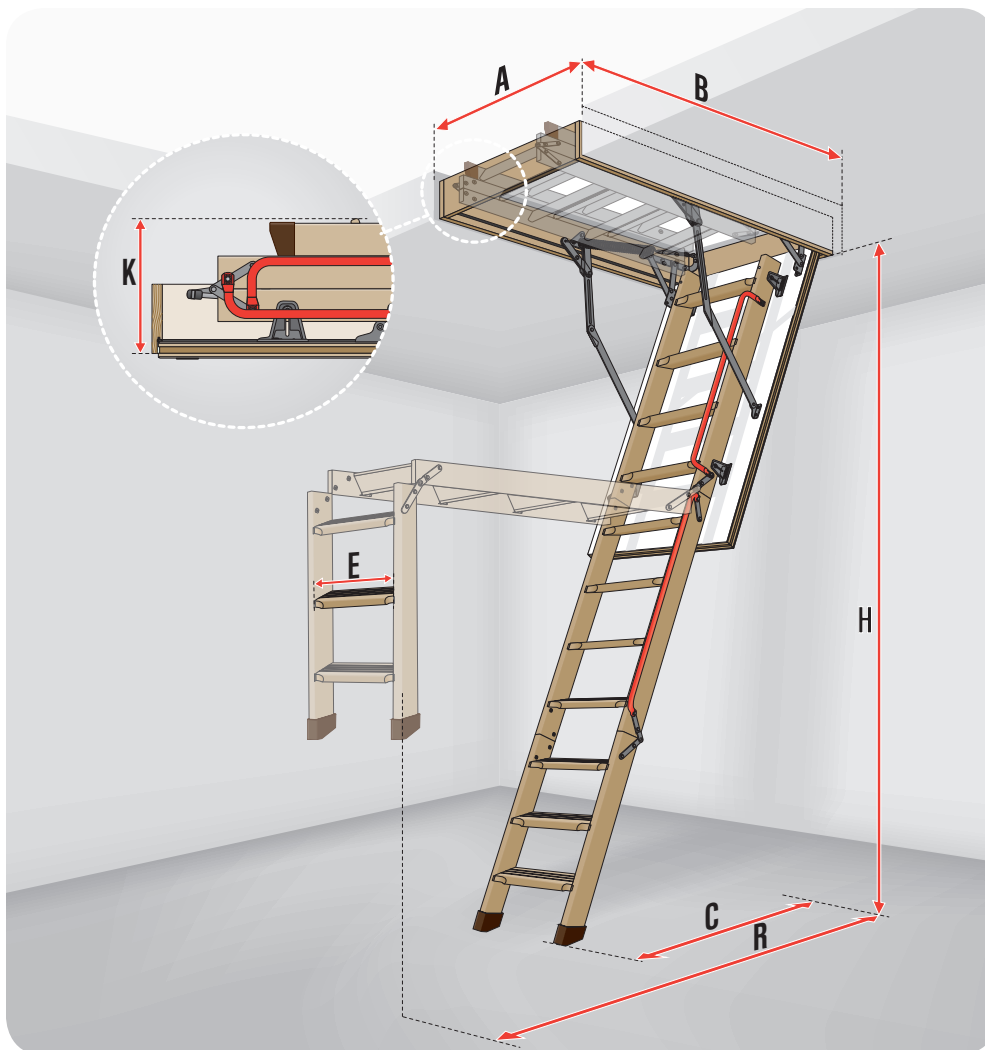
Technical specification:
permissible load of 160 kg
heat transmission coefficient $U = 1.1 \text{ W/m}^2\text{K}$
insulation thickness 3 cm
hatch thickness 3.6 cm

fully assembled,
and ready for quick
installation in the ceiling



3 years
WARRANTY

LWL LUX LADDER DIAGRAM



LWL Lux 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]		58 x 118	68 x 118	68 x 128	68 x 138	58 x 128	68 x 128	68 x 138
Internal box dimensions [cm]		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	34						
Swing space [cm]	R	164				179		
Distance after ladder unfolding [cm]	C	122				130		
Box height [cm]		14						

LADDER PARAMETERS

Tread length [cm]	E	30	34	30	34
Tread width [cm]		8			
Distance between treads [cm]		25			
Tread thickness [cm]		2			

LOFT LADDER DIMENSIONS

Commercial sizes [cm]		60x120	70x120	70x130	70x140	60x130	70x130	70x140
Room height [cm]	H	280				305		
Code		862001	862011	862012	862013	862051	862053	862054

order processing time 15 working days

Ladders are available only in sizes shown above.

WOODEN
LOFT LADDERS

WOODEN SECTION LOFT LADDERS

NEW!

**LTK
ENERGY**



Double system of seals
guarantees perfect
tightness



Short distance between
the last tread and attic
floor



CLICK

Low weight of the hatch and
the way of hooking with the
so-called „click“ allows for
installation of the loft ladder
by one person



The highly energy efficient, 6.6cm thick
hatch secures against
heat losses, bringing significant savings
in energy bills.

4th
CLASS
EN12207

STANDARD
**EN
14975**

U=0.68
W/m²K



The **LTKEnergy** is highly energy efficient new generation loft ladder intended for energy-efficient buildings. They guarantee a high level of comfort, excellent thermal insulation parameters and the highest Class 4 tightness.



style ends



white hatch



two seals



handrail



not-slip treads set flush
with ladder strings



easy installation



possibility of installing
additional accessories-
page 66-71

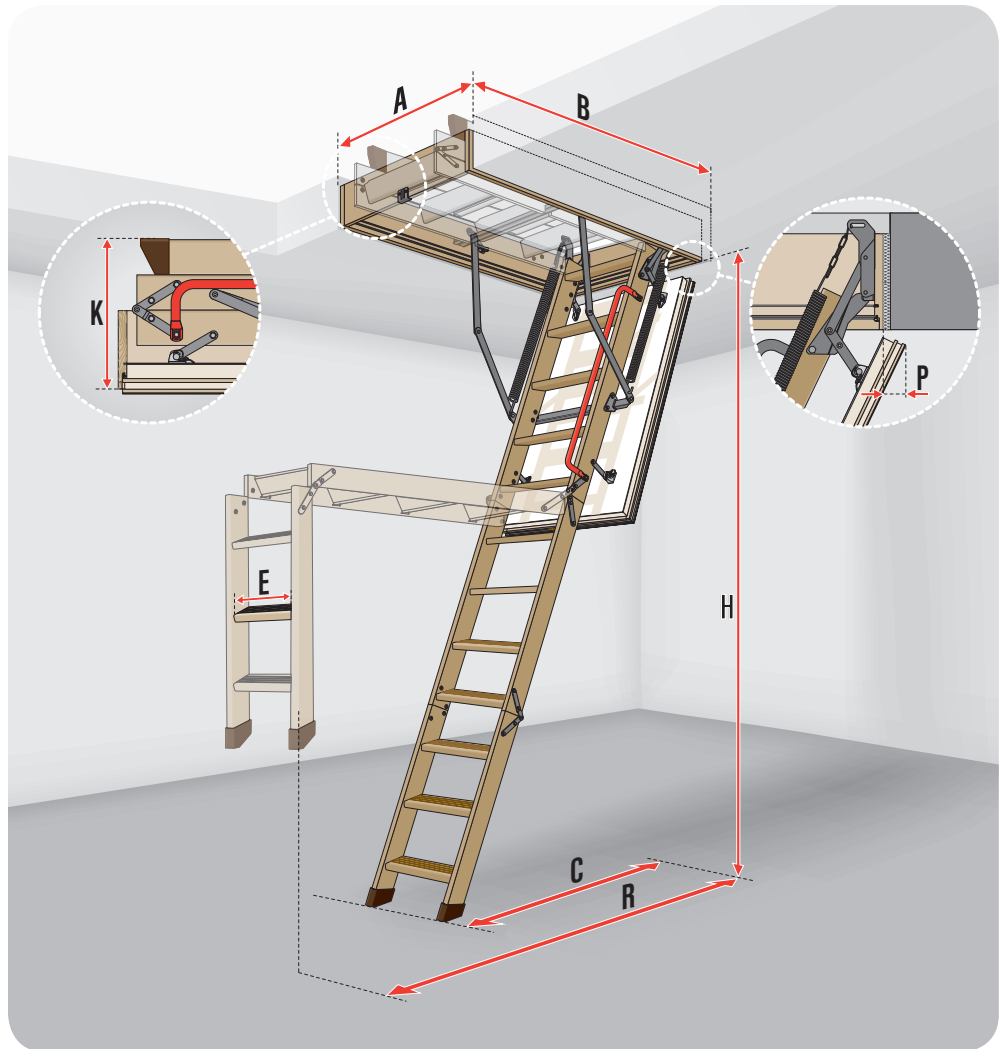
Technical specification:
maximum load of 160 kg
heat transmission coefficient U = 0.68 W / m²K
insulation thickness 6 cm
hatch thickness 6.6 cm

fully assembled,
and ready for quick
installation in the ceiling



3 years
WARRANTY

LTK ENERGY LADDER DIAGRAM



LTK ENERGY LOFT LADDER DIMENSIONS

Ceiling opening dimensions [cm]	A x B	55x100	60x100	70x100	60x120	70x120	70x130	70x140	60x130	70x130	70x140
Room height [cm]	H	280								305	
Box external dimensions [cm]		53x98.4	58x98.4	68x98.4	58x118.4	68x118.4	68x128.4	68x138.4	58x128.4	68x128.4	68x138.4
Internal box dimensions [cm]		49x94	54x94	64x94	54x114	64x114	64x124	64x134	54x124	64x124	64x134
Folded ladder height [cm]	K	42				35					
Swing space [cm]	R	136				164				178	
Distance after ladder unfolding [cm]	C	123				129				139	
Hatch retraction after opening [cm]	P							3			
Box height [cm]								18			
Number of segments		4				3					

LADDER PARAMETERS

Tread length [cm]	E	30	34								
Tread width [cm]								8			
Distance between treads [cm]								25			
Tread thickness [cm]								2			

LOFT LADDER

Commercial sizes [cm]		55x100	60x100	70x100	60x120	70x120	70x130	70x140	60x130	70x130	70x140
Room height [cm]	H	280								305	
Code		864720	864706	864716	864701	864711	864712	864713	864751	864753	864754

order processing time 15 working days

Ladders are available only in sizes shown above.

WOODEN
LOFT LADDERS



WOODEN SECTION LOFT LADDERS

LWT

4th
CLASS
EN12207

STANDARD
EN
14975

U=0.51
W/m²K



The **LWT**, highly energy efficient loft ladder is recommended for energy efficient buildings with special emphasis on minimizing a heat loss. Thanks to its excellent insulating parameters it significantly reduces energy bills.



Triple system of seals guarantees the perfect tightness.



CLICK

Low weight and innovative way of hooking the hatch on the so-called „click“ allows for installation of the loft ladder by one person



Short distance between the last tread and attic floor



Special hatch, 8 cm thick, filled only with insulating material (polystyrene), provides an excellent barrier reducing heat loss.



stile ends



white hatch



three seals
x3



handrail



not-slip treads set flush with ladder strings



easy installation



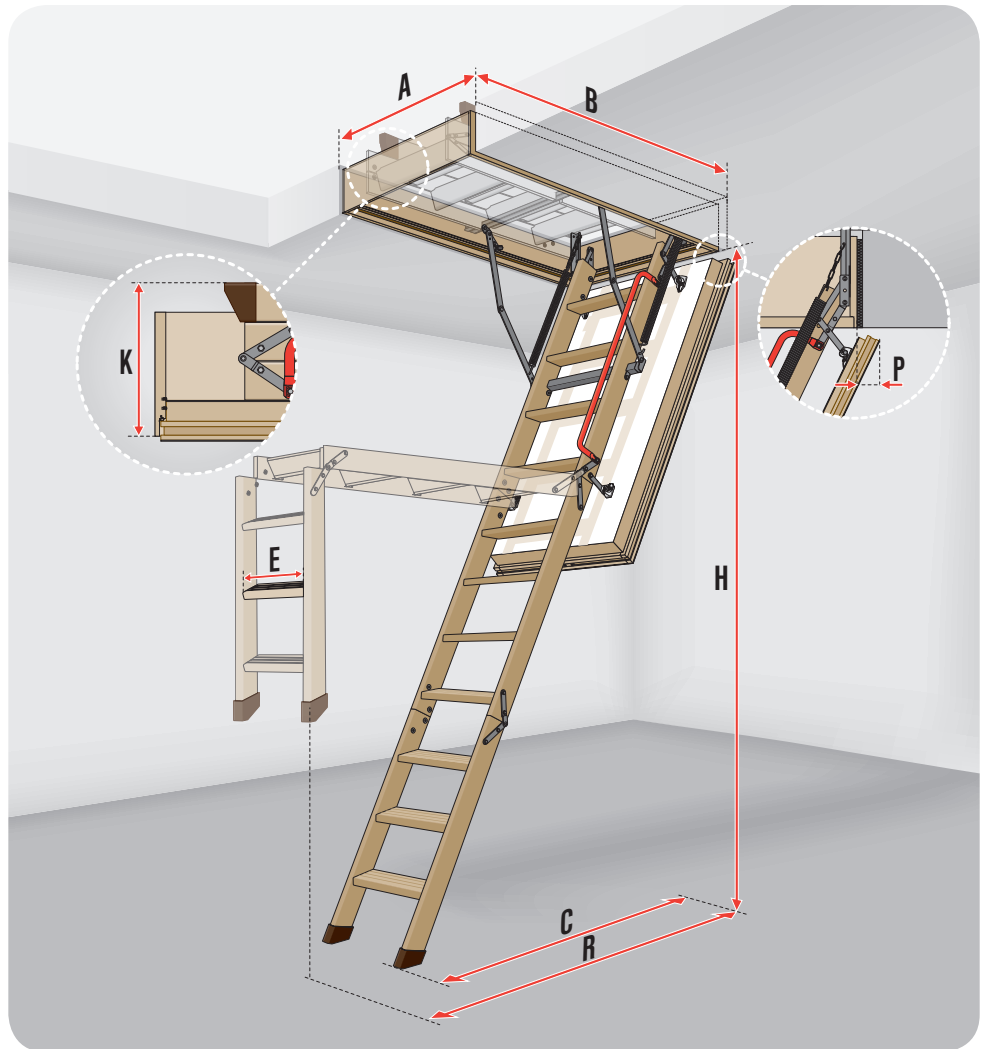
possibility of installing additional accessories

Technical specification:
permissible load of 160 kg
heat transmission coefficient U = 0.51 W / m²K
insulation thickness 7.4 cm
hatch thickness 8 cm

fully assembled,
and ready for quick
installation in the ceiling



LWT LOFT LADDER DIAGRAM



LWT 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]		58x118.4	68x118.4	68x128.4	68x138.4	58x128.4	68x128.4	68x138.4
Internal box dimensions [cm]		54x114	64x114	64x124	64x134	54x124	64x124	64x134
Folded ladder height [cm]	K	33						
Swing space [cm]	R	160				175		
Distance after ladder unfolding [cm]	C	127				135		
Hatch retraction after opening [cm]	P					6,5		
Box height [cm]		22						

LADDER PARAMETERS

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

LOFT LADDER

Commercial sizes [cm]		60x120	70x120	70x130	70x140	60x130	70x130	70x140
Room height [cm]	H	280				305		
Code		863101	863111	863112	863113	863151	863153	863154

order processing time 15 working days

Ladders are available only in sizes shown above.

WOODEN
LOFT LADDERS



LOFT LADDERS WITH WOODEN FOLDING SECTION

NEW!

LWT
PASSIVE
HOUSE

4th
CLASS
EN12207

STANDARD
EN
14975

U=0.51
W/m²K



Kit allows for proper loft ladder
insulation in the ceiling

➤ The **LWT Passive House** loft ladder is a complex solution for the passive construction buildings. Using highly energy efficient loft ladder with a kit connecting the loft ladder to the ceiling guarantee a perfect seal and insulation without thermal bridges. This solution is confirmed by a Passive House Certificate.



stile ends



PASSIVE HOUSE
Insulation kit



white hatch



non-slip treads set flush
with ladder strings



three seals
x3



easy installation



handrail



possibility of installing
additional accessories-
page 66-71

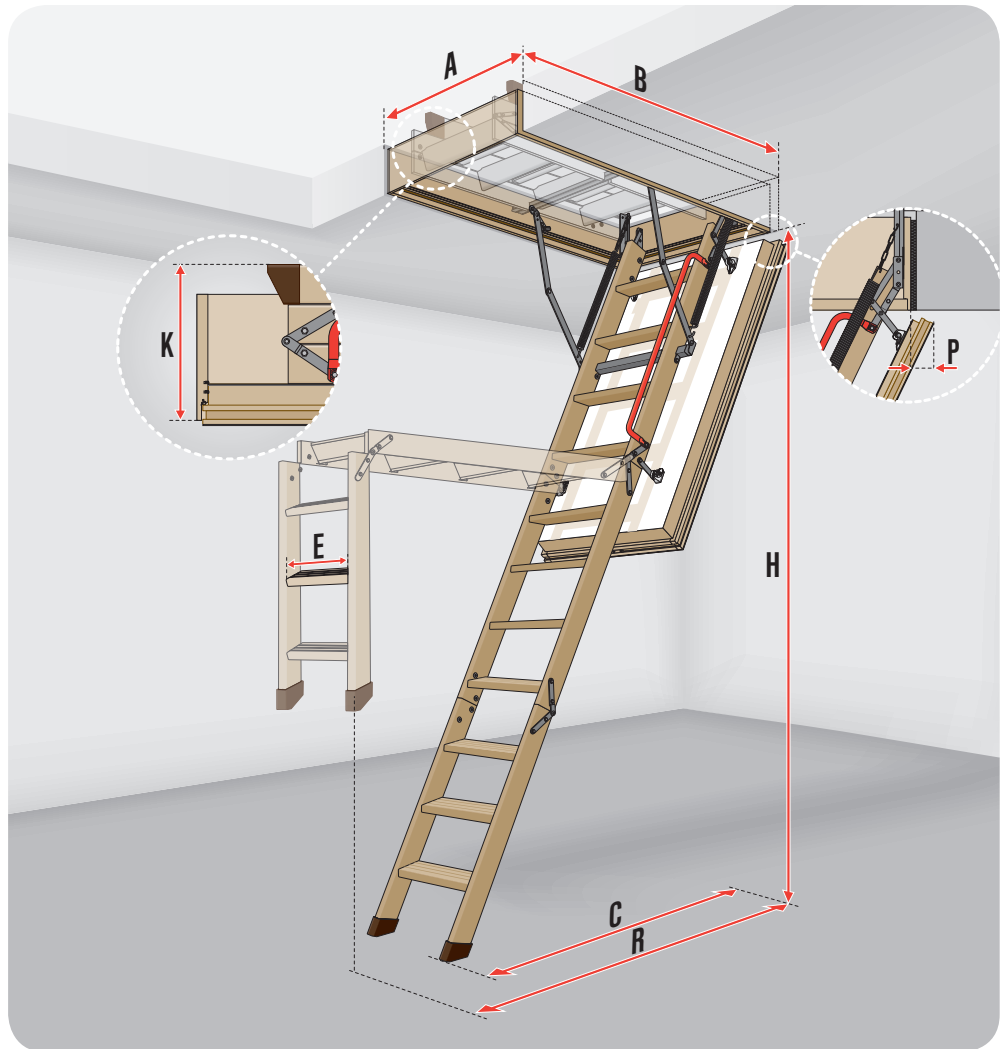
Technical specification:
permissible load of 160 kg
heat transmission coefficient U = 0.51 W / m²K
insulation thickness 7.4 cm
hatch thickness 8 cm

fully assembled,
and ready for quick
installation in the ceiling



3 years
WARRANTY

LWT LOFT LADDER DIAGRAM



LWT PASSIVE HOUSE LOFT LADDER DIMENSIONS

Ceiling opening dimensions [cm]	AxB	62x122	72x122	72x132	72x142	62x132	72x132	72x142
Room height [cm]	H	280				305		
Box external dimensions [cm]		58x118.4	68x118.4	68x128.4	68x138.4	58x128.4	68x128.4	68x138.4
Internal box dimensions [cm]		54x114	64x114	64x124	64x134	54x124	64x124	64x134
Folded ladder height [cm]	K	33						
Swing space [cm]	R	160				175		
Distance after ladder unfolding [cm]	C	127				135		
Hatch retraction after opening [cm]	P	6,5						
Box height [cm]		22						

LADDER PARAMETERS

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

LOFT LADDER

Commercial sizes [cm]		62x122	72x122	72x132	72x142	62x132	72x132	72x142
Room height [cm]	H	280				305		
Code								

Ladders are available only in sizes shown above.

WOODEN
LOFT LADDERS



LOFT LADDERS WITH WOODEN FOLDING SECTION



LWF 45
FIRE-RESISTANT



The **LWF 45**, a new generation of fire resistant loft ladders which perfectly combines a **high level of fire protection** with comfortable and safe access to the loft. Special hatch design and the materials used provide a **45-minute** protection against fire penetration from the space where the loft ladder was installed. (**E₁45/ E₂45**).



Triple system of seals guarantees the perfect tightness.



Short distance between the last tread and attic floor



Hinge of the hatch controls the hatch movement, and during the opening moves the hatch away from the ladder's treads, thus automatically increasing the space indispensable for the ladder use.



The white on both sides and insulated, the hatch is equipped with expandable seal which under the influence of heat expands and prevents entering the fire to the fire free space.

* manufacturer's internal calculations



stile ends



handrail



fire resistant hatch



non-slip treads set flush with ladder strings



three seals



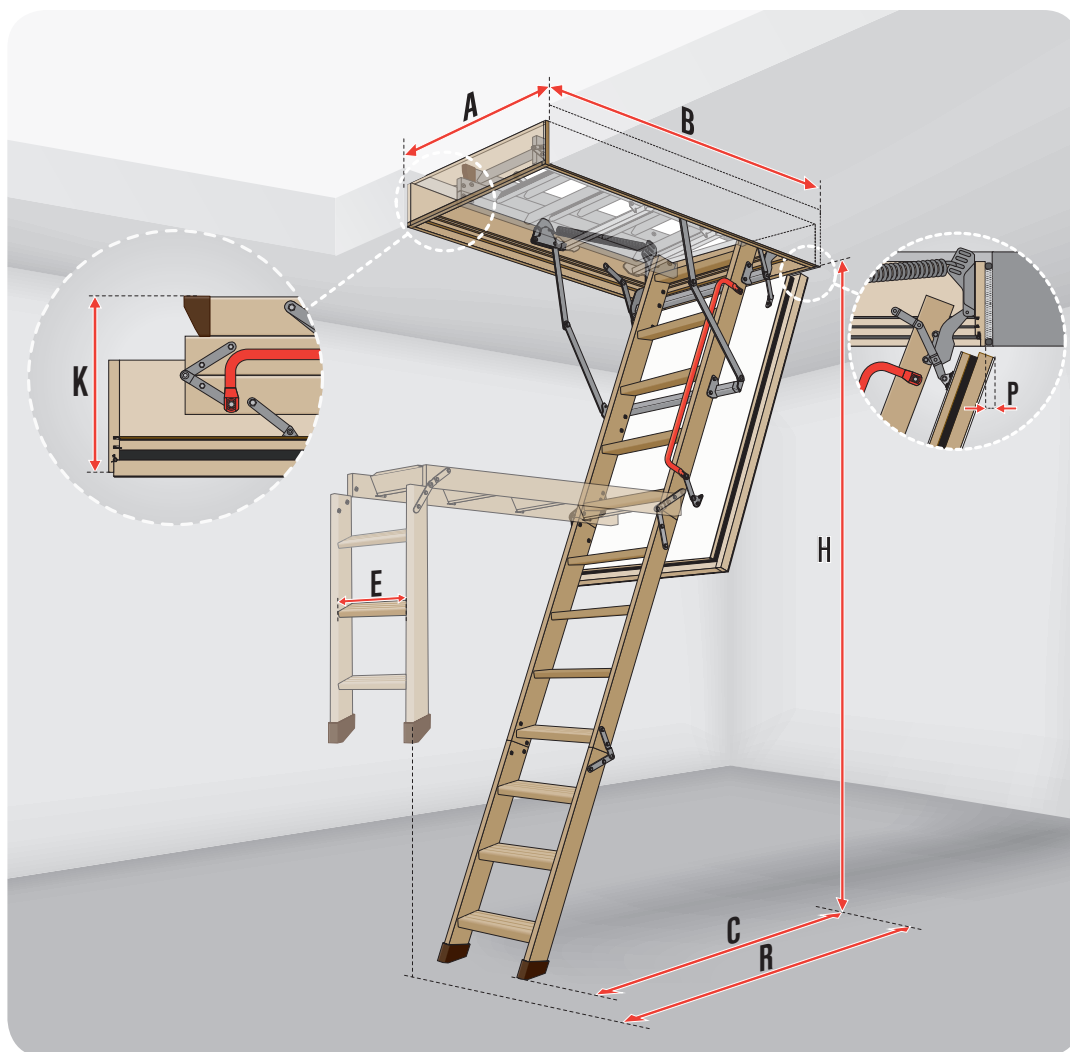
possibility of installing additional accessories - page 66-71

Technical specification:
maximum load of 160 kg
heat transmission coefficient U = 0.6 W/m²K
Fire resistance class EI₁/EI₂=45min
insulation thickness 7.4 cm
hatch thickness 8 cm

fully assembled,
and ready for quick
installation in the ceiling



LWF 45 LOFT LADDER DIAGRAM



LWF 45 LOFT LADDER DIMENSIONS

Ceiling opening dimensions [cm]	AxB	60x120	70x120	70x130	70x140	86x130	70x130	70x140	86x130	
Room height [cm]	H	280						305		
Box external dimensions [cm]		58 x 118	68 x 118	68 x 128	68 x 138	84 x 128	68 x 128	68 x 138	84 x 128	
Internal box dimensions [cm]		54 x 114	64 x 114	64 x 124	64 x 134	80 x 124	64 x 124	64 x 134	80 x 124	
Folded ladder height [cm]	K	37								
Swing space [cm]	R	164					178			
Distance after ladder unfolding [cm]	C	129					139			
Hatch retraction after opening [cm]	P	4								
Box height [cm]		22								

LADDER PARAMETERS

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

LOFT LADDER

Commercial sizes [cm]		60x120	70x120	70x130	70x140	86x130*	70x130	70x140	86x130*	
Room height [cm]	H	280						305		
Code		864601	864611	864612	864613	864696	864653	864654	864697	

order processing time 15 working days

Ladders are available only in sizes shown above.

WOODEN
LOFT LADDERS



SLIDING SECTION LOFT LADDERS

LDK

STANDARD
**EN
14975**

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.



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.



white hatch



peripheral seal



not-slip treads protruding from strings



handrail



possibility of installing additional accessories - page 66-71

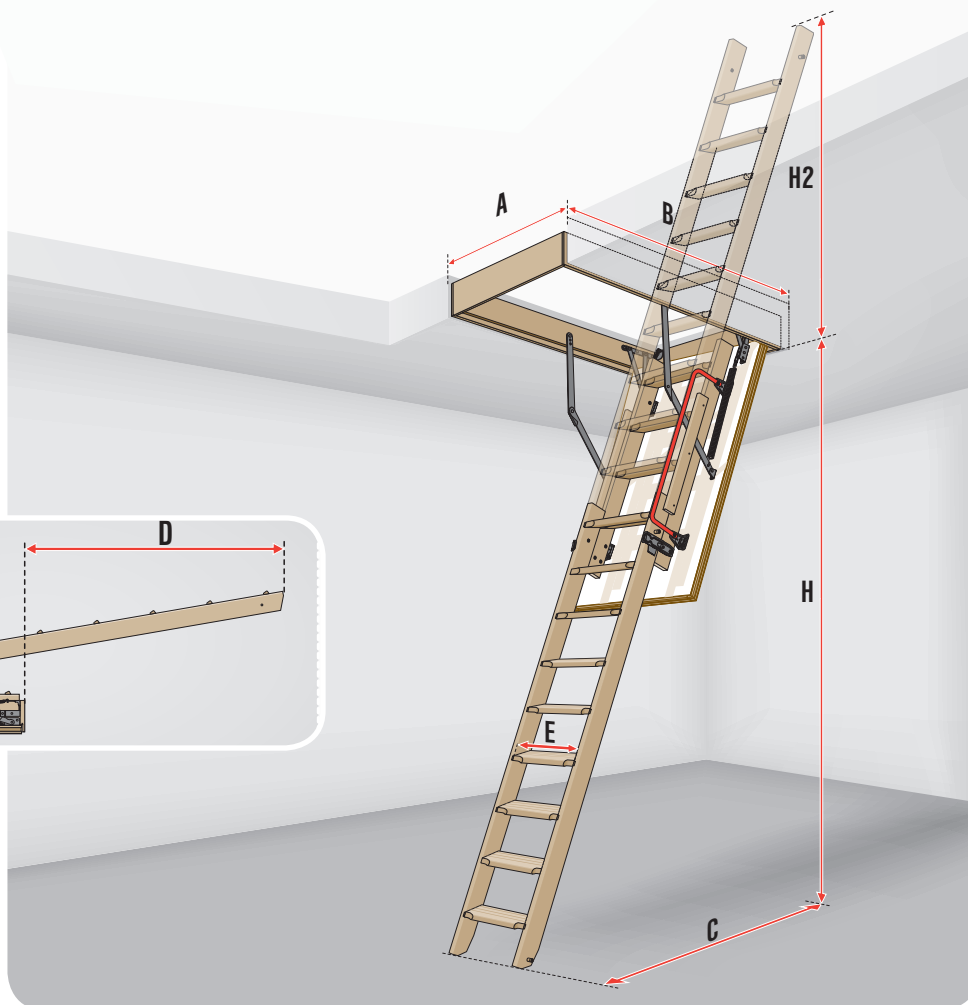
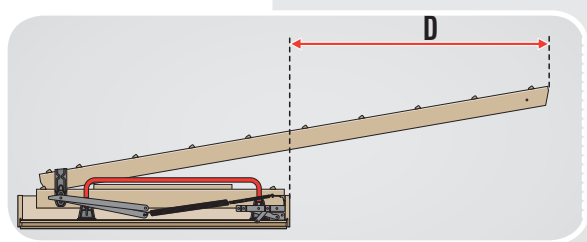
Technical specification:
maximum load of 160 kg
heat transmission coefficient U = 1.1 W/m²K
insulation thickness 3 cm
hatch thickness 3.6 cm

fully assembled,
and ready for quick
installation in the ceiling



3 years
WARRANTY

LDK LOFT LADDER DIAGRAM



LDK LADDER DIMENSIONS

Ceiling opening dimensions [cm]	AxB	60x120	70x120	70x130	70x140	60x120	70x120	70x130	70x140	60x120	70x120	70x130	70x140
Sliding section LDS		LDS-9				LDS-10				LDS-11			
Room height [cm]	H	280				300				335			
Box external dimensions [cm]		58x118.4	68x118.4	68x128.4	68x138.4	58x118.4	68x118.4	68x128.4	68x138.4	58x118.4	68x118.4	68x128.4	68x138.4
Internal dimensions of the box [cm]		54x114	64x114	64x124	64x134	54x114	64x114	64x124	64x134	54x114	64x114	64x124	64x134
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	D	129				155				185			
Max thickness of the ceiling [cm]						31,5							
Box height [cm]						14							

LADDER PARAMETERS

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

LOFT LADDER

Commercial sizes [cm]		60x120	70x120	70x130	70x140	60x120	70x120	70x130	70x140	60x120	70x120	70x130	70x140
Room height [cm]	H	280				300				335			
Code		861001	861011	861012	861013	861001	861011	861012	861013	861001	861011	861012	861013
Code		861101	861101	861101	861101	861102	861102	861102	861102	861103	861103	861103	861103

order processing time 10 working days

Ladders are available only in sizes shown above.

*The LDK complete ladder consists of the top element and sliding section LDS, packed separately.

NON-STANDARD LOFT LADDER SIZES

NON-STANDARD LOFT LADDER SIZES

In situations where the installation of FAKRO standard loft ladders is not possible, there is a possibility for bespoke wooden folding section loft ladders LWK Komfort in non-standard sizes.

▶ 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.

▶ HARDWARE

The spring catch 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. The hinges joining each of the sections provide rigidity to moving connections.

▶ TREADS

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

▶ STILE ENDS

Stile ends (only for 3-section loft ladders) made of plastic protect the floor surface from scratches and additionally add to the overall ladder stability.

▶ 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.

▶ 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.

▶ LADDER

FAKRO Loft Ladders are usually composed of three, sometimes four sections. These sections are moved away from the hatch door in order to create additional space for footing. The special ladder structure and materials used ensure it's high durability.

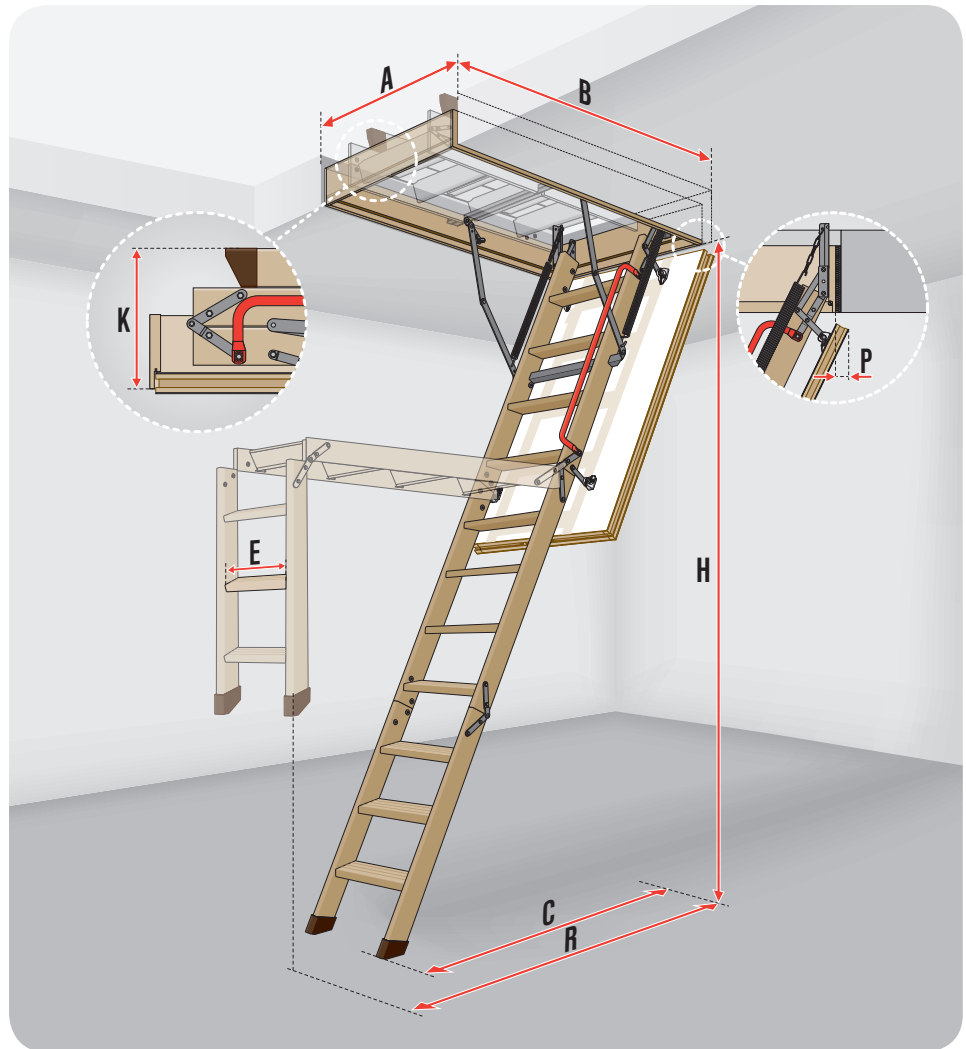


When ordering the **LWK Komfort** loft ladder in non-standard sizes the actual dimensions of the ceiling opening ("A" and "B") and the room height "H" have to be provided.

The actual size of the loft ladder box is reduced (for installation reasons) by 2 cm in width and 1.6 cm in length, e.g. for the opening dimensions 54x94 cm, the loft ladders would be 52x92.4 cm.

When ordering the loft ladder one should also take into account the swing space the loft ladder occupies while unfolding (swing space "R"), distance after ladder unfolding (distance "C") and distance "P" -hatch retraction after opening.

The LWK Komfort loft ladders are equipped as standard in white on both sides hatch, stile ends (only in three segment loft ladders) and handrail (with an exception of loft ladder installed in ceiling openings widths of 54 cm). The height of loft ladder box is 14 cm, and in case of a thicker ceiling for aesthetics of the ceiling opening there is a possibility to install a box extension LXN. See page 68.



LOFT LADDER COMMERCIAL SIZES

Ceiling opening width [cm]	Ceiling opening length [cm]	Room height [cm]	Swing space (measured from the rear edge of the box) [cm]	Distance after ladder unfolding (measured from the rear edge of the box) [cm]	Hatch retraction after opening [cm]	Number of segments
A	B	H	R	C	P	
54 – 86	94 – 140	200 – 280	125-156	89-120	4	3 or 4
	130 – 140	280 – 305	155-175	120-135	4	3
	140	305 – 335	175-184	135-146	4	3

TREAD E LENGTH:

3-segment ladder

Ceiling opening width A [cm]	54 ≤ A < 58	58 ≤ A
Tread E length [cm]	30	34

4-segment ladder

Ceiling opening width A [cm]	54 ≤ A < 56	56 ≤ A < 60	60 ≤ A
Tread E length [cm]	28	30	34

order processing time 10 working days

METAL SECTION
LOFT LADDERS



SECTION
LOFT LADDERS



► BOX

The ladder box can be made of wood, metal or metal frame connected with a wooden box. Special design of the box allows for easy installation of an architrave or as standard is already equipped with architrave which in connection with a quick installation system reduce time needed for installation of the ladder in the ceiling. The peripheral seals (one or two) provide adequate tightness of the loft ladder.

► HATCH UNLOADING MECHANISM

Used in the loft ladder the hatch unloading mechanism holds the hatch in position both during full opening and in the intermediate positions. This allows safe folding and unfolding the ladder's sections. Additionally in the LML and LMF loft ladders' handrail, there is a hidden ladder relief mechanism, which in combination with the hatch unloading mechanism allows full operation of the loft ladder with a use of a single rod.

► HARDWARE

The patented corner hinge stiffens the box and prevents any changes in its 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 made of wood or metal and can be insulated or fire-resistant. The insulation protects against heat loss, and in case of the fire-resistant ladder it also protects against significant increase of temperature during a fire. External surface of the hatch is smooth, thus after installation in the ceiling perfectly blends with any interior design.

► TREAD

The round embossed pattern on the metal tread surface protects the user from accidental slipping while using the loft ladder. In addition, the width of the single tread (8 or 13 cm) allows for secure and comfortable usage of the ladder.

► STILE ENDS

Made from plastic, these protect the floor from scratches and in addition add to the overall ladder stability.

► LADDER

The special design of the metal ladder and a double connection of the ladder hinges guarantee high ladder strength. Ladder elements are powder-coated with hard wearing lacquer in grey RAL 7022 or silver RAL 9006. Some of the metal ladders have loosened the last two treads and telescopic stile ends. This allows easy adjustment of ladder's length to the ceiling height without cutting.

METAL
LOFT LADDERS



METAL FOLDING SECTION LOFT LADDERS

LMS
SMART

STANDARD
EN
14975

U=1.1
W/m²K



The **LMS** loft ladder is a 3-section ladder, in which the hatch and the box are made of pine wood. The metal ladder is powder-coated in RAL 7022. The hatch is insulated and in beige.



The use of metal ladder with special hinge structure guarantees high durability
-permissible loading 200kg



stile ends



beige hatch



peripheral seal



non-slip treads



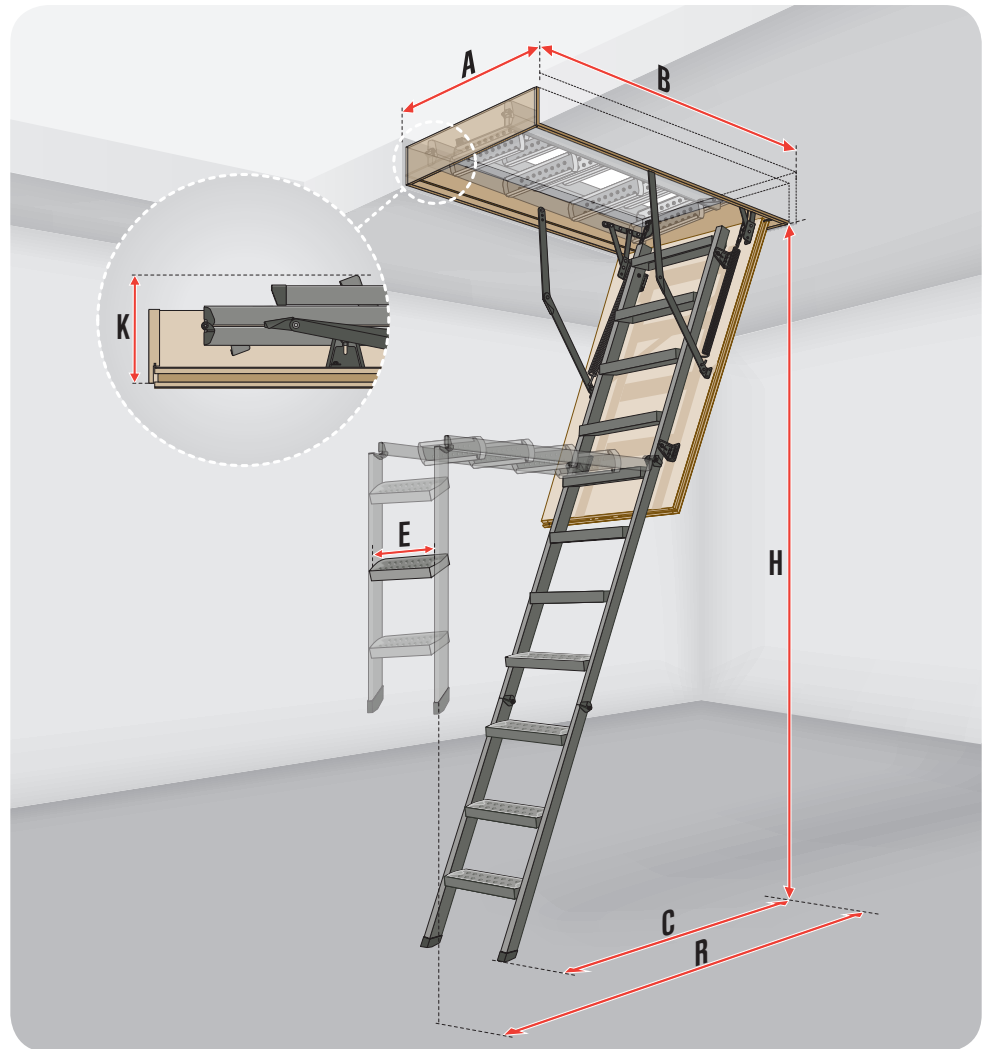
possibility of installing additional accessories - page 66-71

Technical specification:
permissible loading of 200 kg
heat transmission coefficient $U = 1.1 \text{ W/m}^2\text{K}$
insulation thickness 3 cm
hatch thickness 3.6 cm

fully assembled,
and ready for quick
installation in the ceiling



LMS LOFT LADDER DIAGRAM



LMS 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]		58x118.4	68x118.4	68x128.4	68x138.4	68x128.4	68x128.4	68x138.4
Internal box dimensions [cm]		54x114	64x114	64x124	64x134	54x124	64x124	64x134
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 [cm]	E	34						
Tread width [cm]		8						
Distance between treads [cm]		25						

LOFT LADDER

Commercial sizes [cm]		60x120	70x120	70x130	70x140	60x130	70x130	70x140
Room height [cm]	H	280				305		
Code		861201	861211	861212	861213	861251	861253	861254

order processing time 15 working days

order processing time 10 working days

Ladders are available only in sizes shown above.

METAL
LOFT LADDERS



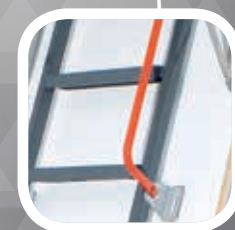
METAL FOLDING SECTION LOFT LADDERS

LMK
KOMFORT

STANDARD
**EN
14975**

U=1.1
W/m²K

➤ The **LWK** loft ladder unlike the LMS has a white hatch and red handrail.
The handrail is installed to the ladder brackets and makes the ladder usage much easier.



White insulated hatch
and handrail



stile ends



handrail



white hatch



non-slip treads



peripheral seal



possibility of installing
additional accessories-
page 66-71

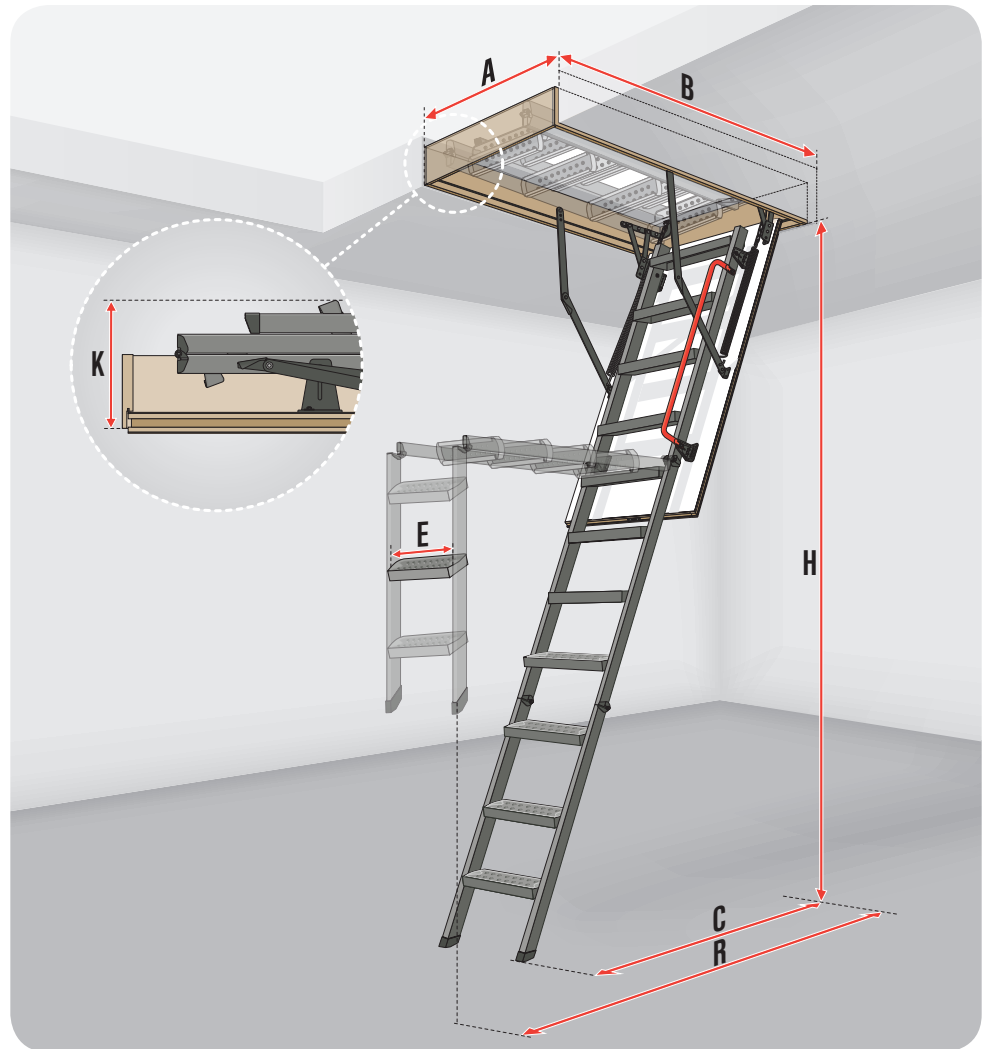
Technical specification:
permissible loading of 200 kg
heat transmission coefficient $U = 1.1 \text{ W/m}^2\text{K}$
insulation thickness 3 cm
hatch thickness 3.6 cm

fully assembled,
and ready for quick
installation in the ceiling



3 years
WARRANTY

LMK LOFT LADDER DIAGRAM



LMK 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]		58x118.4	68x118.4	68x128.4	68x138.4	68x128.4	68x128.4	68x138.4
Internal box dimensions [cm]		54x114	64x114	64x124	64x134	54x124	64x124	64x134
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 [cm]	E	34						
Tread width [cm]		8						
Distance between treads [cm]		25						

LOFT LADDER

Commercial sizes [cm]		60x120	70x120	70x130	70x140	60x130	70x130	70x140
Room height [cm]	H	280				305		
Code		861401	861411	861412	861413	861451	861453	861454

order processing time 10 working days

Ladders are available only in sizes shown above.

METAL
LOFT LADDERS



METAL FOLDING SECTION LOFT LADDERS

LML
LUX



Steel frame integrated with a wooden box, metal architrave lining and quick installation brackets.



Mechanism hidden in the railing assists folding and unfolding the ladder.



Additional tread shortens the distance between the last tread and attic floor.



Telescopic stile ends allow quick adjusting the ladder length to the room height without trimming.

STANDARD
**EN
14975**

U=1.1
W/m²K

The **LML** section loft ladder with metal ladder is designed to provide the highest comfort of usage while simplifying the assembly process and adjusting the length to the room height.



telescopic stile ends



ladder unloading mechanism built in handrail



white hatch



system of quick installation in the ceiling



finishing lining slats



non-slip treads, 13cm in width



peripheral seal



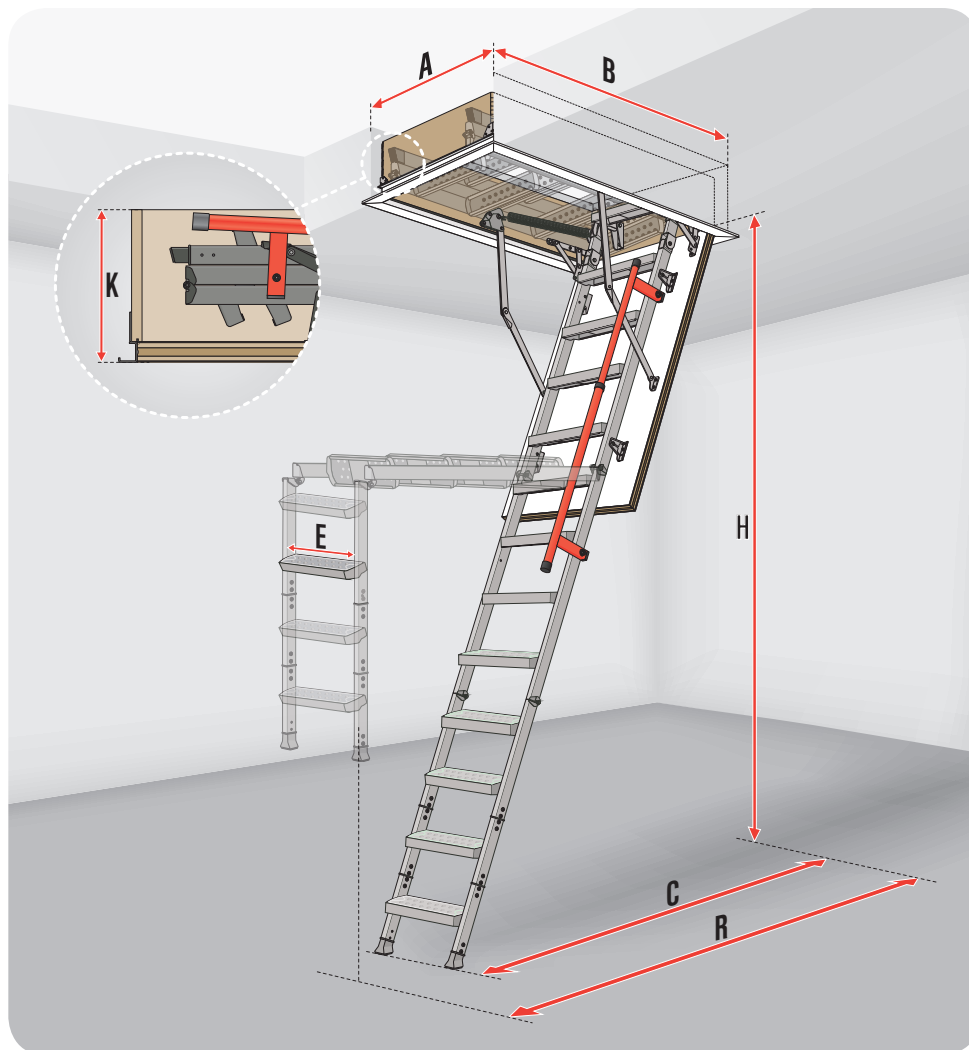
possibility of installing additional accessories-page 66-71

Technical specification:
permissible loading of 200 kg
heat transmission coefficient U = 1.1 W/m²K
insulation thickness 3 cm
hatch thickness 3.6 cm

fully assembled,
and ready for quick
installation in the ceiling



LML LUX LOFT LADDER DIAGRAM



LML LUX 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]		59.6 x 118.6	68.6 x 118.6	68.6 x 128.6	68.6 x 138.6	59.6 x 128.6	68.6 x 128.6	68.6 x 138.6
Internal box dimensions [cm]		55 x 114	64 x 114	64 x 124	64 x 134	55 x 124	64 x 124	64 x 134
Folded ladder height [cm]	K	31,5						
Swing space [cm]	R	165				176		
Distance after ladder unfolding [cm]	C	120				130		
Box height [cm]		31,5						

LADDER PARAMETERS

Tread length [cm]	E	35						
Tread width [cm]		13						
Distance between treads [cm]		25						

LOFT LADDER

Commercial sizes [cm]		60x120	70x120	70x130	70x140	60x130	70x130	70x140
Room height [cm]	H	280				305		
Code		862401	862411	862412	862413	862451	862453	862454

order processing time 15 working days
Ladders are available only in sizes shown above.

SCHODY SEGMENTOWE SKŁADANE Z METALOWĄ DRABINKĄ



EN 13501-2
EI₂ 120

STANDARD
EN 14975

U=0.7*
W/m²K

➤ The design of **LMF** loft ladder complies with stringent fire requirements, whilst providing safe and comfortable access to the loft spaces. The LMF ladder prevents smoke and fire from spreading to the upper or lower fire free storey for **120 minutes**.



Short distance between the last tread and attic floor



Integrated with steel frame the quick installation system reduces time required to settle loft ladder in the ceiling.



The special hatch design and materials used in its production protect for 120 min against the ingress of fire.



Mechanism hidden in the railing assists folding and unfolding the ladder.

* manufacturer's internal calculations



telescopic stile ends



ladder unloading mechanism built in handrail



fire-resistant hatch



system of quick installation in the ceiling



architrave lining



non-slip treads, 13 cm in width



seal



possibility of installing additional accessories-page 66-71

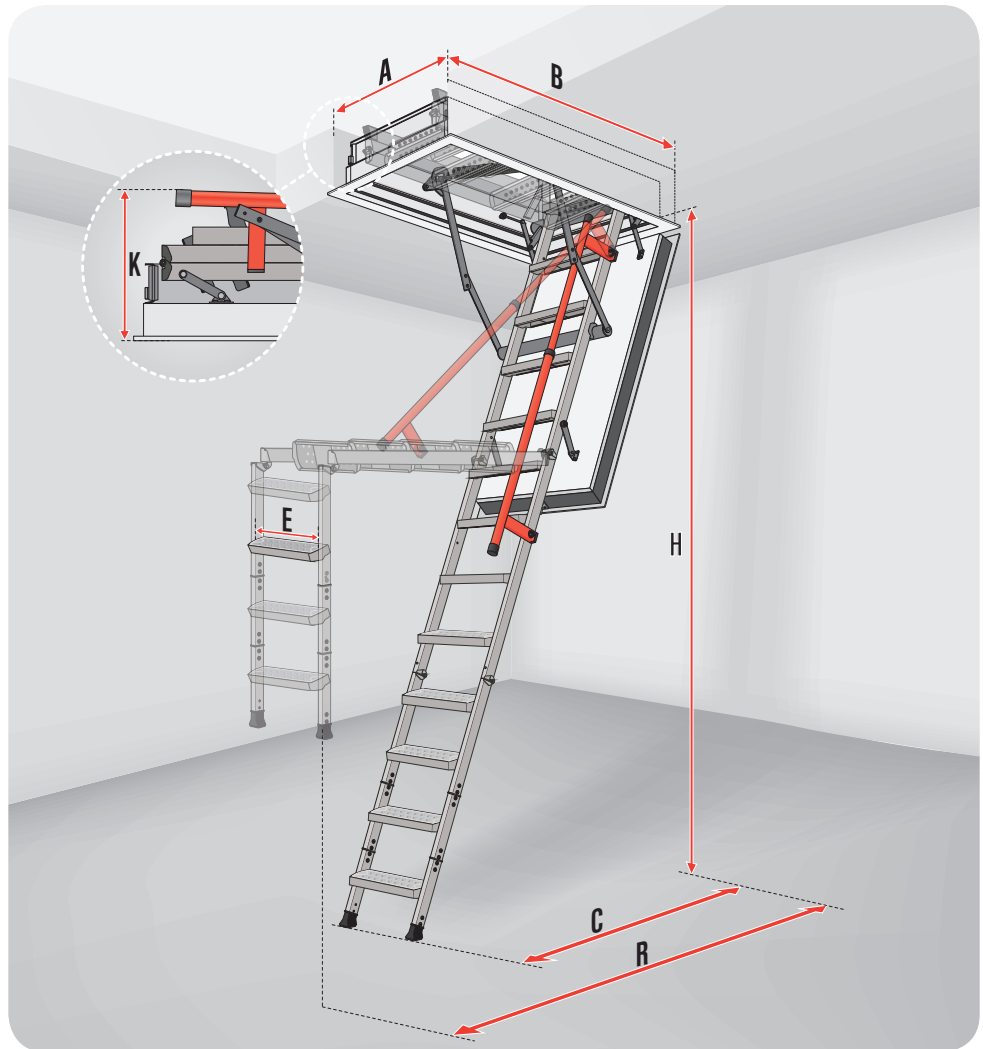
Technical specification:
defensible loading of 200 kg
fire-resistance EI₂=120 minutes
insulation thickness 8 cm
hatch thickness 8.2 cm

fully assembled,
and ready for quick
installation in the ceiling



3 years
WARRANTY

LMF LOFT LADDER DIAGRAM



LMF LOFT LADDER DIMENSIONS

Ceiling opening dimensions [cm]	AxB	60x120	70x120	70x130	70x140	86x130	70x130	70x140	86x130	
Room height [cm]	H	280						305		
Box external dimensions [cm]		59x118	68x118	68x128	68x138	84x128	68x128	68x138	84x128	
Internal box dimensions [cm]		55x114	64x114	64x124	64x134	80x124	64x124	64x134	80x124	
Folded ladder height [cm]	K	34								
Swing space [cm]	R	165						176		
Distance after ladder unfolding [cm]	C	120						130		
Box height [cm]		16								

LADDER PARAMETERS

Tread length [cm]	E	35							
Tread width [cm]		13							
Distance between treads [cm]		25							

LOFT LADDER

Commercial sizes [cm]		60x120	70x120	70x130	70x140	86x130	70x130	70x140	86x130	
Room height [cm]	H	280						305		
Code		862501	862511	862512	862513	862596	862553	862554	862597	

order processing time 15 working days

Ladders are available only in sizes shown above.

SCISSORS LOFT
LADDERS



SCISSORS
LOFT LADDERS

► BOX

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

► HATCH UNLOADING MECHANISM

The used mechanism significantly simplifies ladder operation. The hatch after unlocking opens slowly without causing any hazard to the user. In addition, the mechanism maintains the hatch in fully open position, prevents it from spontaneous closing during unfolding and folding the ladder.

► HARDWARE

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

► HATCH

Scissors loft ladders as standard are equipped with white insulated or fire-resistant hatches, made of wood or wood and metal. The external hatch surface is smooth, so goes well with any interior design.

► TREAD

The specially embossed pattern on the tread surface protects the user from accidental slipping while using the loft 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 50x70 cm). 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

SCISSORS LOFT LADDERS

LST

STANDARD
**EN
14975**

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 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 metal architrave lining and quick-installation brackets



white hatch



possibility of adding or detaching segment



Architrave lining



system of quick installation in the ceiling



peripheral seal



system of adapting the ladder length to the ceiling height



non-slip treads



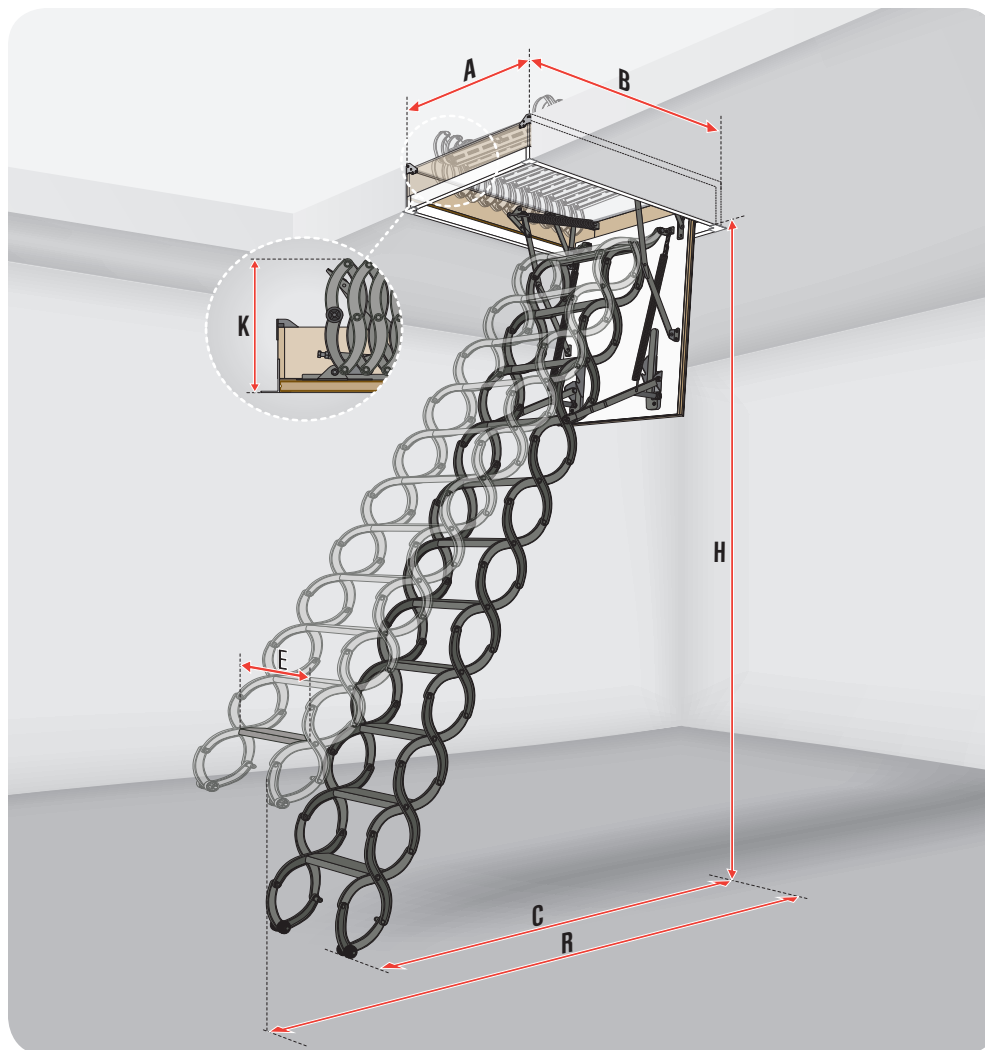
possibility of installing additional accessories

Technical specification:
permissible loading of 200 kg
heat transmission coefficient U = 1.1 W/m²K
insulation thickness 3 cm
hatch thickness 3.6 cm

fully assembled,
and ready for quick
installation in the ceiling



LST LOFT LADDER DIAGRAM



LST LOFT LADDER DIMENSIONS

		Standard ladder length				
Ceiling opening dimensions [cm]	AxB	51x80	60x90	60x120	70x80	70x120
Room height [cm]	H	250 – 280				
Box external dimensions [cm]		51x79.4	59x89.4	59x119.4	69x79.4	69x119.4
Internal box dimensions [cm]		46x74	54x84	54x114	64x74	64x114
Folded ladder height [cm]	K	38,2				
Swing space [cm]	R	150				
Distance after ladder unfolding [cm]	C	146 – 134				
Box height [cm]		18				

PARAMETRY DRABINEK

Tread length [cm]	E	26	30	38
Tread width [cm]		8		
Distance between treads [cm]		24-26		
Standard number of treads [units]		11		
Compatible tread LSS		LSS-26	LSS-31	LSS-38

LOFT LADDER

Commercial sizes [cm]		51x80	60x90	60x120	70x80	70x120
Room height [cm]	H	250 – 280				
Code		860402	860432	860423	860426	860436

Ladder shorter by 1 tread (10-tread ladder)	Standard ladder (11-tread ladder)	Ladder longer by 1 tread (12-tread ladder)	Ladder longer by 2 treads (13-tread ladder)
230	250	250	280
		280	300
			300
			330
Sizes and dimensions of loft ladder not included into the table are identical with those for heights 250-280cm			
140	150	160	170
135	127	146	134
		153	145
			163
			150

Code	860204	860205	860206
tread*	LSS-26	LSS-31	LSS-38
ladder width[cm]	51	60	70

order processing time 10 working days
Ladders are available only in sizes shown above.

* while ordering LSS tread- the ladder commercial size and type has to be provided

SCISSORS
LOFT LADDERS

SCISSORS LOFT LADDERS

LSZ

STANDARD
**EN
14975**

U=1.1
W/m²K

The **LSZ** loft ladder structure is the same as the LST model except for the box structure which in case of LSZ consists of a metal framework integrated with wooden box, finishing lining slats and quick installation brackets. There is a possibility to prolong the ladder height maximum up to two LSS treads.

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



white hatch



possibility of adding or detaching segment



finishing lining slats



system of quick installation in the ceiling



peripheral seal



system of adapting the ladder length to the ceiling height



non-slip treads



possibility of installing additional accessories

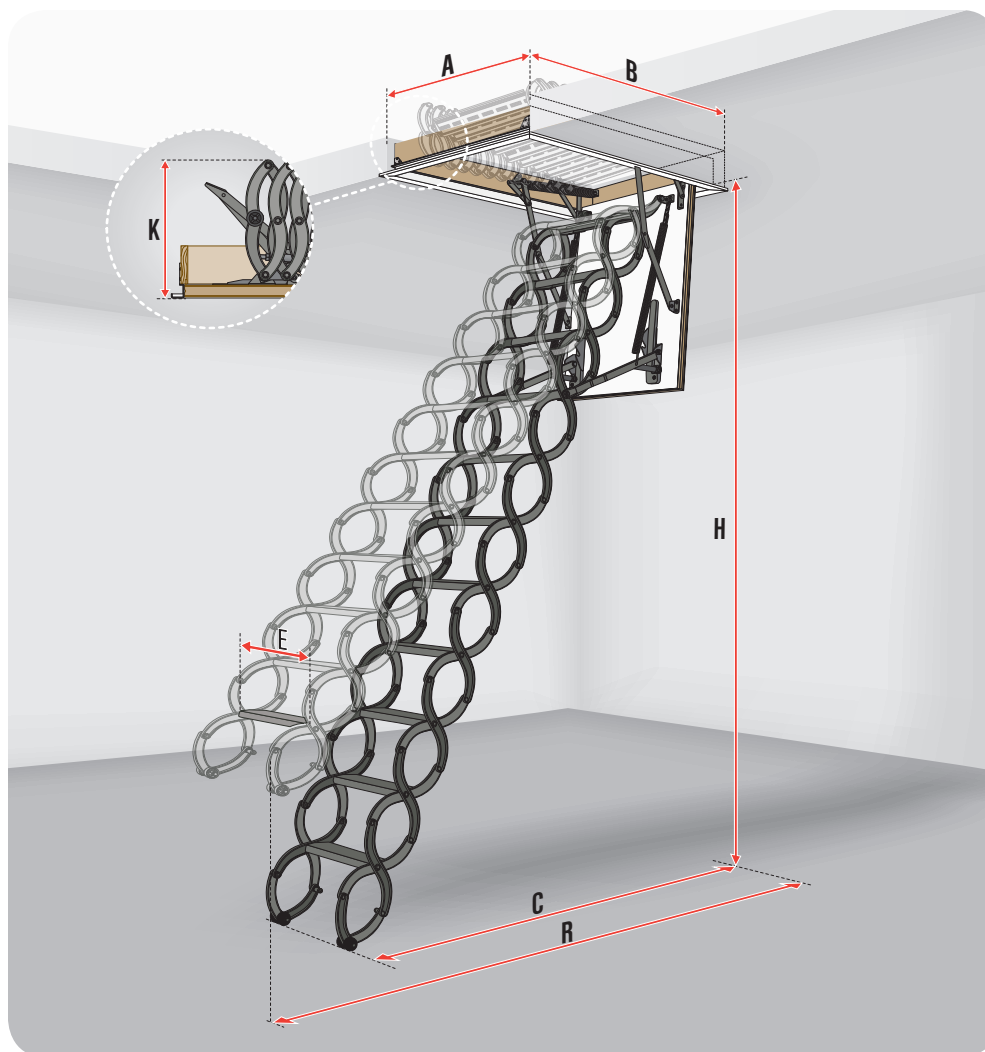
Technical specification:
permissible loading of 200 kg
heat transmission coefficient $U = 1.1 \text{ W/m}^2\text{K}$
insulation thickness 3 cm
hatch thickness 3.6 cm

fully assembled,
and ready for quick
installation in the ceiling



3 years
WARRANTY

LSZ LOFT LADDER DIAGRAM



LSZ LOFT LADDER DIMENSIONS

		Standard ladder length		
Ceiling opening dimensions [cm]	AxB	51x80	70x80	70x120
Room height [cm]	H	250 – 280		
Box external dimensions [cm]		51x79.4	69x79.4	69x119.4
Internal box dimensions [cm]		46x74	64.8x74	64.8x114
Folded ladder height [cm]	K	38,5		
Swing space [cm]	R	150		
Distance after ladder unfolding [cm]	C	146 – 134		
Box height [cm]		14		

LADDER PARAMETERS

Tread length [cm]	E	26	38
Tread width [cm]		8	
Distance between treads [cm]		24-26	
Standard number of treads [units]		11	
Compatible tread LSS		LSS-26	LSS-38

LOFT LADDER

Commercial sizes [cm]		51x80	70x80	70x120
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Room height [cm]	H	250 – 280		
Code		860502	860532	860536

order processing time 10 working days
Ladders are available only in sizes shown above.

Ladder shorter by 1 tread (10-tread ladder)	Standard ladder (11-tread ladder)	Ladder longer by 1 tread (12-tread ladder)	Ladder longer by 1 tread (12-tread ladder)
230	250	250	280
		280	300
		300	330
Sizes and dimensions of loft ladder not included into the table are identical with those for heights 250-280cm			
140	150	160	170
135	127	146	134
		153	145
		163	150

Code	860204	860206
tread*	LSS-26	LSS-38
ladder width[cm]	51	70

* while ordering LSS tread- the ladder commercial size and type has to be provided

METAL SCISSORS
LOFT LADDERS

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.

*manufacturer's internal calculations



fire-resistant hatch



system of quick installation in the ceiling



architrave lining



system dopasowania długości drabinki do wysokości pomieszczenia



non-slip treads



możliwość montażu dodatkowych akcesoriów – str. 66-71



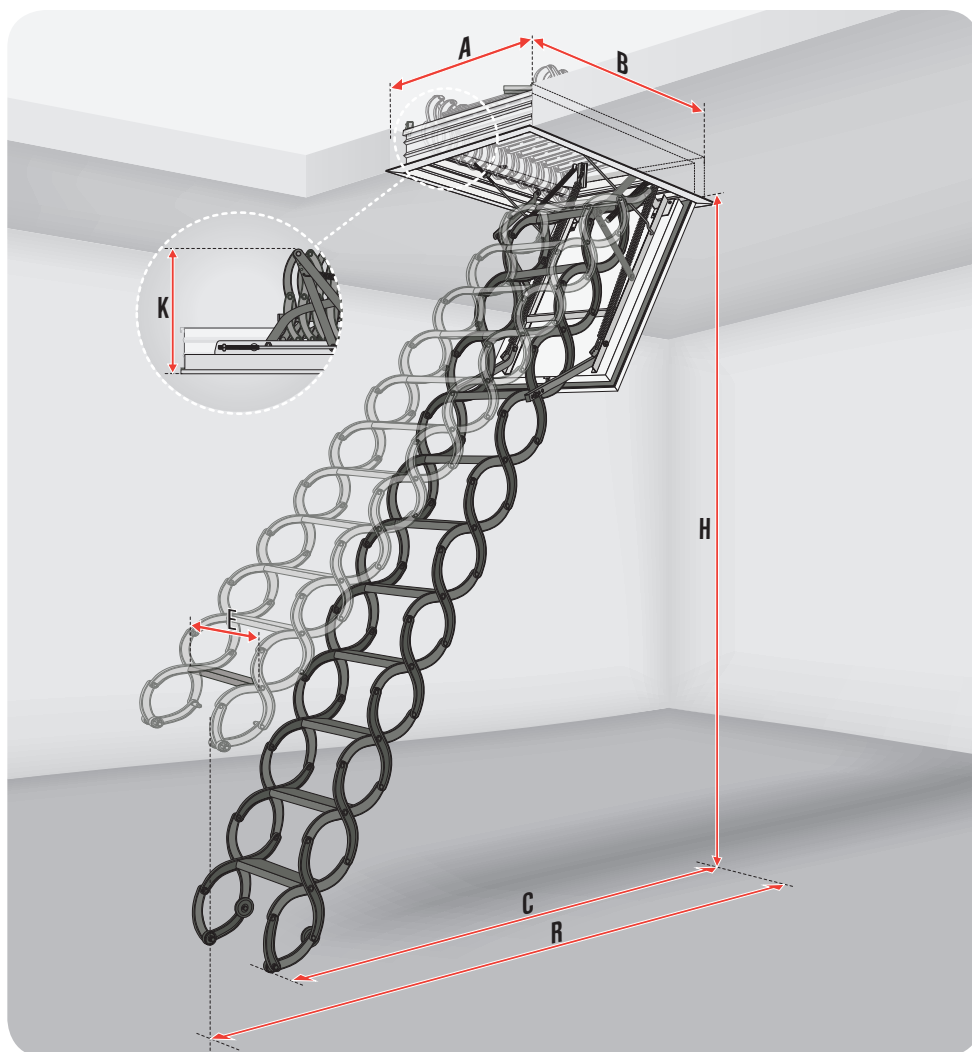
possibility of adding or detaching segment

Technical specification:
permissible loading of 200 kg
fire-resistance EI₂=60 minutes
insulation thickness 3 cm
hatch thickness 5.4 cm

fully assembled,
and ready for quick
installation in the ceiling



LSF LOFT LADDER DIAGRAM



LSF LOFT LADDER DIMENSIONS

		Standard ladder length						
Ceiling opening dimensions [cm]	AxB	50x70	60x90	60x120	70x80	70x90	70x110	70x120
Room height [cm]	H	270 – 300						
Box external dimensions [cm]		48x68.5	58x88.5	58x118.5	68x78.5	68x88.5	68x108.5	68x118.5
Internal box dimensions [cm]		44.8x64.8	54.8x84.8	54.8x114.8	64.8x74.8	64.8x84.8	64.8x104.8	64.8x114.8
Folded ladder height [cm]	K	46						
Swing space [cm]	R	170 – 180						
Distance after ladder unfolding [cm]	C	165 – 130						
Box height [cm]		14						

LADDER PARAMETERS

Tread length [cm]	E	30	32	40
Tread width [cm]		8		
Distance between treads [cm]		25 – 30		
Standard number of treads [units]		10		
Compatible tread LSS		LSS-30	LSS-32	LSS-40

LOFT LADDER

Commercial sizes [cm]	50x70	60x90	60x120	70x80	70x90	70x110	70x120
Room height [cm]	270 – 300						
Code	860101	860123	860126	860132	860133	860135	860136

Ladder shorter by 1 tread (9-tread ladder)		Standard ladder (10-tread ladder)		Ladder longer by 1 tread (11-tread ladder)	
240	270	270	300	300	320
Sizes and dimensions of loft ladder not included into the table are identical with those for heights 250-280cm					
165	165	170	180	185	210
100	140	165	130	120	140

Code	860201	860202	860203
tread*	LSS-30	LSS-32	LSS-40
ladder width [cm]	50	60	70

order processing time 10 working days

Ladders are available only in sizes shown above.

* while ordering LSS tread- the ladder commercial size and type has to be provided

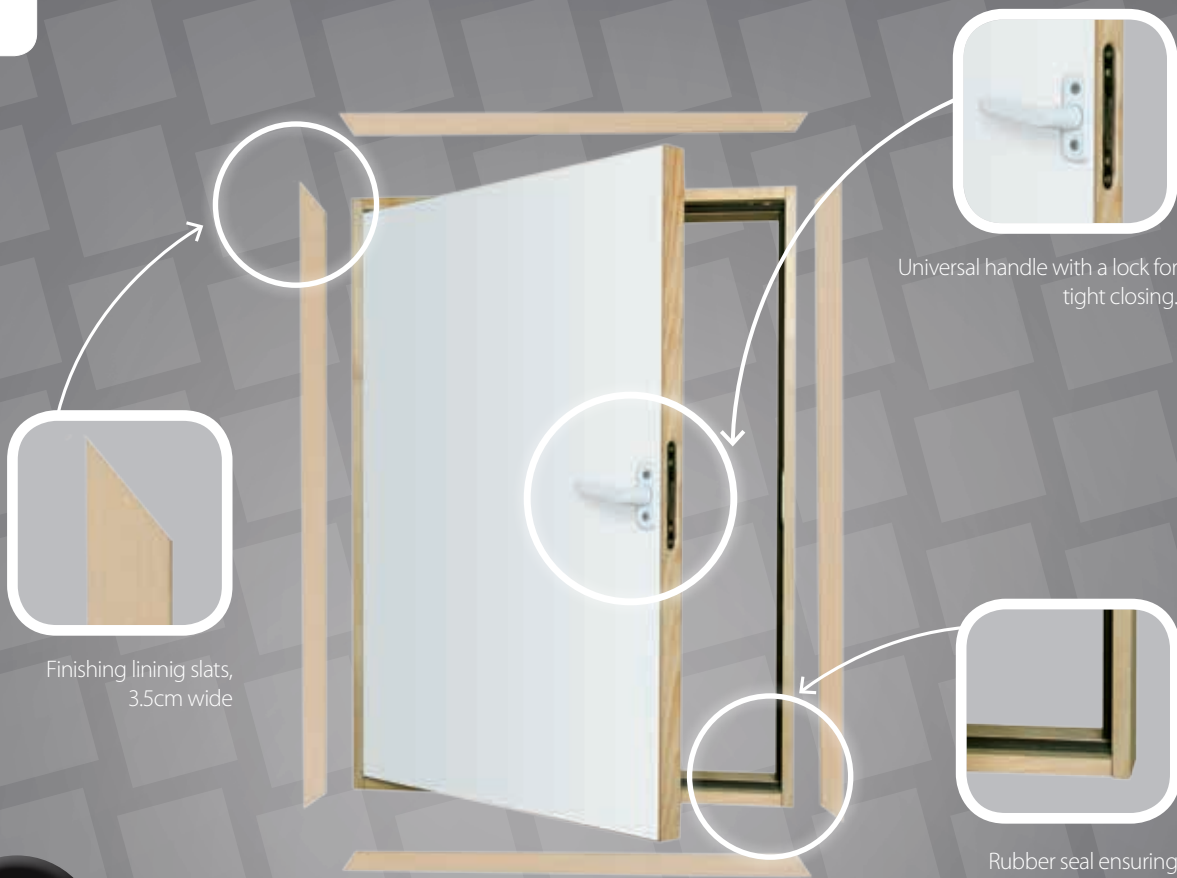
WOODEN
DOORS



L-SHAPED COMBINATION DOORS

The **DWK** L-Shaped Combination Doors intended to be built into L-shaped walls, provide access to the unused space behind. Excellent thermal insulation parameters ($U = 1.1 \text{ W / m}^2\text{K}^*$) along with high tightness keep the heat-loss at minimum. The doors may be installed in the right or left side opening versions. The standard doors are equipped with 3.5 cm wide natural colour finishing slats. The 3.6 cm thick insulated sash made as pine wood frame is veneered on both sides with white HDF panel.

DWK



Finishing lining slats,
3.5cm wide

Universal handle with a lock for
tight closing.

Rubber seal ensuring
proper tightness

U=1.1*
W/m²K

*manufacturer's internal calculations



architrave lining



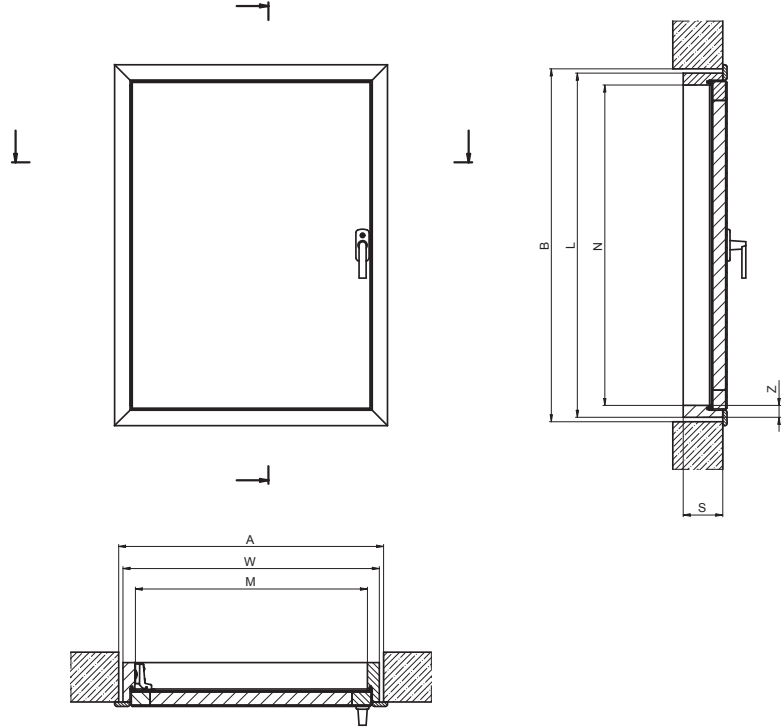
Technical specification:
heat transmission coefficient $U = 1.1 \text{ W / m}^2\text{K}$
insulation thickness 3 cm

fully assembled,
and ready for quick
installation in the ceiling



3 years
WARRANTY

DWK DOOR DIAGRAM



DWK L-SHAPED DOORS DIMENSIONS

Opening dimensions [cm]	AxB	55x80	60x80	60x100	60x110	70x90	70x100	70x110
Door dimensions [cm]	WxL	53.4x78.4	58.4x78.4	58.4x98.4	58.4x108.4	68.4x88.4	68.4x98.4	68.4x108.4
Frame internal dimensions [cm]	MxN	48x73	53x73	53x93	53x103	63x83	63x93	63x103
Frame width [cm]	S	9						
Frame thickness [cm]	Z	2,7						

L-SHAPED DOORS

Commercial sizes [cm]	55x80	60x80	60x100	60x110	70x90	70x100	70x110
Code	869900	869922	869924	869925	869933	869934	869935

order processing time 10 working days
 DWK doors are available only in sizes shown above.

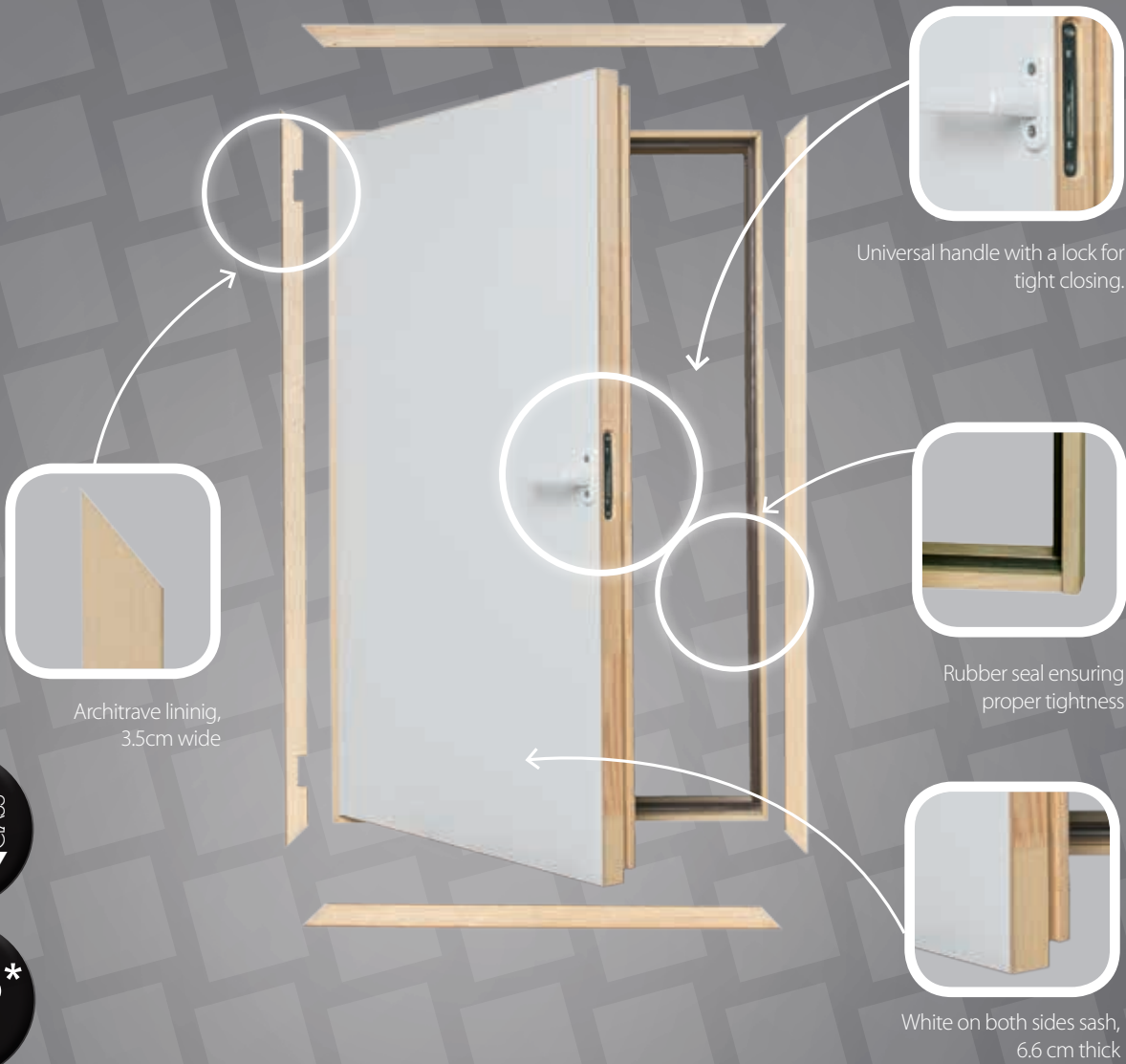
WOODEN
DOORS



HIGHLY ENERGY EFFICIENT WOODEN DOORS

The **DWT** highly energy efficient I-shaped doors are designed primarily for installation in I-shaped walls, provide access to the room behind and at the same time constitute an excellent barrier against heat loss (heat transfer coefficient $U = 0.6 \text{ W / m}^2\text{K}^*$) and guarantee high tightness. The door can be installed in the right or left side opening versions. They are as standard equipped with wooden finishing slats in natural colour.

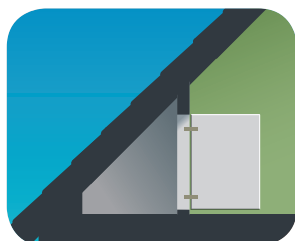
DWT
HIGHLY ENERGY
EFFICIENT



4th
CLASS
EN12207

U=0.6*
W/m²K

*manufacturer's internal calculations



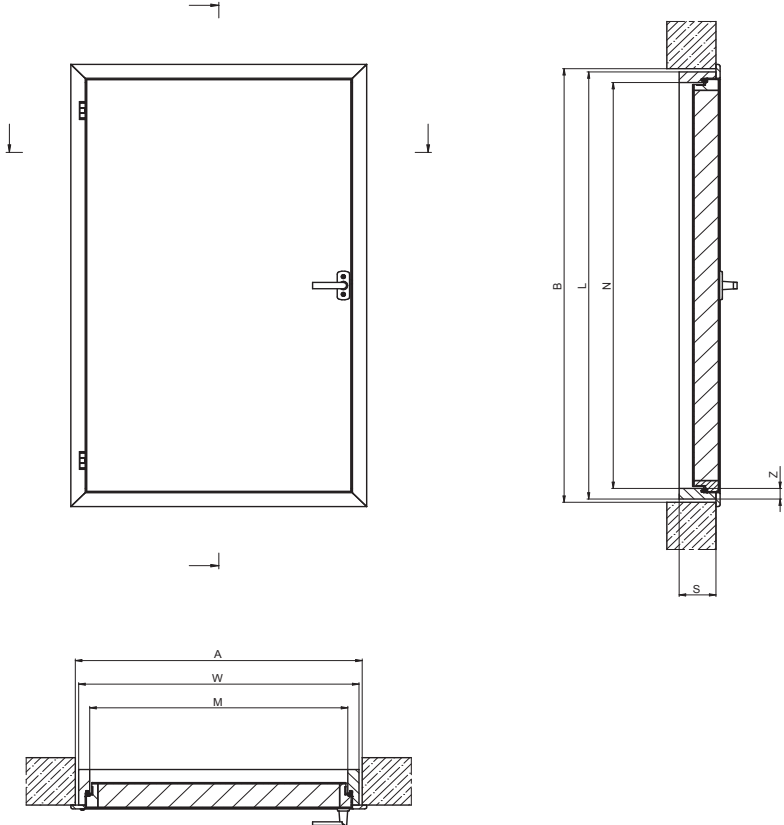
Technical specification:
heat transmission coefficient $U = 0.6 \text{ W / m}^2\text{K}$
insulation thickness 3 cm

fully assembled,
and ready for quick
installation in the ceiling



3 years
WARRANTY

DWT DOOR DIAGRAM



DWT L-SHAPED DOORS DIMENSIONS

Opening dimensions [cm]	AxB	55x80	60x80	60x100	60x110	70x90	70x100	70x110
Door dimensions [cm]	WxL	53.4x78.4	58.4x78.4	58.4x98.4	58.4x108.4	68.4x88.4	68.4x98.4	68.4x108.4
Frame internal dimensions [cm]	MxN	48x73	53x73	53x93	53x103	63x83	63x93	63x103
Frame width [cm]	S	9						
Frame thickness [cm]	Z	2,7						

L-SHAPED DOORS

Commercial sizes [cm]	55x80	60x80	60x100	60x110	70x90	70x100	70x110
Code	869600	869622	869624	869625	869633	869634	869635

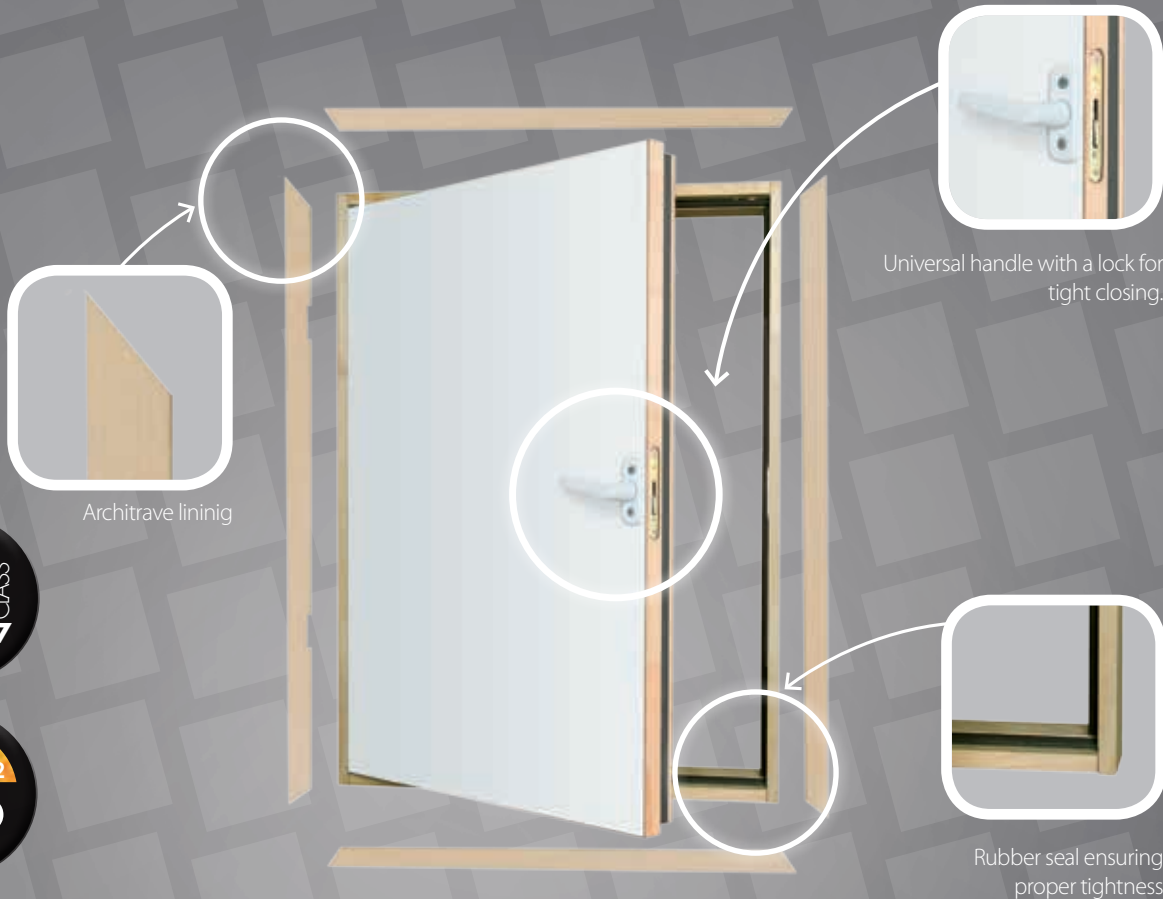
order processing time 15 working days
 DWT doors are available only in sizes shown above.

WOODEN
DOORS



L-SHAPED COMBINATION DOORS

The **DWF** L-shaped combination fire-resistant doors, provide access to the unused space behind and at the same time ensuring a high level of fire safety on both sides of doors (fire resistance is EI/EI =45 minutes, satisfies the requirements of EN,3501). The white, 6.6cm thick sash with thermo-insulating material, provides an excellent barrier reducing heat loss ($U=0.64 \text{ W/m}^2\text{K}^*$). The doors may be installed in two versions of opening (right or left), and as standard are also equipped with 3.5cm wide lining in natural colour.



Architrave lining

Universal handle with a lock for tight closing.

Rubber seal ensuring proper tightness

4th
CLASS
EN12207

EN 13501-2
EI, 45

U=0.64*
W/m²K

*manufacturer's internal calculations



architrave lining



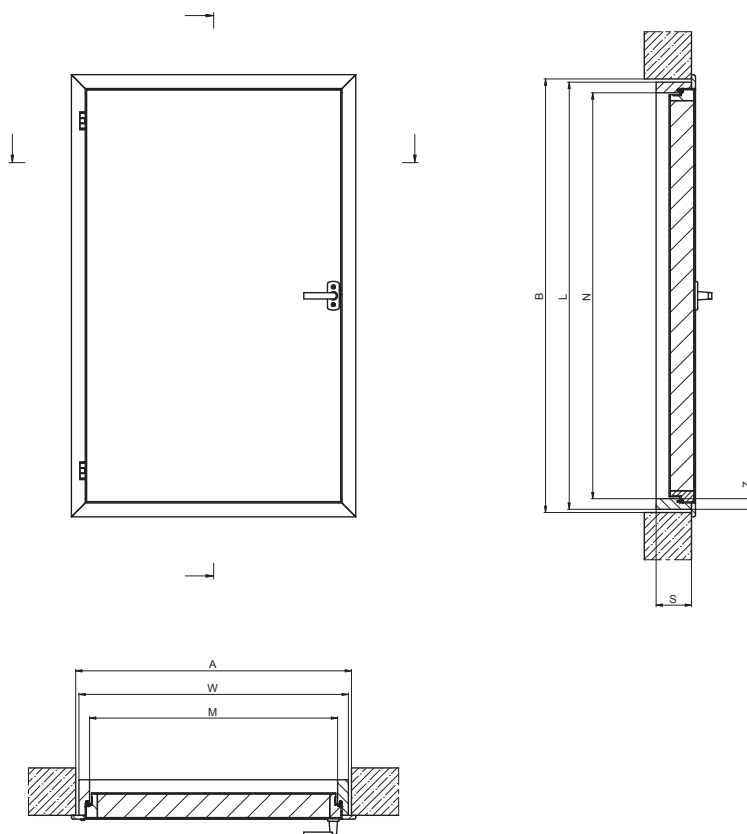
Technical specification:
fire-resistance EI₁/EI₂=45minutes
heat transmission coefficient U = 0.64 W/m²K
insulation thickness 6 cm

fully assembled,
and ready for quick installation in the ceiling



3years
WARRANTY

DWF DOOR DIAGRAM



DWF L-SHAPED DOORS DIMENSIONS

Opening dimensions [cm]	AxB	55x80	60x80	60x100	60x110	70x90	70x100	70x110
Door dimensions [cm]	WxL	53.4x78.4	58.4x78.4	58.4x98.4	58.4x108.4	68.4x88.4	68.4x98.4	68.4x108.4
Frame internal dimensions [cm]	MxN	48x73	53x73	53x93	53x103	63x83	63x93	63x103
Frame width [cm]	S	9						
Frame thickness [cm]	Z	2,7						

L-SHAPED DOORS

Commercial sizes [cm]	55x80	60x80	60x100	60x110	70x90	70x100	70x110
Code	869800	869822	869824	869825	869833	869834	869835

order processing time 15 working days

DWF doors are available only in sizes shown above.

MILLER STAIRCASE

MILLER STAIRCASE

It will prove ideal in areas where space is at a premium but frequent traffic is essential. It constitutes a perfect solution for summer houses, mezzanines or habitable loft spaces. The Miller Staircase provides a safe, simple and convenient means of communication between floors.

MILLER STAIRCASE



MSP Pivot

SPACE SAVING

SPACE SAVING

The staircase has been designed with the user's convenience and comfort in mind with a particular focus on retaining its compact size for easy fit in small rooms.

SPACE SAVING



EASY INSTALLATION

EASY

EASY INSTALLATION

The staircase is installed in a very easy and quick way using only basic tools.

WARRANTY

WARRANTY

FAKRO Miller Staircases come with a 3-year warranty.

WARRANTY



MSU Universal

MSA Altero

MSS Superior

MSW Winder

WOODEN
STATIONARY
STAIRCASE



MILLER STAIRCASE

NEW!

The **MSP Pivot** leaning staircase thanks to its special design and the use of lightweight spruce wood can be folded away freeing up the space around the staircase when it is not in use. For added safety and comfort as standard the staircase is equipped with a handrail which can be mounted on the left- or right-hand side.

**MSP
PIVOT**



Patent-pending mechanism for folding away when not used.



Equipped with handrail to be fixed on the left or on the right.



Patent-pending mechanism for folding away when not used.



ready to be painted



easy height adjustment



supplied with installation kit

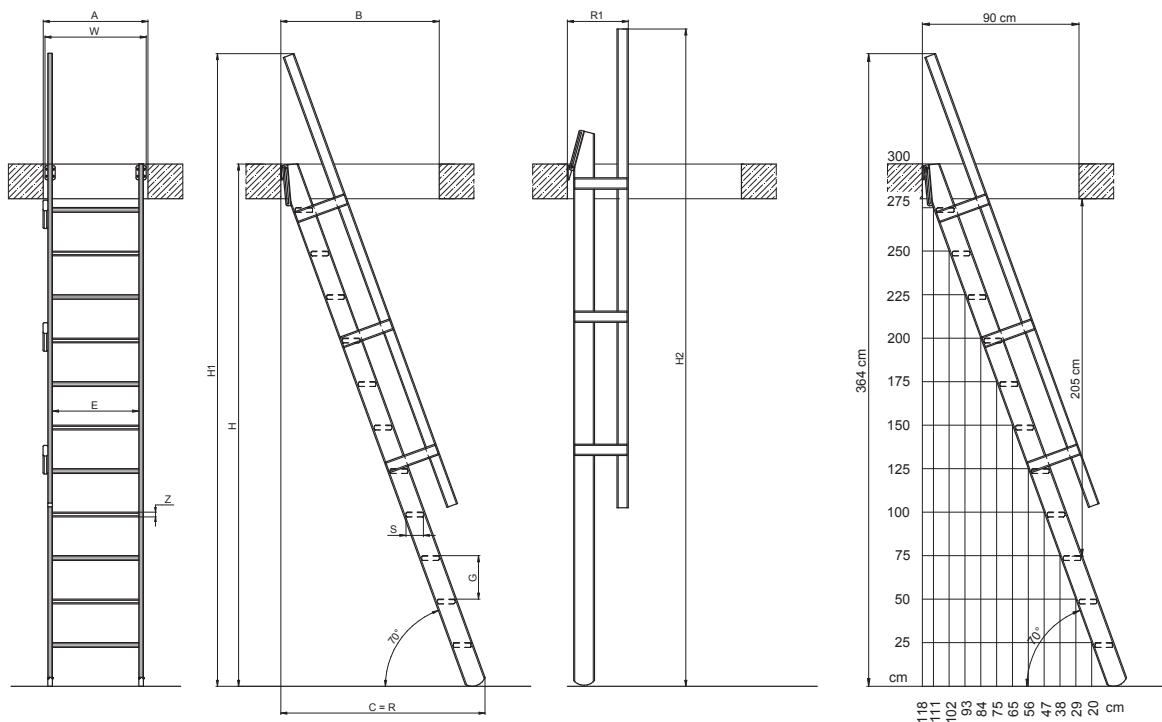
Technical specification:
permissible load 160 kg
ladder inclination 70°

DIY installation



3 years
WARRANTY

MSP PIVOT STAIRCASE DIAGRAM



MPS STAIRCASE DIMENSIONS

Size		55 cm
Max. floor height [cm]	H	300
Installed staircase height with handrail [cm]	H1	364
Folded staircase height with handrail [cm]	H2	378
Min. ceiling opening dimensions [cm]	AxB	60x90
Distance occupied by staircase on the floor [cm]	C	118
Distance occupied by staircase on the floor with handrail [cm]	R	118
Distance occupied by staircase after folding [cm]	R1	35
Staircase width [cm]	W	59
Number of treads [pcs]		11
Distance between treads [cm]	G	25
Tread thickness [cm]	Z	2.7
Tread width [cm]	E	50
Tread depth [cm]	S	10
Ladder inclination [°]		70

MPS MILLER STAIRCASE

Size	55 cm
Code	869742

order processing time 10 working days

Staircase are available only in sizes shown above.

WOODEN
STATIONARY
STAIRCASE



MILLER STAIRCASE

**MSU
UNIVERSAL**

The **MSU Universal** is the most popular straight miller staircase made of solid spruce wood. The straight treads with fixed width, lightweight latticework construction and the appropriately selected inclination of the ladder guarantee outstanding functionality and optimal comfort while moving between floors. The staircase can be successfully utilised as a long term solution in private homes, summer houses or apartments as well as on a temporary bases wherever ensuring safe communication is required. The staircase can be additionally fitted with a handrail mounted on the right or on the left.



Robust tenon connections of treads in stringers strengthened with screws supplied with the staircase



MXH safety handrail mounted on the right or left side of the staircase - as an accessory.



ready to be painted



can be fitted with accessories



easy height adjustment



supplied with installation kit

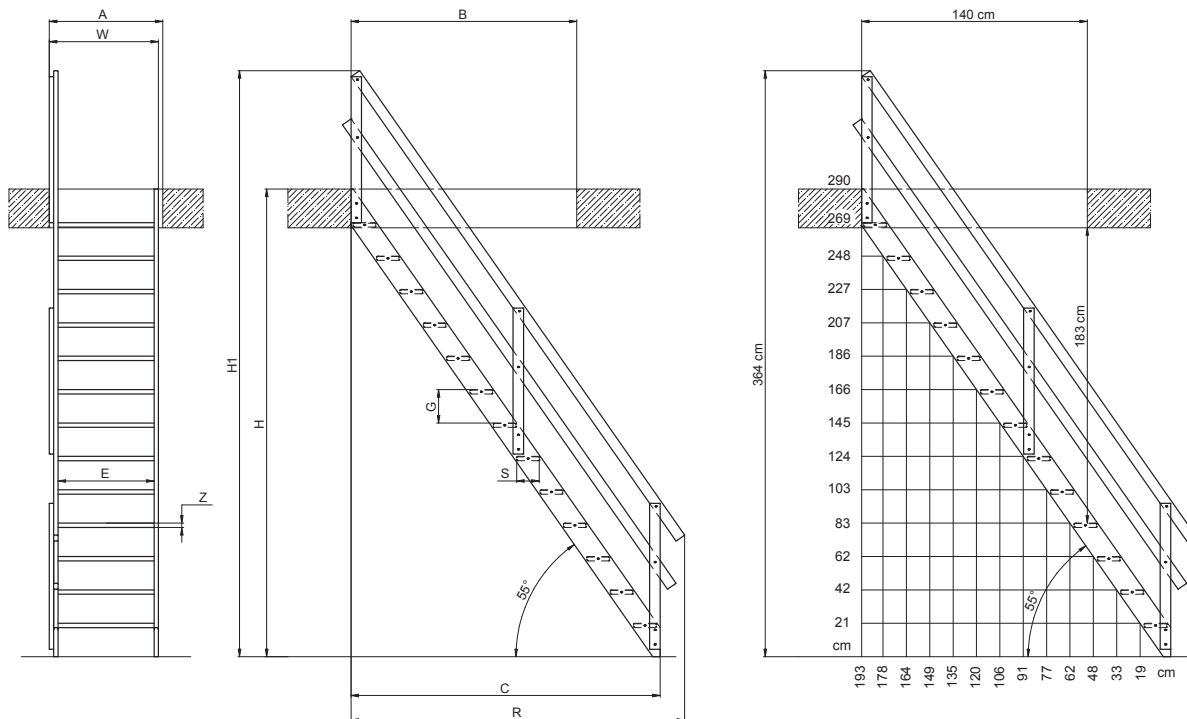
Technical specification:
dopuszczalne obciążenie 160 kg
kąt nachylenia schodów 55°

DIY installation



3 years
WARRANTY

SCHEMAT SCHODÓW MSU UNIVERSAL



MPU STAIRCASE DIMENSIONS

Size		65cm
Max. floor height [cm]	H	290
Installed staircase height with handrail [cm]	H1	364
Min. ceiling opening dimensions [cm]	AxB	70x140
Distance occupied by staircase on the floor [cm]	C	192
Distance occupied by staircase on the floor with handrail [cm]	R	207
Staircase width [cm]	W	65
Number of treads [pcs]		13
Distance between treads [cm]	G	21
Tread thickness [cm]	Z	2.7
Tread width [cm]	E	60
Tread depth [cm]	S	14
Ladder inclination [°]		55

MSU MILLER STAIRCASE

Size	65cm
Code	66810

MXH handrail

Code	62028
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order processing time 10 working days
Staircase is available only in size shown above.

WOODEN
STATIONARY
STAIRCASE

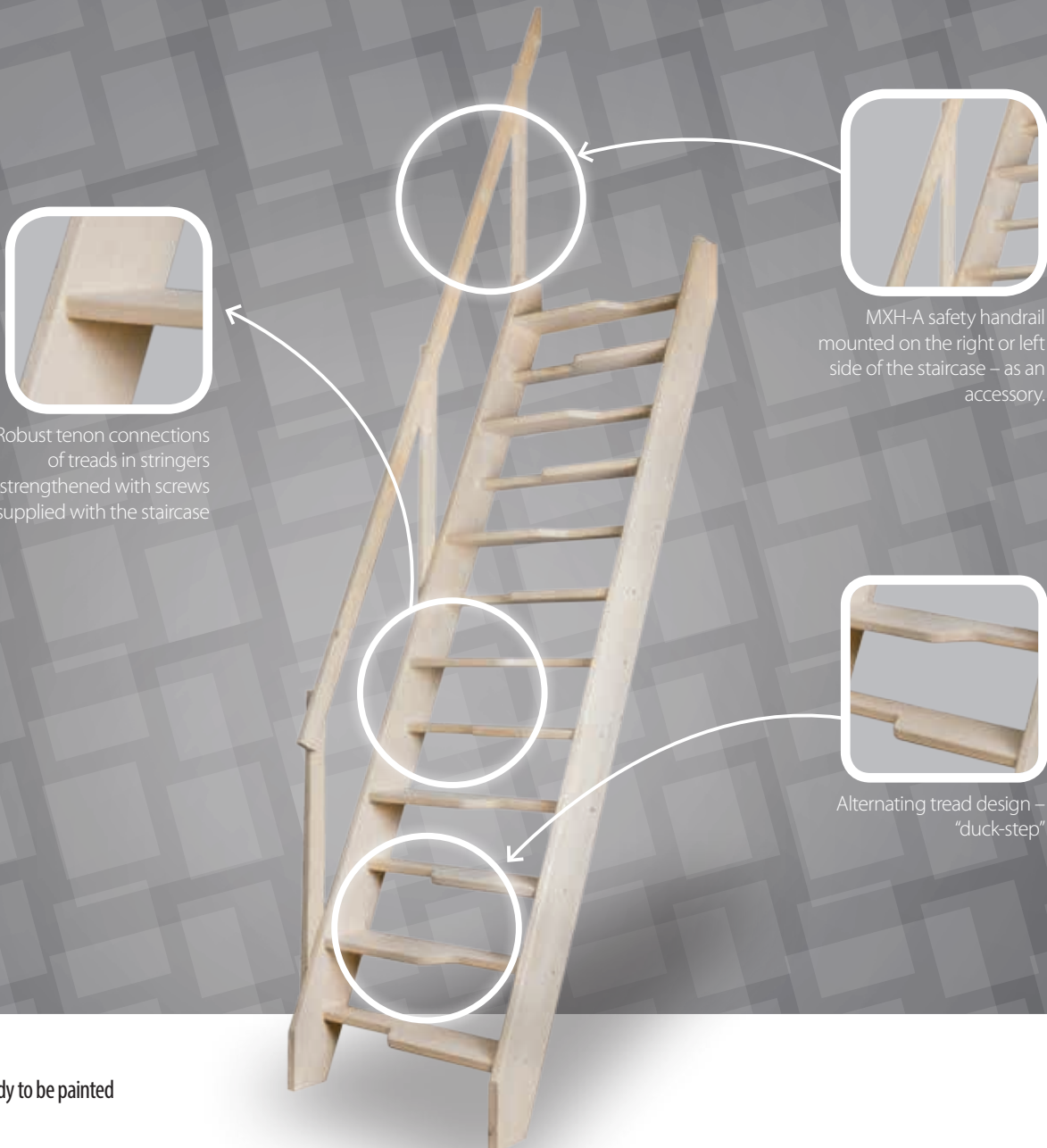


MILLER STAIRCASE

NEW!

**MSA
ALTERO**

The **MSA Altero** staircase with alternating tread design (so called "duck-step") provides optimal level of comfort despite its significant steepness. The alternating tread staircase is ideal for rooms with limited floor space or where small openings in the ceiling restrict the free space above the stairs. As standard, the staircase comes without a handrail but it is possible to purchase the MXH-A handrail and mount it on either side of the run of the stairs.



Robust tenon connections of treads in stringers strengthened with screws supplied with the staircase

MXH-A safety handrail mounted on the right or left side of the staircase – as an accessory.

Alternating tread design – "duck-step"



ready to be painted



can be fitted with accessories



easy height adjustment



supplied with installation kit

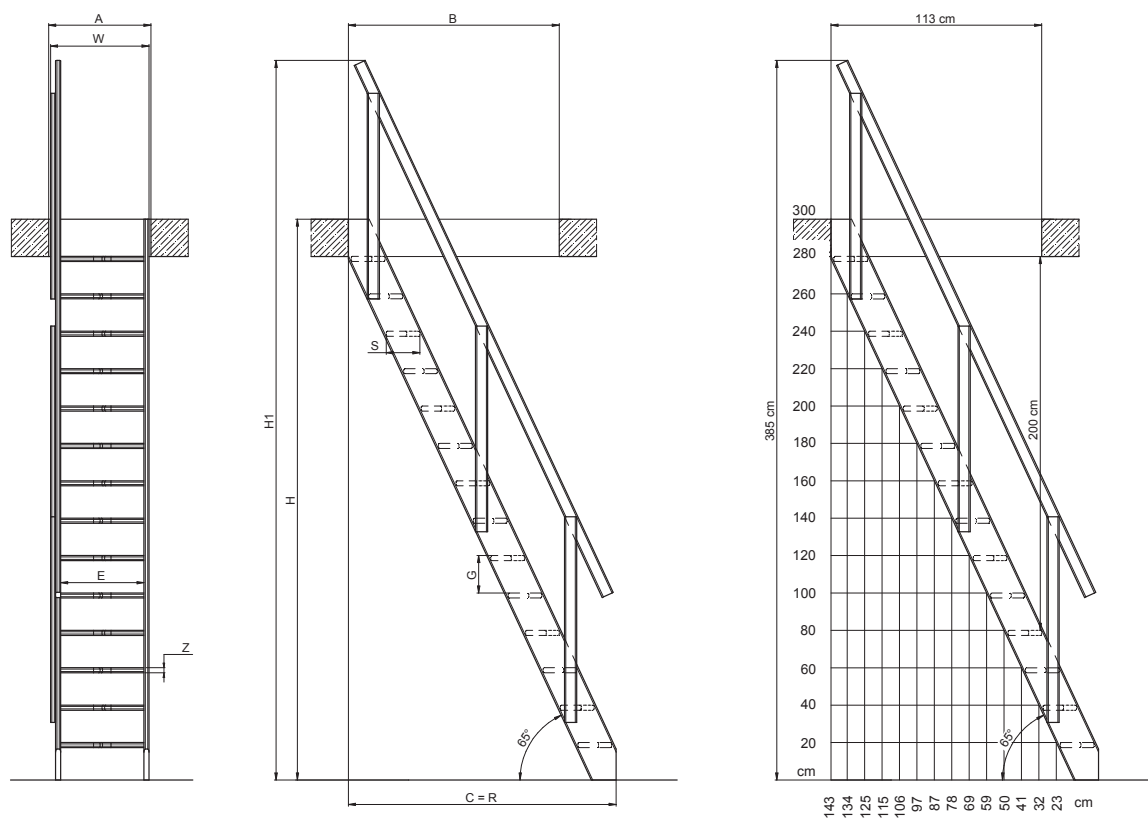
Technical specification:
permissible load 160 kg
ladder inclination 65°

DIY installation



3 years
WARRANTY

MSA ALTERO STAIRCASE DIAGRAM



MPU STAIRCASE DIMENSIONS

Size		60 cm
Max. floor height [cm]	H	300
Installed staircase height with handrail [cm]	H1	385
Min. ceiling opening dimensions [cm]	AxB	64x113
Distance occupied by staircase on the floor [cm]	C	144
Distance occupied by staircase on the floor with handrail [cm]	R	144
Staircase width [cm]	W	63
Number of treads [pcs]		14
Distance between treads [cm]	G	20
Tread thickness [cm]	Z	2.7
Tread width [cm]	E	55
Tread depth [cm]	S	18/11
Ladder inclination [°]		65

MSA MILLER STAIRCASE

Size	60 cm
Code	869743

MXH-A handrail

Code	869747
------	---------------

order processing time 10 working days
Staircase is available only in size shown above.

WOODEN
STATIONARY
STAIRCASE



MILLER STAIRCASE

NEW!

**MSS
SUPERIOR**

The **MSS Superior** Miller Staircase is largest of all our models of miller staircases, characterised by a robust and durable design. In order to increase the comfort and safety of use the Superior staircase utilises wider and longer treads and more gentle inclination angle of the ladder. The staircase is made of light spruce, prepared for any colouring. The supplied instructions make adjusting the staircase to the ceiling height a very easy task for the customer. As standard, the staircase comes without a handrail but it is possible to purchase the MXH-S handrail and mount it on either side of the stairs.



Robust tenon connections of treads in stringers strengthened with screws supplied with the staircase.



MXH-S safety handrail mounted on the right or left side of the staircase - as an accessory.



ready to be painted



can be fitted with accessories



easy height adjustment



supplied with installation kit

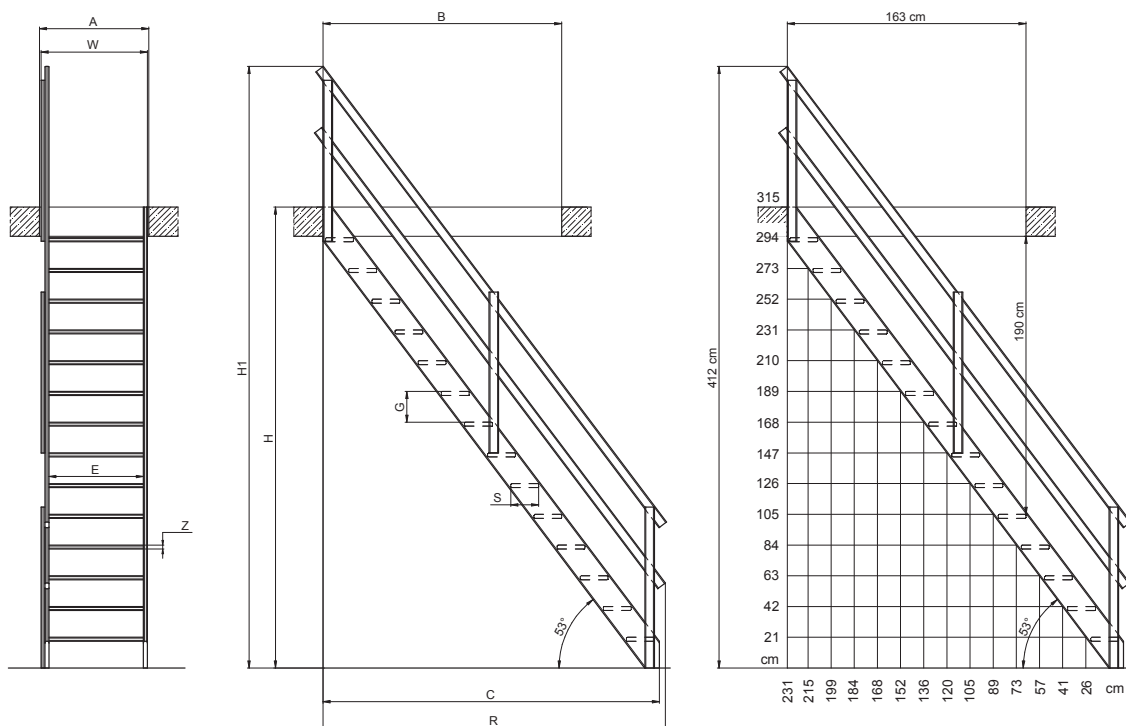
Technical specification:
permissible load 160 kg
ladder inclination 53°

DIY installation



3 years
WARRANTY

MSS SUPERIOR STAIRCASE DIAGRAM



MSS STAIRCASE DIMENSIONS

Size		70 cm
Max. floor height [cm]	H	315
Installed staircase height with handrail [cm]	H1	412
Min. ceiling opening dimensions [cm]	AxB	75x163
Distance occupied by staircase on the floor [cm]	C	230
Distance occupied by staircase on the floor with handrail [cm]	R	234
Staircase width [cm]	W	73
Number of treads [pcs]		14
Distance between treads [cm]	G	21
Tread thickness [cm]	Z	2.7
Tread width [cm]	E	65
Tread depth [cm]	S	19
Ladder inclination [°]		53

MSS MILLER STAIRCASE

Size	70 cm
Code	869744

MXH-S handrail

Code	869748
------	---------------

order processing time 10 working days

Staircase is available only in size shown above.

WOODEN
STATIONARY
STAIRCASE



MSW WINDER FOR MSS MILLER STAIRCASE

NEW!

MSW-L

MSW-R
WINDER

The **MSW Winder** (left or right) to be used in conjunction with MSS Superior makes it possible to adapt the structure of the staircase to the room in which the use of straight stairs is not possible. Installation of the MSW winder with the MSS staircase increases its usable range up to the floor height of 3.57m. The MXH-S handrail can be additionally purchased and mounted on either side of the stairs.



Robust tenon connections of treads in stringers strengthened with screws supplied with the staircase.



MSS staircase with MSW-L left-handed winder treads



MSS staircase with MSW-R right-handed winder treads



ready to be painted



can be fitted with accessories



easy height adjustment



supplied with installation kit

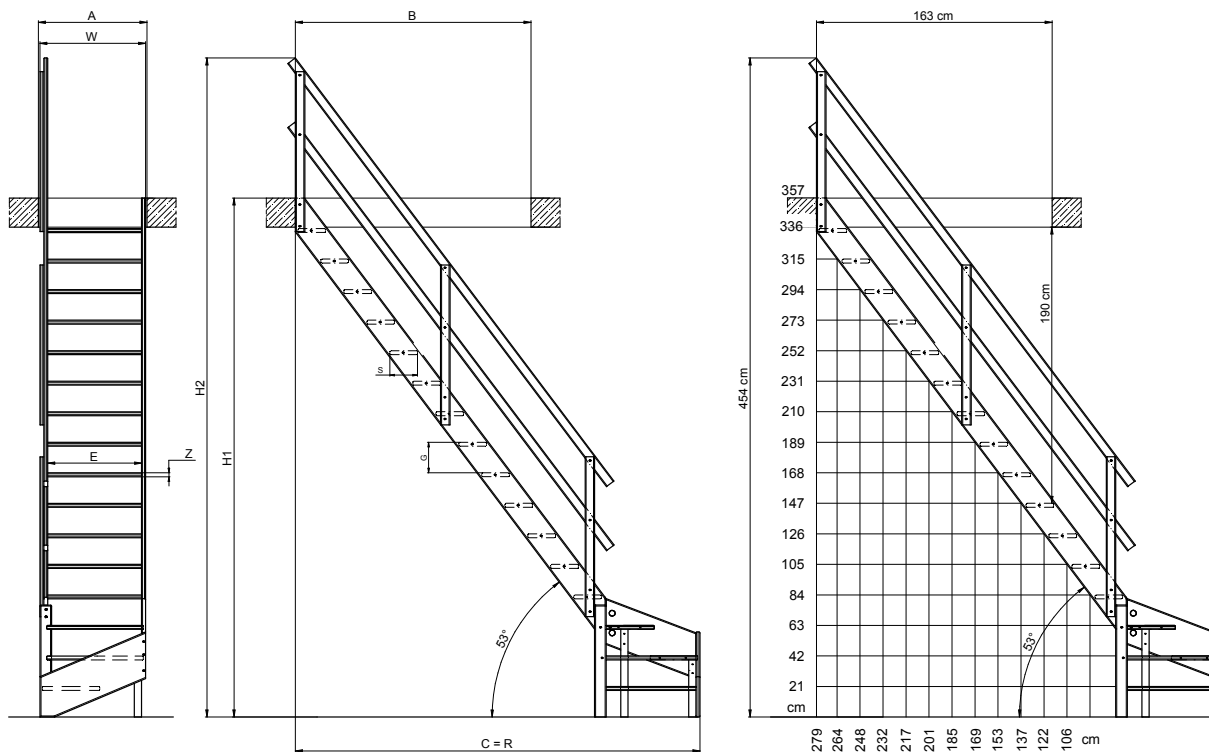
Technical specification:
permissible load 160 kg
ladder inclination 53°

DIY installation



3 years
WARRANTY

MSW WINDER DIAGRAM



MSW WINDER IN CONJUNCTION WITH MSS STAIRCASE DIMENSIONS

Size		70 cm
Max. floor height [cm]	H	357
Installed staircase height with handrail [cm]	H1	454
Min. ceiling opening dimensions [cm]	AxB	75x163
Distance occupied by staircase on the floor [cm]	C	279
Distance occupied by staircase on the floor with handrail [cm]	R	279
Staircase width [cm]	W	73
Number of treads [pcs]		16
Distance between treads [cm]	G	21
Tread thickness [cm]	Z	2.7
Tread width [cm]	E	65
Tread depth [cm]	S	19
Ladder inclination [°]		53

MSW WINDER

	MSW-L	MSW-R
Code	869745	869746

MSS+MSW-L STAIRCASE

	MSS	MSW-L
Code	869744	869745

MSS+MSW-R STAIRCASE

	MSS	MSW-R
Code	869744	869746

MXH-S HANDRAIL

	MXH-S
Code	869748

order processing time 10 working days

BALUSTRADE LXB-U

The loft balustrade is made of pine wood, protects the ceiling opening in the attic and makes it easier and safer to descend the ladder. The LXB-U is installed directly to the loft floor and is strengthened with flat-bars. The LXB-U balustrade is adopted to the biggest loft ladder size 86x140 cm, so it can be applied to all types of loft ladders without cutting of its horizontal bars.



LXB-U Balustrade	Available for loft ladders
	all FAKRO loft ladders
Standard dimensions [cm]	86 x 140
Non-standard dimensions [cm]	for loft ladder sizes smaller than 86x140 cm, the standard size balustrade is applied
Balustrade height [cm]	110

Code 80AZ04

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.



Installation brackets	Available for loft ladders							
	LWK Komfort	LWL	LTK Energy	LWT	LWF 45	LDK	LMS	LMK
Installation to the ceiling max. thickness [cm]	35		39		43		35	

Code 62085

order processing time 3 working days

ARCHITRAVE LININGS LXL

The architrave is designed to finish the installation of the loft ladder and to cover gaps in the ceiling which remain after the fitting process. The architrave elements are of solid pine wood (LXL-P) or PVC (LXL-PVC). This quick and simple fitting process ensures a fast, aesthetically pleasing finish of the installed Loft Ladder. In the case of PVC architrave, connection with the box does not require any nails. The LXL-PVC architrave is available in white*.

Architrave linings LXL-P/-W	Available for loft ladders							
	LWK Komfort	LWL	LTK Energy	LWT	LWF-45	LDK	LMS	LMK
Standard dimensions [cm]	70 x 140							
Non-standard dimensions [cm]	1. For ladders in sizes smaller than 70x140 the standard size of architrave slats has to be cut. 2. For ladders in sizes bigger than 70x140 the non-standard architrave slats have to be ordered with the detailed box dimensions provided.							
Slats thickness after installation on box [cm]	1							
Slats width [cm]	3.5							
Max. width of the gaps, the architrave slats cover after installation on the box [cm]	2.5							

	LXL-P	LXL-W
		70x140
Code	62087	62088

order processing time 3 working days



Architrave linings LXL-PVC	Available for loft ladders							
	LWK Komfort	LWL	LTK Energy	LWT	LWF-45	LDK	LMS	LMK
Standard dimensions [cm]	60/70 x 120 or 86 x 140							
Non-standard dimensions [cm]	For ladders in sizes smaller than 86x140cm, the standard size of the slats has to be cut							
Slats thickness after installation on box [cm]	1							
Slats width [cm]	3,3							
Max. width of the gaps, the architrave slats cover after installation on the box [cm]	2,4							

	LXL-PVC		
		60x120	70x120
Code	62082	62083	62084

order processing time 3 working days

* the architrave lining colour may slightly differ from the colour of lining in angles and hatch



BOX EXTENSION LXN

Made of pine, the box extension matches perfectly with the box of the installed ladder and enhances the look of the ceiling opening. In addition, in case of ceiling thickness exceeding 31 cm, for 4-segment and scissors LST and LSZ loft ladders, the box extension serves as an extension element of a box height allowing for installation of the LXW upper hatch.



Box extension LXN	Available for loft ladders												
	LWK Komfort	LWZ Plus	LWL	LTK Energy	LWT	LWF 45	LDK	LMS	LMK	LML	LMF	LST	LSZ
Height of the box extension frame [cm]	10												
Max. height of non-standard box extension [cm]	20						16		20				

LXN box extension commercial size [cm]	51x80	55x111	60x90	60x94	60x100	60x111	60x120	60x130	60x140	70x80	70x94	70x100	70x111	70x120	70x130	70x140	86x130
Code	862300	862321	862322	862307	862306	862304	862301	862302	862303	862332	862317	862316	862314	862311	862312	862313	862396

order processing time 15 working days

When ordering standard and non-standard box extensions, please specify the model and commercial size of loft ladders. The provided box extension size will be compatible with the loft ladder box.

ADDITIONAL TREAD LXT

An additional tread makes climbing the ladder easier and increases comfort and safety of access to the loft space. Made of wood and is installed between the last ladder's tread and the floor of the loft. It is recommended especially in situations where the upper hatch is installed on the loft ladder's box or ladders are installed in a thick ceiling.



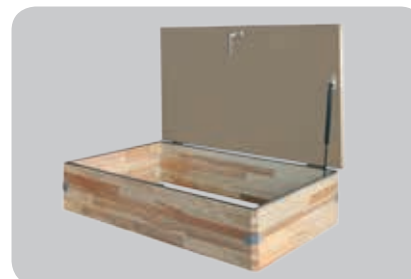
Additional tread LXT	Available for loft ladders		
	LWL	LMS	LMK
External width of the ladders section	LXT300		
	38		

Code	62059
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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 equipped with a peripheral gasket, 3.6cm thick hatch door, hardware, installation brackets, gas piston and rotational closing handle. In order to close the upper hatch from the loft side, it is possible to install additional handle LXZ.



Upper hatch LXW	Available for loft ladders																
	LWK Komfort	LWZ Plus	LWL	LTK Energy	LWT	LWF 45	LMS	LMK	LML	LMF	LST	LSZ					
Max. thickness of the ceiling where the upper hatch can be installed [cm]	31 or after standard upper hatch installation 41. For 4 section ladders the use of the upper hatch is a must.	31 or after standard upper hatch installation 41.		35 or after standard upper hatch installation 49.						48 or after standard upper hatch installation 58.	33 or after standard upper hatch installation 43.	41, the upper hatch installation is a must					
Upper hatch box height [cm]	20																
Commercial sizes of LXW [cm]	51x80	55x111	60x90	60x94	60x100	60x111	60x120	60x130	60x140	70x80	70x94	70x100	70x111	70x120	70x130	70x140	86x130
Code	862200	862221	862222	862207	862206	862204	862201	862202	862203	862232	862217	862216	862214	862211	862212	862213	862296

order processing time 15 working days

When ordering standard and non-standard upper hatches, please specify the model and commercial size of loft ladders. The provided upper hatch size will be compatible with the loft ladder box.

HANDLE LXZ

The LXZ handle enables the closing of the LXW upper hatch from the loft side e.g during maintenance works in the loft or roof.



Code	80AZ01
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order processing time 3 working days

STILE ENDS LX5

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 available for all segment loft ladders with wooden ladder sections (besides 4-section and LDK loft ladder).



Code	62027
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order processing time 3 working days

HANDRAIL LXH

The metal handrail makes climbing the ladder easier, hence increasing user comfort and safety. The LXH handrail is mounted onto the upper ladder sections.



Handrail LXH	Available for loft ladders		
	LWK Komfort, LWZ Plus, LTK Energy, LWT, LWF45, LMS, LMK		LDK
Handrail is installed to the upper ladder section	LXH *50/13	LXH *75/13	LXH75/16
Code	80AZ24	80AZ18	62065

* Handrails LXH 50/13 are installed to ladder with boxes up to 100cm in length; handrails LXH 75/13 to ladders with boxes over 100cm in length

order processing time 10 working days

INSULATION KIT LXD

The insulation kit provides tight insulation between the box of the mounted ladder and the opening in the ceiling, thereby allowing a "warm assembly" essential in energy-efficient and passive construction. The kit includes: air tight collar, insulation material (sheep wool blocks) and the air-permeable collar.



Insulation kit LXD	Available for loft ladders						
	LWK Komfort	LWL	LTK Energy	LWT	LDK	LMS	LMK
Standard dimensions [cm]	60/70x120 oraz 86 x 140						
Non-standard dimensions [cm]	For ladders smaller than 86x140cm, the standard size of the kit has to be adapted						
Commercial sizes LXD [cm]	60x120	70x120	86x140				
Code	80AZ13	80AZ14	80AZ15				

order processing time 3 working days

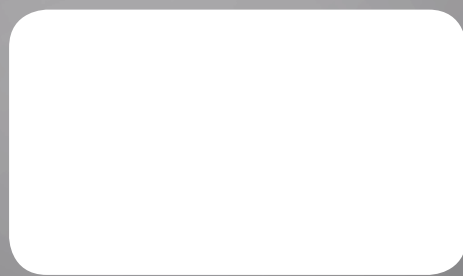
AVAILABLE ADDITIONAL ACCESSORIES

	LWK Komfort	LWZ Plus	LWL	LTK Energy	LWT	LWF 45	LDK	LMS	LMK	LML	LMF	LST	LSZ	LSF
LXB-U balustrade	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
LXH handrail	✓	✓	—	✓	✓	✓	✓	✓	✓	—	—	—	—	—
LXX installation brackets	✓	—	✓	✓	✓	✓	✓	✓	✓	—	—	—	—	—
LXL architrave lining	✓	—	✓	✓	✓	✓	✓	✓	✓	—	—	—	—	—
LXL-PVC architrave lining (plastic)	✓	—	✓	✓	✓	✓	✓	✓	✓	—	—	—	—	—
LXS stile ends (only for 3 sections ladders)	✓	✓	✓	✓	✓	✓	—	—	—	—	—	—	—	—
LXN box extension	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	—
LXW upper hatch	✓*	✓	✓	✓	✓	✓	—	✓	✓	✓	✓	✓*	✓*	—
LXT additional tread	—	—	✓	—	—	—	—	✓	✓	—	—	—	—	—
LXD insulation kit	✓	—	✓	✓	✓	—	✓	✓	✓	—	—	—	—	—

* for 4 section loft ladders and scissors the LXN upper hatch is mounted prior to the upper hatch LXW installation







FAKRO®

Fakro GB Ltd
Fakro House
Astron Business Park
Hearthcote Road
Swadlincote DE11 9DW
telephone : 01283 554755 fax : 01283 224545
www.fakro.co.uk e-mail: sales@fakrogb.com

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