

COMPLETE GUIDE TO LOFT LADDERS



Wide range
of safe and comfortable
loft ladders

FOLDING LOFT LADDERS

enable safe and easy access to loft spaces without the need for costly and space-consuming staircases. FAKRO ladders satisfy all technical and safety requirements whilst maximising ease of use and comfort.



SPACE SAVINGS

FAKRO loft ladders require little 'swing space'. The ladder is mounted on the hatch so that, when folded, its sections are neatly concealed inside the loft space.

EASE OF INSTALLATION

To make installation easier, 'click' fixings enable some FAKRO loft ladders to be fitted by a single person. All can be installed with ease, however and can be adjusted to suit ceiling height.

Ladders come fully assembled and do not require any additional pre-installation work.

EASE OF OPERATION

The innovative spring-assisted opening mechanism (on some models ladder sections are also sprung) greatly eases ladder use. An opening rod is also supplied with every ladder.

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.**

ELECTRIC

METAL

MAXIMUM
LOAD
200 kg

U=0.51
W/m²K

SCISSORS

**LET
ELECTRIC**

AUTOMATIC
CONTROL



Page 42

WOODEN

MAXIMUM
LOAD
160 kg

U=1.1
HATCH
W/m²K

**LWK
KOMFORT**

COMFORT AND
FUNCTIONALITY



Page 8

**LWZ
PLUS**

COMFORT,
FUNCTIONALITY AND
QUICK INSTALLATION



Page 10

INSULATED



ENERGY-EFFICIENT

ENERGY-EFFICIENT

METAL

MAXIMUM LOAD
200 kg

U=1.1
HATCH
W/m²K

U=1.1
HATCH
W/m²K

WOODEN

MAXIMUM LOAD
160 kg

U=0.74
LOFT LADDER
W/m²K

U=0.68
LOFT LADDER
W/m²K

U=0.51
LOFT LADDER
W/m²K

SECTION

LML
LUX

LMP

ENHANCED
COMFORT OF USE

FOR HIGH ROOMS



Page 32

Page 34

SCISSORS

LST

FUNCTIONALITY
AND SMALL BOX
DIMENSIONS



Page 44

SECTION

LWL
EXTRA

LTK
ENERGY

LWT

ENHANCED
COMFORT
OF USE

HIGHLY ENERGY
EFFICIENT

BEST
INSULATION

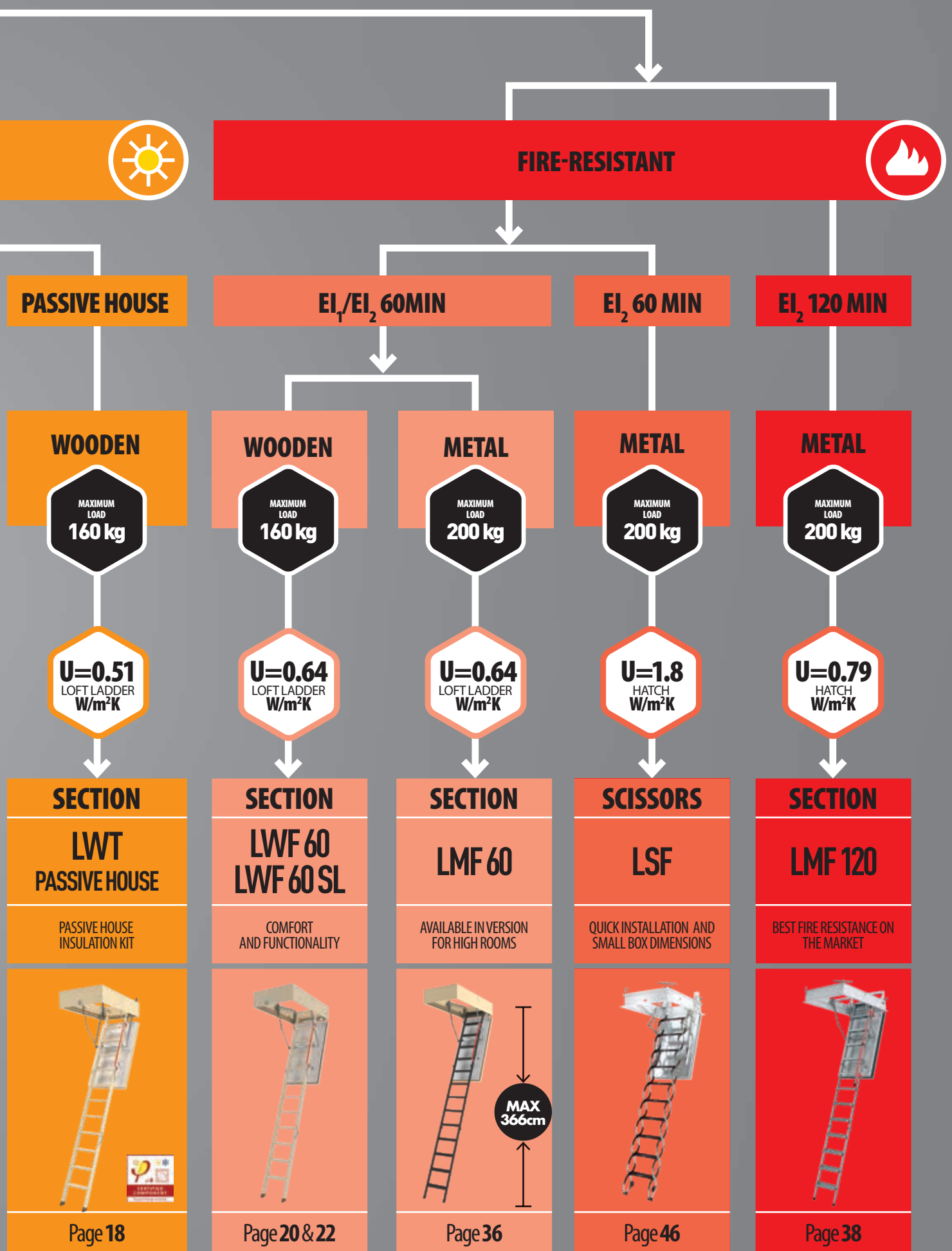


Page 12

Page 14

Page 16

TYPES AND CHOICE OF LOFT LADDER





L-SHAPED COMBINATION DOORS

DWK



DWK L-Shaped combination doors are intended to be built into walls to provide access to the unused space behind. They offer excellent thermal insulation parameters ($U=1.1 \text{ W/m}^2 \text{ K}$) and airtightness to minimise heat loss. Left or right-hand opening versions are available, standard doors being equipped with 3.5cm wide natural timber-coloured slats. The 3.6cm insulated sash is of HDF and has a white veneer on both sides and pine frame.

* - manufacturer's own internal tests for the middle part of the sash

DWT



The **DWT** highly energy efficient L-shaped doors are designed primarily for installation in L-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 air tightness. The door can be installed in the right or left side. They are as standard equipped with wooden architrave lining in natural colour.






** - manufacturer's own internal tests for the sash






DWF







DWF 60 L-Shaped combination fire-resistant doors have a 60-minute fire rating – (EN 13501-2) to protect against the spread of flame while providing access to unused space behind a wall. The white 6,6 cm thick sash has thermo insulation to provide an excellent barrier against heat loss ($U = 0.64 \text{ W/m}^2 \text{ K}$). The door can be installed in the right or left side. They are as standard equipped with wooden architrave lining in natural colour.

*** - manufacturer's own internal tests

-  white door sash
-  finishing lining
-  rubber seal
-  handle
-  opening to the right or left side

-  white door sash
-  finishing lining
-  rubber seal
-  handle
-  opening to the right or left side

-  fire resistant white door sash
-  finishing lining
-  rubber seal
-  handle
-  opening to the right or left side

 3 years warranty fully assembled, and ready for quick installation in the ceiling



WOODEN SECTION LOFT LADDERS

▶ BOX

The loft ladder has a pine or metal frame integrated within its box. It comes complete with linings which, in combination with a quick installation system gets the job done fast! The peripheral seal is used to ensure the ladder aperture remains airtight.

▶ HATCH 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 and spring mechanism provides added rigidity to the box and prevents distortion.

▶ HATCH

The sandwich type hatch can be insulated or fire-resistant.

▶ TREAD

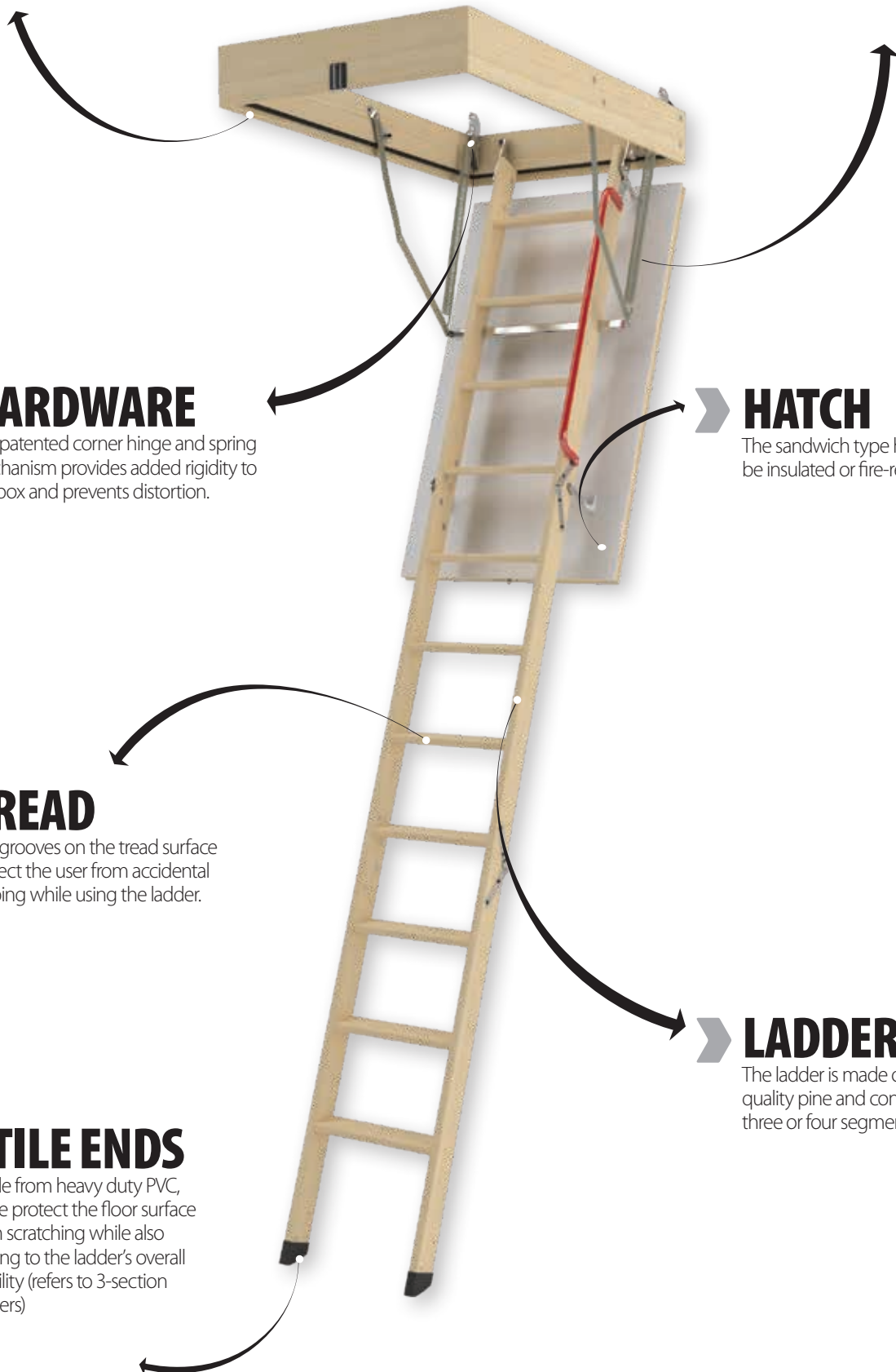
The grooves on the tread surface protect the user from accidental slipping while using the ladder.

▶ LADDER

The ladder is made of high quality pine and consists of three or four segments.

▶ STILE ENDS

made from heavy duty PVC, these protect the floor surface from scratching while also adding to the ladder's overall stability (refers to 3-section ladders)

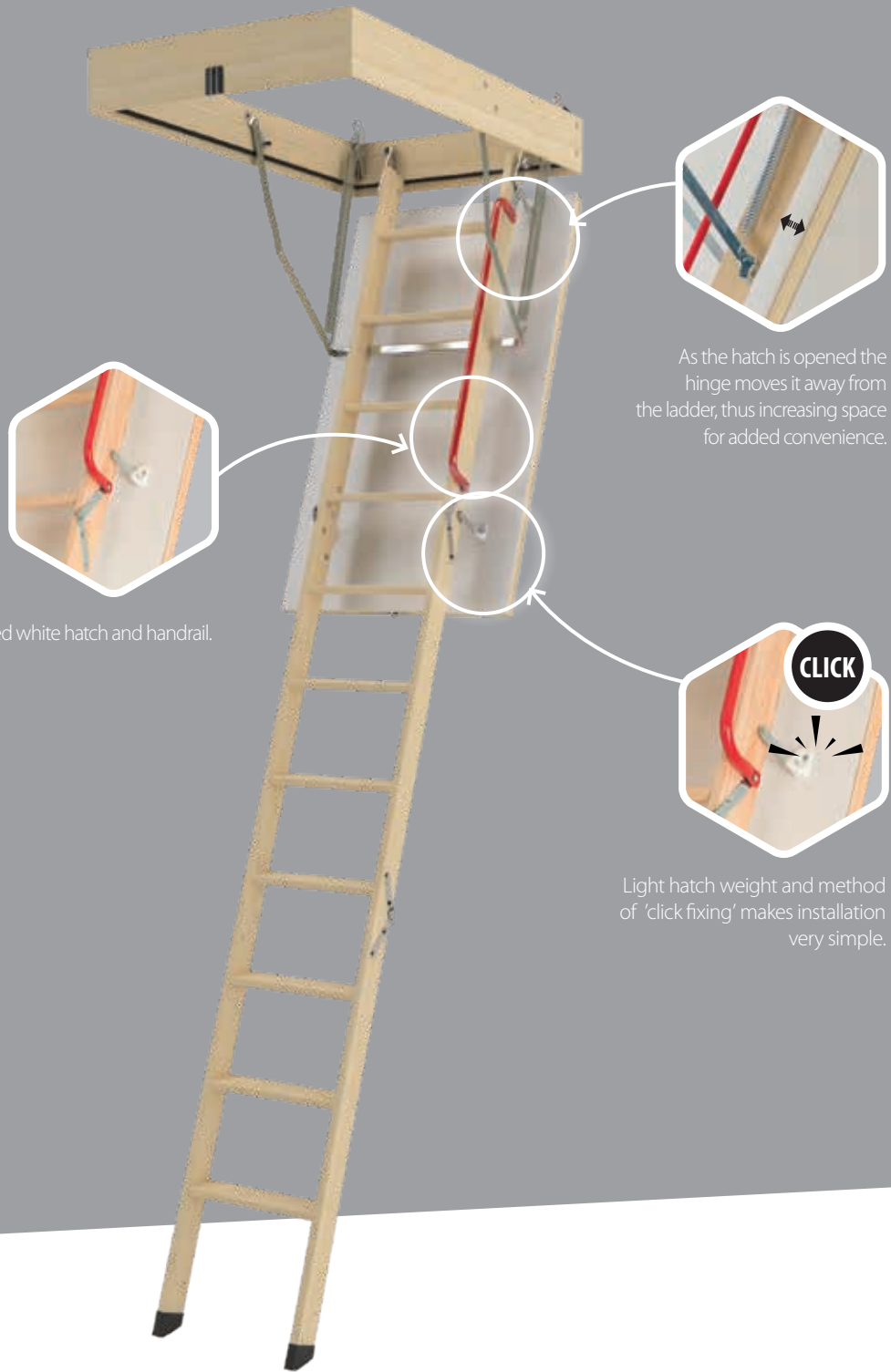


WOODEN
LOFT LADDERS



WOODEN FOLDING SECTION LOFT LADDERS

LWK
KOMFORT



As the hatch is opened the hinge moves it away from the ladder, thus increasing space for added convenience.

Insulated white hatch and handrail.

Light hatch weight and method of 'click fixing' makes installation very simple.

The **LWK Komfort** ladder's innovative design ensures ease of use, a high insulation value and quick installation. It is equipped with an aesthetically pleasing, smooth white finish to the hatch, and a handrail as standard.



stile ends (only in 3-section version)



white hatch



peripheral seal



handrail



non-slip treads set flush with ladder strings



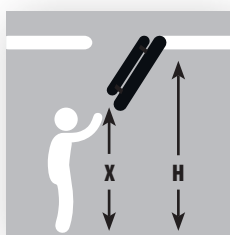
possibility of installing additional accessories, pages 54-59

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

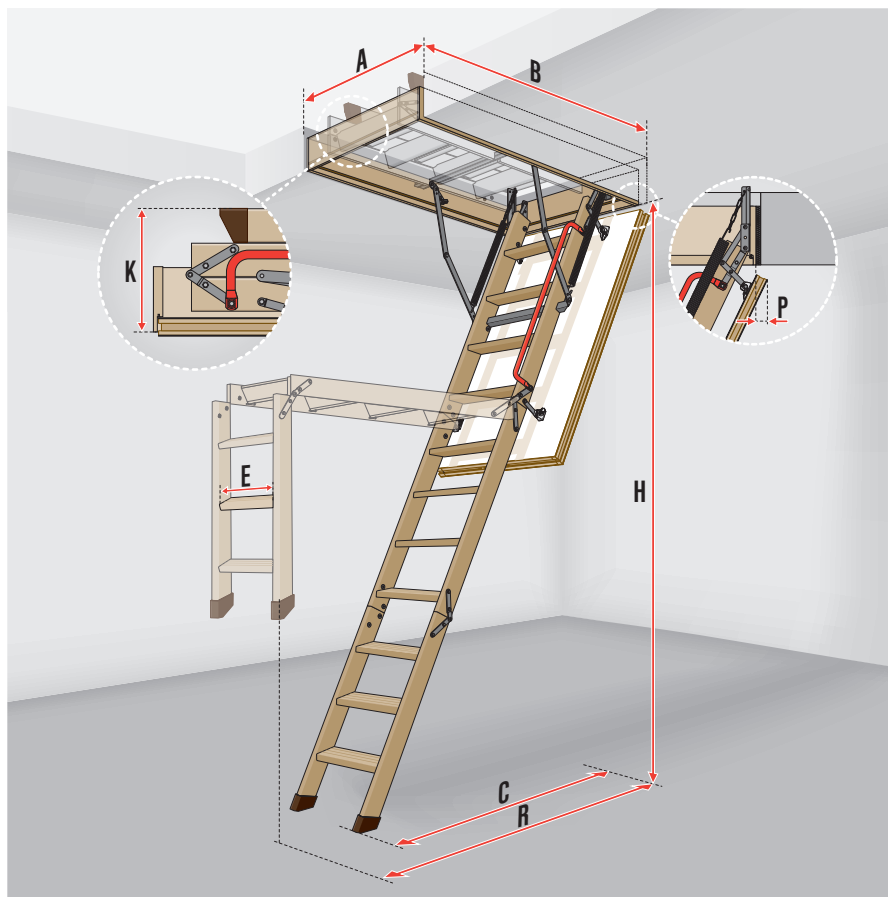
fully assembled,
and ready for quick
installation in the ceiling



LWK KOMFORT LADDER DIAGRAM



i 3-segment ladder can be equipped with the LXM ladder unloading mechanism (page 58), so that the ladder can be fully operated with a rod



LWK KOMFORT LOFT LADDER DIMENSIONS

Ceiling opening dimensions [cm]	AxB	55x111	60x94	60x100	60x111	60x120	60x130	70x94	70x100	70x111	70x120	70x130	70x140	80x120	60x130	60x140	70x130	70x140
Maximum room height [cm]	H	280																305
Minimum room height [cm]*	H _{min.}	232	250		232			250				232						246
Height to be reached to operate the ladder [cm]	X	215 i	240		215 i			240				215 i						225 i
Box external dimensions [cm]		53x109.4	58x92.4	58x98.4	58x109.4	58x118.4	58x128.4	68x92.4	68x98.4	68x109.4	68x118.4	68x128.4	68x138.4	78x118.4	58x128.4	58x138.4	68x128.4	68x138.4
Internal box dimensions [cm]		49x105	54x88	54x94	54x105	54x114	54x124	64x88	64x94	64x105	64x114	64x124	64x134	74x114	54x124	54x134	64x124	64x134
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					

* for rooms lower than the maximum standard height H please adjust the length of the ladder according to the assembly instructions

LOFT LADDER DIMENSIONS

Commercial sizes [cm]		55x111	60x94	60x100	60x111	60x120	60x130	70x94	70x100	70x111	70x120	70x130	70x140	80x120	60x130	60x140	70x130	70x140
Room height [cm]	H	280																305

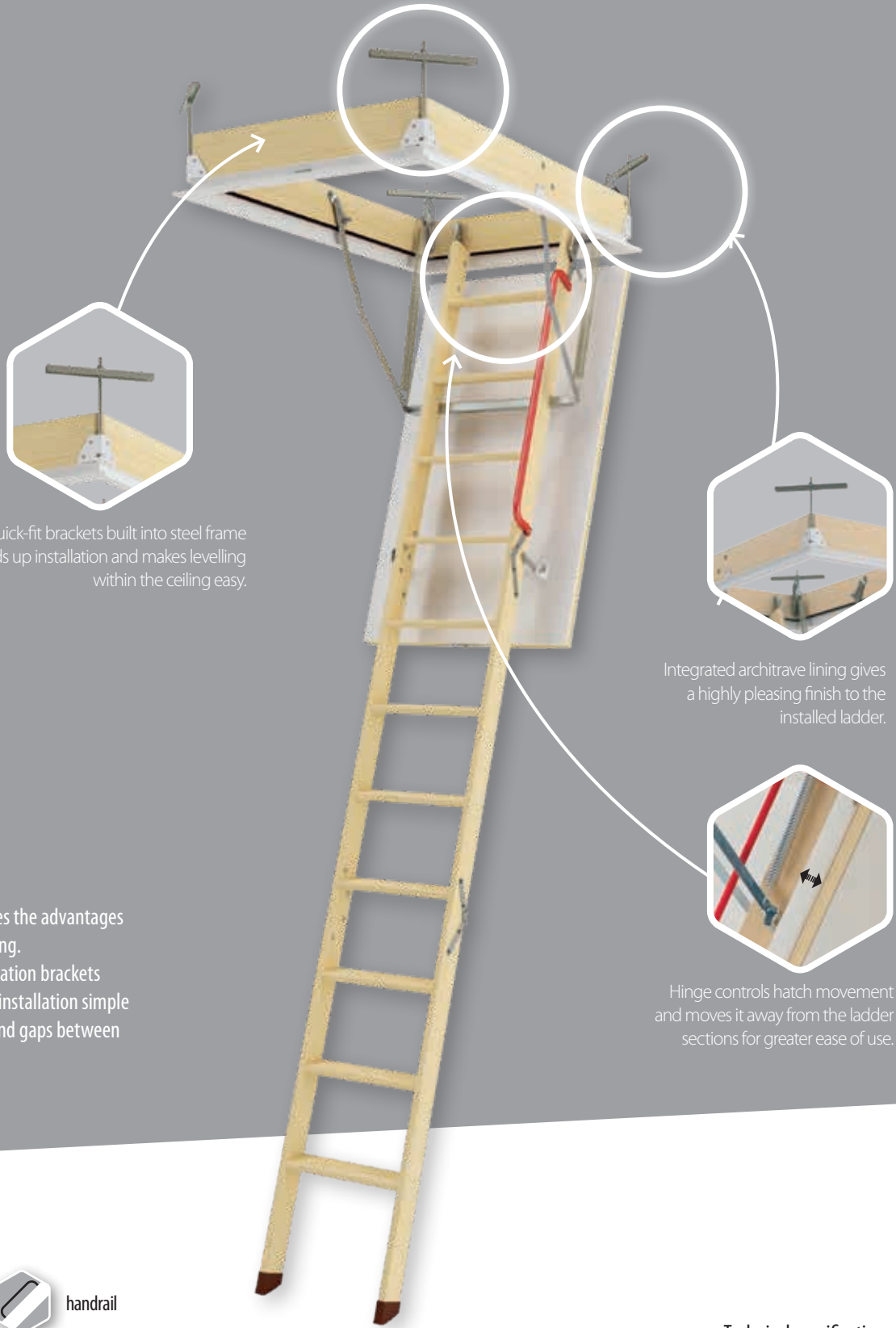
For LWK Komfort non-standard sizes see page 26-27

WOODEN
LOFT LADDERS



WOODEN SECTION LOFT LADDERS

LWZ
PLUS



Quick-fit brackets built into steel frame speeds up installation and makes levelling within the ceiling easy.

Integrated architrave lining gives a highly pleasing finish to the installed ladder.

Hinge controls hatch movement and moves it away from the ladder sections for greater ease of use.

The **LWZ Plus** loft ladder combines the advantages of the latest design and quick fitting.

The integrated steel frame, installation brackets and metal architrave lining make installation simple and finish off any imperfections and gaps between frame and ceiling.



stile ends



white hatch



architrave



peripheral seal



handrail



non-slip treads



system of quick installation in the ceiling



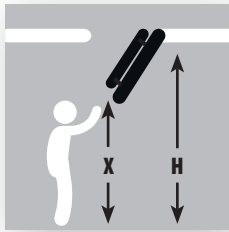
possibility of installing additional accessories pages 54-59

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

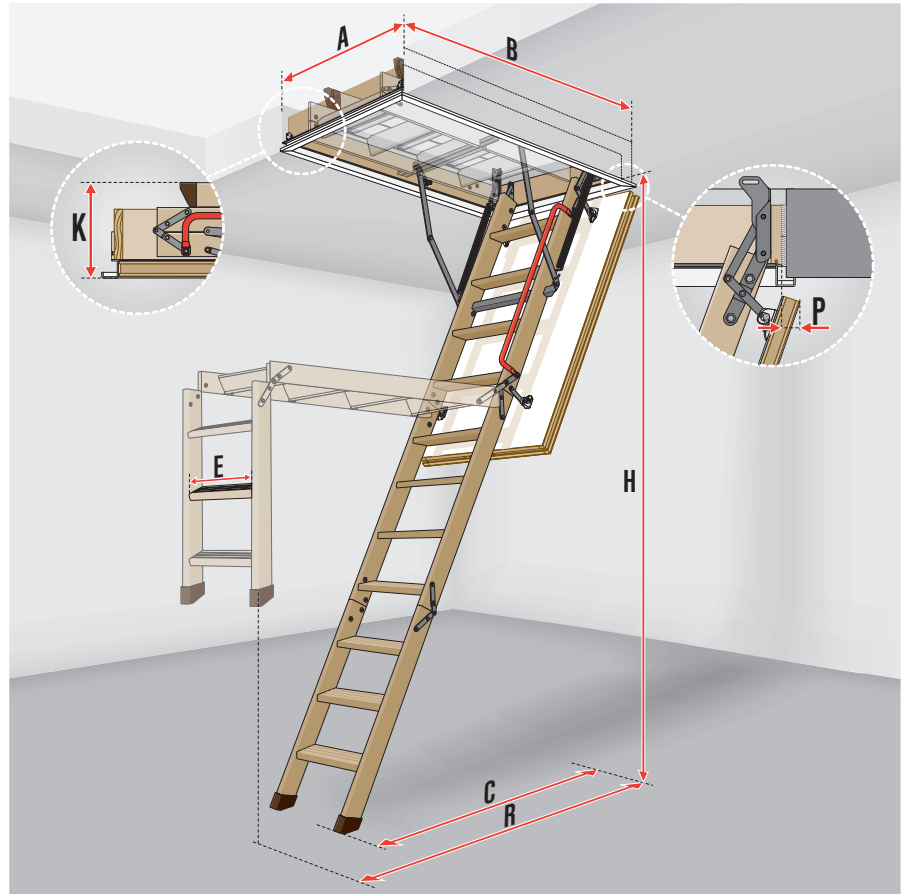
fully assembled,
and ready for quick
installation in the ceiling



LWZ PLUS LADDER DIAGRAM



3-segment ladder can be equipped with the LXM ladder unloading mechanism (page 58), so that the ladder can be fully operated with a rod



LWZ PLUS LOFT LADDER DIMENSIONS

Ceiling opening dimensions [cm]	AxB	60x120	70x120	70x140
Maximum room height [cm]	H		280	
Minimum room height [cm]*	H _{min.}		232	
Height to be reached to operate the ladder [cm]	X		215	
Box external dimensions [cm]		58.8x118.8	68.8x118.8	68.8x138.8
Box external dimensions with architrave linings		62.9x122.9	72.9x122.9	72.9x142.9
Internal box dimensions [cm]		54x114	64x114	64x134
Folded ladder height [cm]	K		27	
Swing space [cm]	R		156	
Distance after ladder unfolding [cm]	C		120	
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

* for rooms lower than the maximum standard height H please adjust the length of the ladder according to the assembly instructions

LOFT LADDER DIMENSIONS

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

Ladders are available only in sizes shown above.

WOODEN SECTION LOFT LADDERS



LWL
EXTRA

U=0,74*
LOFT LADDER
W/m²K

4
class
EN12207

MAX
160
kg

NEW

standard
EN
14775

LWL Extra wooden loft ladders in new design with increased insulation parameters. LWL Extra for increased security and comfort of use has been equipped with an additional handrail mounted on the middle folding section and unloading mechanism that supports folding and unfolding the ladder.



double system of seals guarantees perfect tightness



Unloading mechanism facilitates folding and unfolding the ladder.



Additional handrail ensures safety and comfort of use.



The hinge controls hatch movement and whilst opening, automatically moves away from the ladder providing added stability and ease of use.



Light hatch weight and method of 'click fixing' makes installation very simple.



Energy-efficient, 5.6cm thick hatch equipped with lock perfectly prevents heat loss.

* manufacturer's internal research



stile ends



white hatch



two seals



two handrails



non-slip treads set flush with ladder strings



ladder unloading mechanism



possibility of installing additional accessories pages 54-59



varnished ladder

Technical specification:

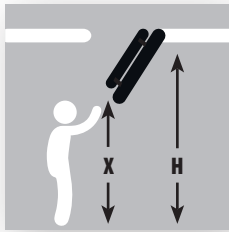
permissible load 160 kg
loft ladder heat transmission coefficient U=0.74 W/m²K
insulation thickness 5cm
hatch thickness 5.6

fully assembled, and ready for quick installation in the ceiling

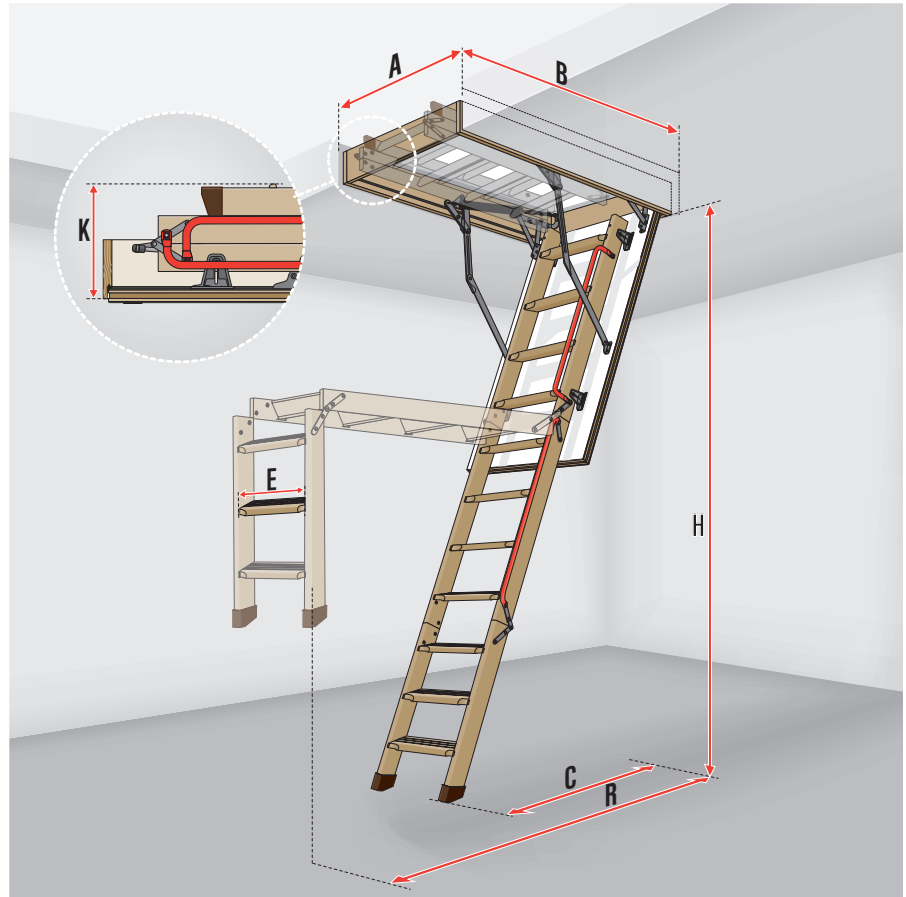
3
years
warranty



LWL EXTRA LADDER DIAGRAM



i The LWL Extra ladders are as standard equipped with ladder unloading mechanism, so they can be fully operated with the opening rod.



LWL EXTRA LOFT LADDER DIMENSIONS

Ceiling opening dimensions [cm]	AxB	60x120	70x120	70x130	70x140	60x130	70x130	70x140
Maximum room height [cm]	H	280				305		
Minimum room height [cm]*	H _{min.}	260				280		
Height to be reached to operate the ladder [cm]	X	215 i				225 i		
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	30						
Hatch retraction after opening [cm]	R	156				175		
Distance after ladder unfolding [cm]	C	120				135		
Box height [cm]		14						
Hatch retraction after opening [cm]		6						

LADDER PARAMETERS

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

* for rooms lower than the maximum standard height H please adjust the length of the ladder according to the assembly instructions

Commercial sizes [cm]		60x120	70x120	70x130	70x140	60x130	70x130	70x140
Room height [cm]	H	280				305		
Code		867901	867911	867912	867913	867951	867953	867954

Ladders are available only in sizes shown above.

WOODEN
LOFT LADDERS



WOODEN SECTION LOFT LADDERS

LTK
ENERGY

U=0,68
LOFT LADDER
W/m²K

4
CLASS
EN12207

MAX
160
kg



NEW

standard
EN
14975

The **LTK Energy** 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.



Double system of seals guarantees perfect tightness.

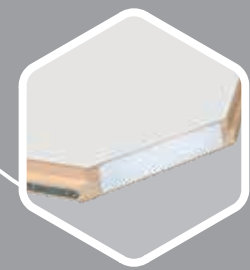


Short distance between the top tread and attic floor.



CLICK

Light hatch weight and method of 'click fixing' makes installation very simple.



Highly energy-efficient, 6.6cm thick hatch prevents heat loss, making significant saving on energy bills.

H stile ends (only in 3-section version)

white hatch

two seals

handrail

non-slip treads set flush with ladder strings

easy installation

a possibility of installing additional accessories pages 54-59

varnished ladder

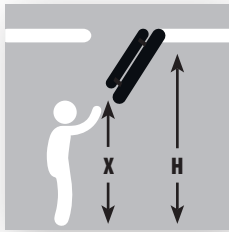
Technical specification:
maximum load of 160 kg
loft ladder heat transmission coefficient U = 0.68 W / m²K
insulation thickness 6 cm
hatch thickness 6.6 cm

fully assembled,
and ready for quick
installation in the ceiling

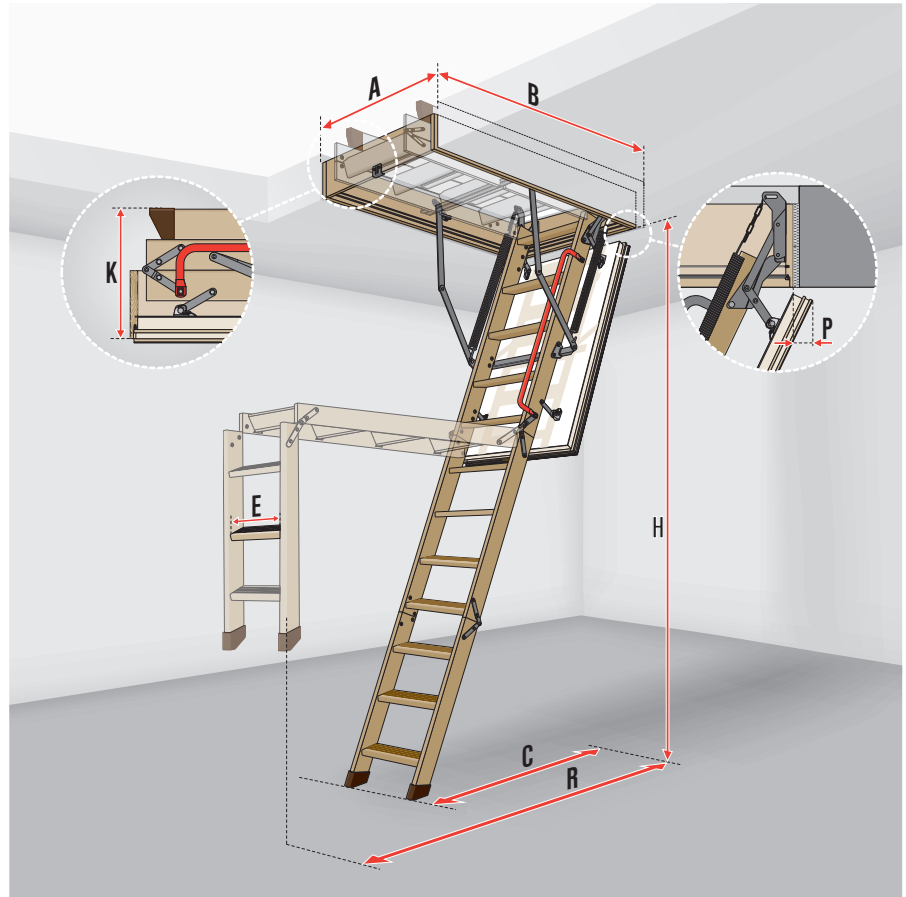
3
years
warranty



LTK ENERGY LADDER DIAGRAM



i 3-segment ladder can be equipped with the LXM ladder unloading mechanism (page 58), so that the ladder can be fully operated with a rod



LTK ENERGY LOFT LADDER DIMENSIONS

Ceiling opening dimensions [cm]	A x B	55x100	60x100	70x100	60x120	70x120	70x130	70x140	60x130	70x130	70x140	
Maximum room height [cm]	H	280						305				
Minimum room height [cm]*	H _{min.}	253			235			243				
Height to be reached to operate the ladder [cm]	X	230			210 i			230 i				
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				

* for rooms lower than the maximum standard height H please adjust the length of the ladder according to the assembly instructions

LOFT LADDER

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

Ladders are available only in sizes shown above.



WOODEN SECTION LOFT LADDERS

LWT



NEW



The highly efficient **LWT** loft ladder is recommended for use in energy-efficient buildings. Its excellent level of insulation significantly reduces heat loss and energy bills.



Triple system of seals guarantees perfect tightness.

CLICK

Light hatch weight and method of 'click fixing' makes installation very simple.

Short distance between the top tread and attic floor.

Its special 8cm thick hatch is filled with polystyrene insulation to provide an excellent barrier and reduce heat loss.

stile ends (only in 3-section version)

white hatch

three seals

handrail

non-slip treads set flush with ladder strings

easy installation

possibility of installing additional accessories pages 54-59

varnished ladder

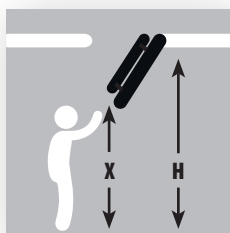
Technical specification:
permissible load of 160 kg
loft ladder heat transmission coefficient $U = 0.51 \text{ W/m}^2\text{K}$
insulation thickness 7.4 cm
hatch thickness 8 cm

fully assembled,
and ready for quick
installation in the ceiling

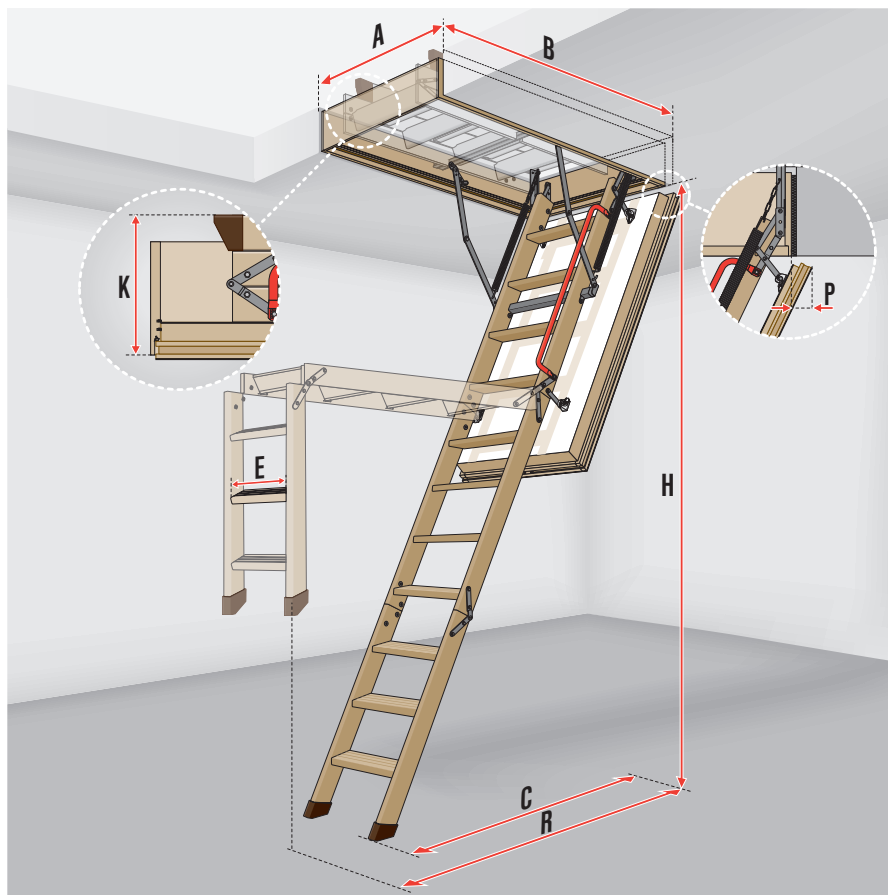
3 years warranty



LWT LOFT LADDER DIAGRAM



i 3-segment ladder can be equipped with the LXM ladder unloading mechanism (page 58), so that the ladder can be fully operated with a rod



LWT LOFT LADDER DIMENSIONS

Ceiling opening dimensions [cm]	AxB	55x100	60x100	70x100	60x120	70x120	70x130	70x140	60x130	70x130	70x140
Maximum room height [cm]	H	280								305	
Minimum room height [cm]*	H _{min.}	253			234			242			
Height to be reached to operate the ladder [cm]	X	230			210 i			230 i			
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	43.5			36			36			
Swing space [cm]	R	136			164			178			
Distance after ladder unfolding [cm]	C	123			130			137			
Hatch retraction after opening [cm]	P				4.5						
Box height [cm]					22						
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						

* for rooms lower than the maximum standard height H please adjust the length of the ladder according to the assembly instructions

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

Ladders are available only in sizes shown above.

WOODEN
LOFT LADDERS



LOFT LADDERS WITH WOODEN FOLDING SECTION

LWT
PASSIVE HOUSE



Kit allows for proper loft ladder insulation in the ceiling.

Short distance between the top tread and attic floor.

Triple system of seals guarantees perfect tightness.

Its special 8cm thick hatch is filled with polystyrene insulation to provide an excellent barrier and reduce heat loss.

The **LWT Passive House** loft ladder is a technically complex design specifically developed for the demands of such energy-efficient construction standards. It is installed with a kit which connects the ladder to the ceiling to guarantee a perfect seal and insulation without thermal bridges. It comes with Passive House certification.

stile ends (only in 3-section version)

white hatch

three seals

handrail

non-slip treads set flush with ladder strings

PASSIVE HOUSE Insulation kit

easy installation

possibility of installing additional accessories pages 54-59

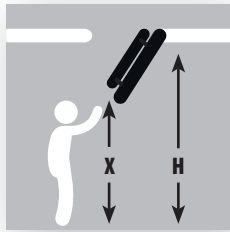
varnished ladder

Technical specification:
permissible load of 160 kg
loft ladder heat transmission coefficient $U = 0.51 \text{ W/m}^2\text{K}$
insulation thickness 7.4 cm
hatch thickness 8 cm

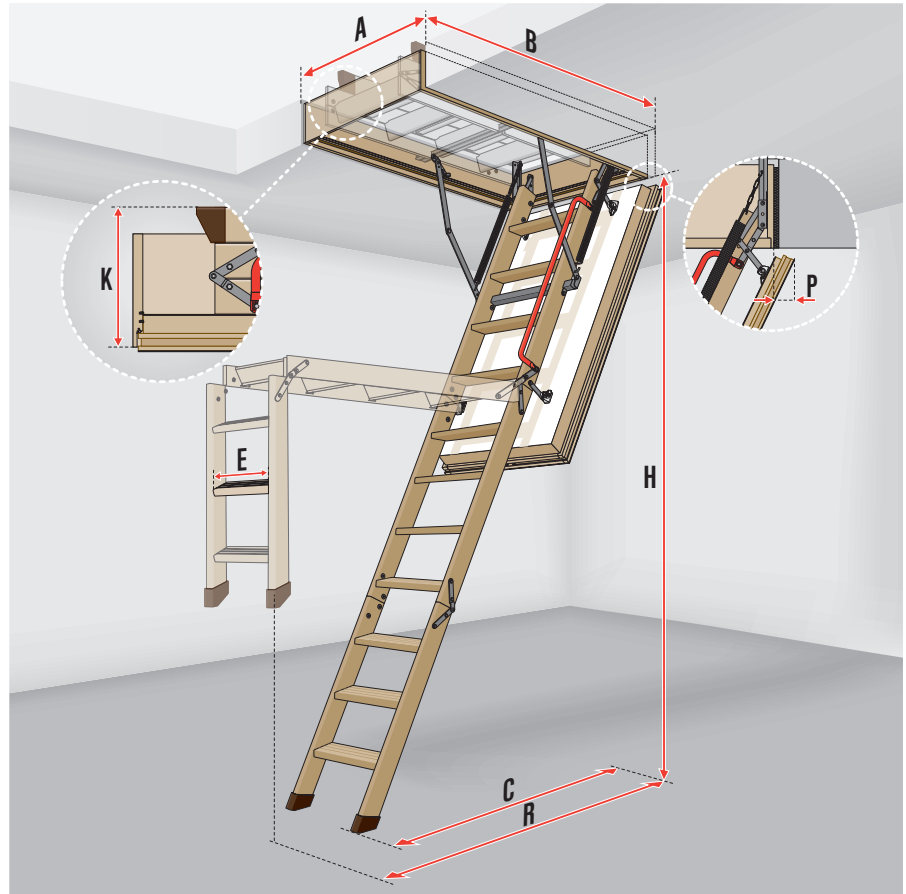
fully assembled,
and ready for quick
installation in the ceiling



LWT PASSIVE HOUSE LOFT LADDER DIAGRAM



i 3-segment ladder can be equipped with the LXM ladder unloading mechanism (page 58), so that the ladder can be fully operated with a rod



LWT PASSIVE HOUSE LOFT LADDER DIMENSIONS

Ceiling opening dimensions [cm]	AxB	62x122	72x122	72x142
Maximum room height [cm]	H		280	
Minimum room height [cm]*	H _{min}		234	
Height to be reached to operate the ladder [cm]	X		210	i
Box external dimensions [cm]		58x118.4	68x118.4	68x138.4
Internal box dimensions [cm]		54x114	64x114	64x134
Folded ladder height [cm]	K		36	
Swing space [cm]	R		164	
Distance after ladder unfolding [cm]	C		127	
Hatch retraction after opening [cm]	P		4.5	
Box height [cm]			22	

LADDER PARAMETERS

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

* for rooms lower than the maximum standard height H please adjust the length of the ladder according to the assembly instructions

LOFT LADDER

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

Ladders are available only in sizes shown above.

WOODEN
LOFT LADDERS

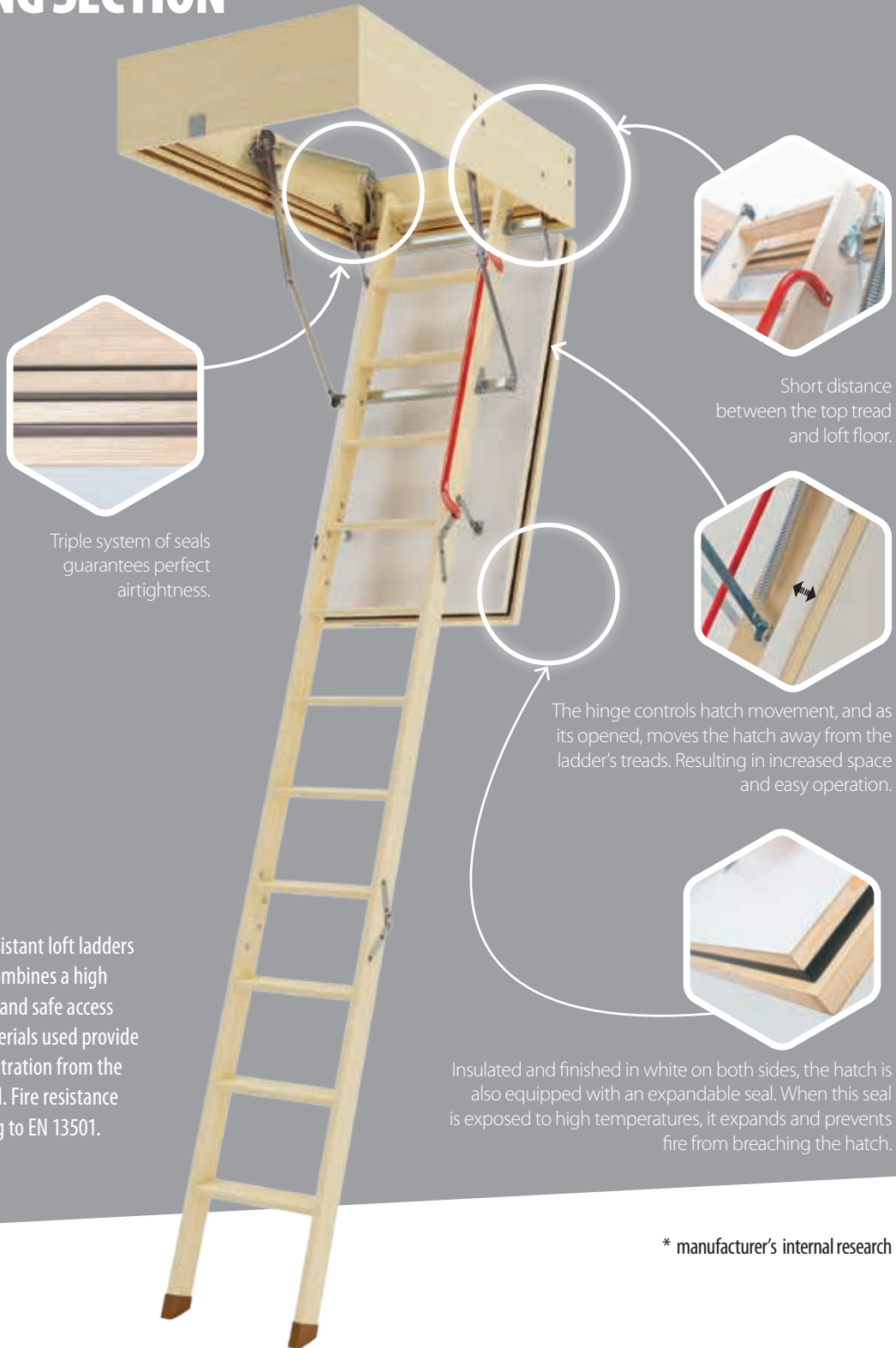


LOFT LADDERS WITH WOODEN FOLDING SECTION

LWF 60



The **LWF 60**, a new generation of fire resistant loft ladders with a wooden ladder which perfectly combines a high level of fire protection with comfortable and safe access to the loft. Special hatch design and materials used provide a 60-minute protection against fire penetration from the space where the loft ladder was installed. Fire resistance class EI₁ 60/EI₂ 60, classification according to EN 13501.



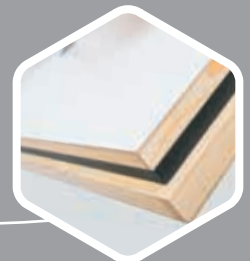
Triple system of seals guarantees perfect airtightness.



Short distance between the top tread and loft floor.



The hinge controls hatch movement, and as its opened, moves the hatch away from the ladder's treads. Resulting in increased space and easy operation.



Insulated and finished in white on both sides, the hatch is also equipped with an expandable seal. When this seal is exposed to high temperatures, it expands and prevents fire from breaching the hatch.

* manufacturer's internal research



stile ends (only in 3-section version)



fire resistant hatch on one side



three seals



handrail



non-slip treads set flush with ladder strings



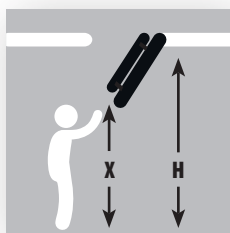
possibility of installing additional accessories pages 54-59

Technical specification:
maximum load of 160 kg
loft ladder heat transmission coefficient $U = 0.64 \text{ W/m}^2\text{K}$
Fire resistance class EI₁/EI₂ = 60 minutes
insulation thickness 7.9 cm
hatch thickness 8.5 cm

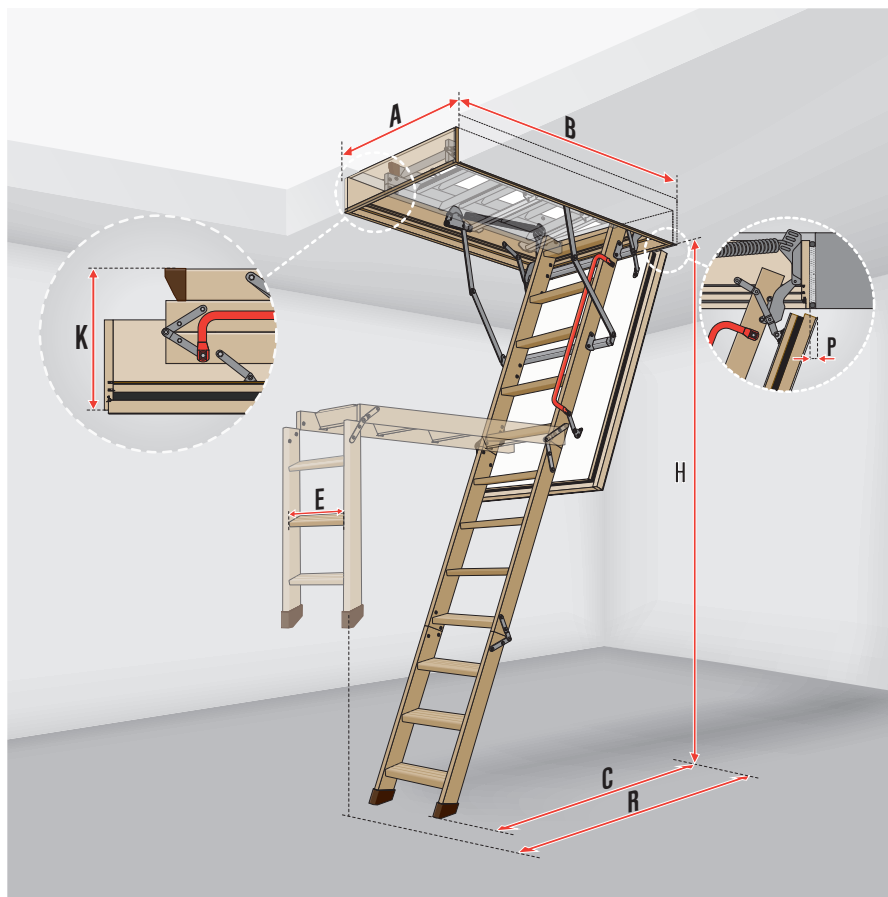
fully assembled,
and ready for quick
installation in the ceiling



LWF 60 LOFT LADDER DIAGRAM



i 3-segment ladder can be equipped with the LXM ladder unloading mechanism (page 58), so that the ladder can be fully operated with a rod



LWF 60 LOFT LADDER DIMENSIONS

Ceiling opening dimensions [cm]	AxB	55x100	55x120	60x100	70x100	60x120	70x120	70x130	70x140	86x130	55x130	70x130	70x140	86x130	
Maximum room height [cm]	H						280					305			
Minimum room height [cm]*	H _{min.}	253					234					242			
Height to be reached to operate the ladder [cm]	X	235					210					230			
Box external dimensions [cm]		53x98	53x118	58x98	68x98	58x118	68x118	68x128	68x138	84x128	53x128	68x128	68x138	84x128	
Internal box dimensions [cm]		49x94	49x114	54x94	64x94	54x114	64x114	64x124	64x134	80x124	49x124	64x124	64x134	80x124	
Folded ladder height [cm]	K	46										38			
Swing space [cm]	R	138										178			
Distance after ladder unfolding [cm]	C	126										139			
Hatch retraction after opening [cm]	P											5			
Box height [cm]												22.5			
Number of segments		4										3			

LADDER PARAMETERS

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

* for rooms lower than the maximum standard height H please adjust the length of the ladder according to the assembly instructions

Commercial sizes [cm]		55x100	55x120	60x100	70x100	60x120	70x120	70x130	70x140	86x130	55x130	70x130	70x140	86x130	
Room height [cm]	H						280					305			

Ladders are available only in sizes shown above.

WOODEN
LOFT LADDERS



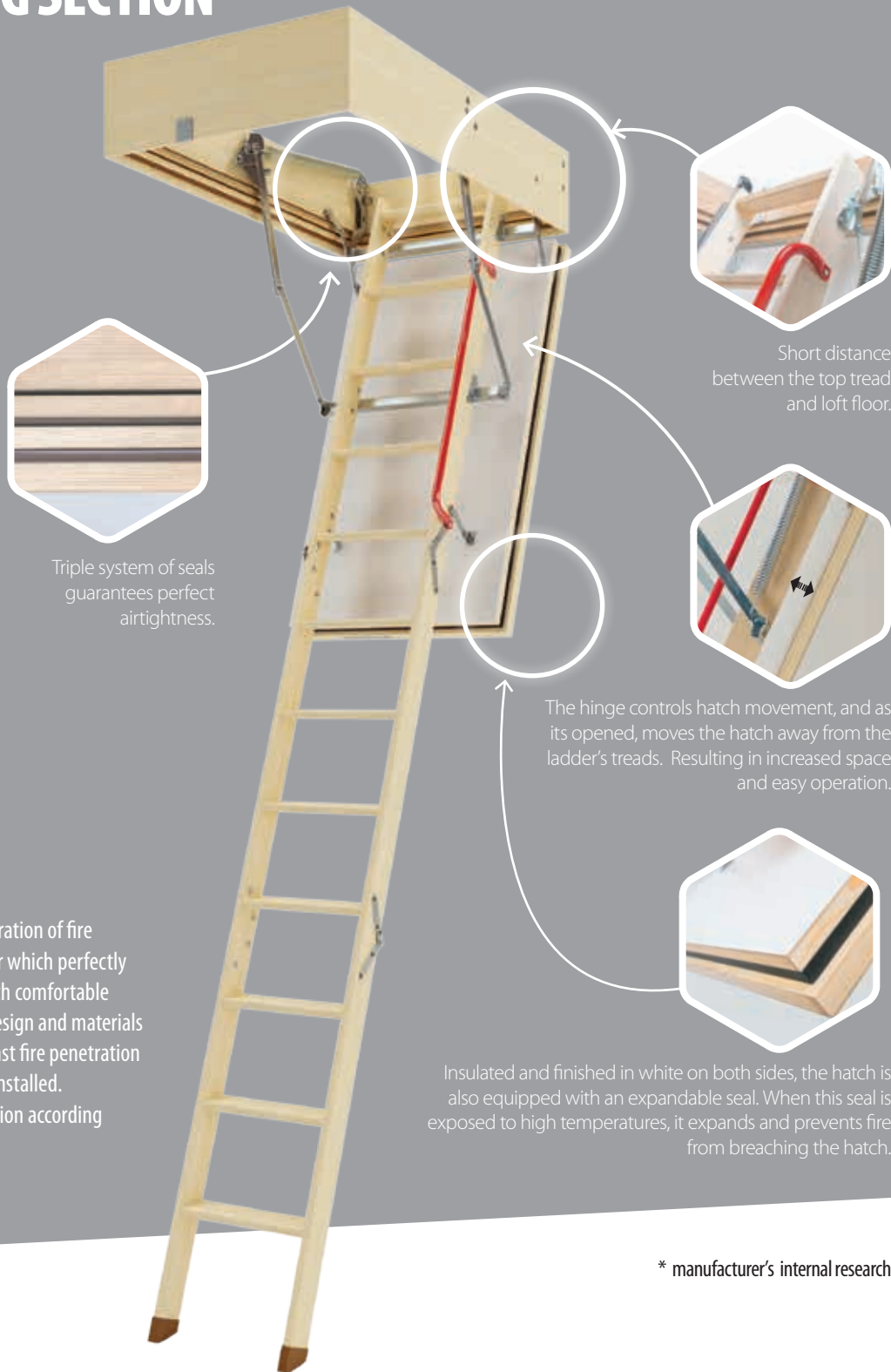
LOFT LADDERS WITH WOODEN FOLDING SECTION

**LWF
60SL**



The **LWF 60 SL** (security lock), a new generation of fire resistant loft ladders with a wooden ladder which perfectly combines a high level of fire protection with comfortable and safe access to the loft. Special hatch design and materials used provide a 60-minute protection against fire penetration from the space where the loft ladder was installed.

Fire resistance class EI₁ 60/EI₂ 60, classification according to EN 13501-2.



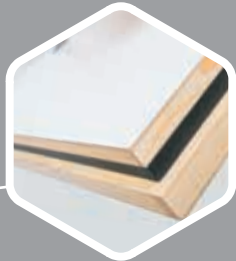
Triple system of seals guarantees perfect airtightness.



Short distance between the top tread and loft floor.



The hinge controls hatch movement, and as its opened, moves the hatch away from the ladder's treads. Resulting in increased space and easy operation.



Insulated and finished in white on both sides, the hatch is also equipped with an expandable seal. When this seal is exposed to high temperatures, it expands and prevents fire from breaching the hatch.

* manufacturer's internal research



stile ends (only in 3-section version)



fire resistant hatch on one side



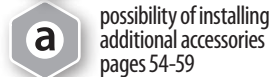
three seals



handrail



non-slip treads set flush with ladder strings



possibility of installing additional accessories pages 54-59



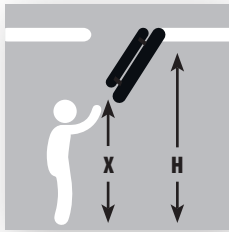
key lock

Technical specification:
maximum load of 160 kg
loft ladder heat transmission coefficient U = 0.64 W/m²K
Fire resistance class EI₁/EI₂ = 60 minutes
insulation thickness 7.9 cm
hatch thickness 8.5 cm

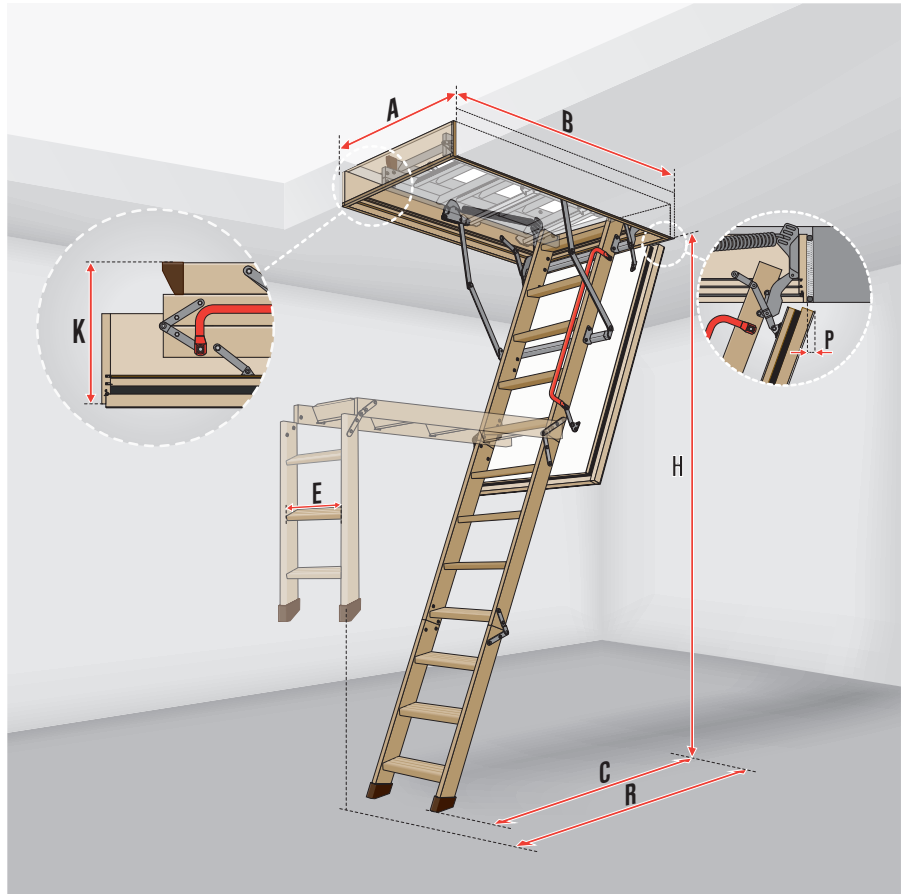
fully assembled, and ready for quick installation in the ceiling



LWF 60 SL LOFT LADDER DIAGRAM



i 3-segment ladder can be equipped with the LXM ladder unloading mechanism (page 58), so that the ladder can be fully operated with a rod



LWF 60 SL LOFT LADDER DIMENSIONS

Ceiling opening dimensions [cm]	AxB	55x100	60x100	70x100	60x120	70x120	70x130	70x140	86x130
Maximum room height [cm]	H	280							
Minimum room height [cm]*	H _{min.}	253			234				
Height to be reached to operate the ladder [cm]	X	235 i			210 i				
Box external dimensions [cm]		53x98	58x98	68x98	58x118	68x118	68x128	68x138	84x128
Internal box dimensions [cm]		49x94	54x94	64x94	54x114	64x114	64x124	64x134	80x124
Folded ladder height [cm]	K	46			38				
Swing space [cm]	R	138			164				
Distance after ladder unfolding [cm]	C	126			129				
Hatch retraction after opening [cm]	P				5				
Box height [cm]					22,5				
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							

* for rooms lower than the maximum standard height H please adjust the length of the ladder according to the assembly instructions

Commercial sizes [cm]		55x100	60x100	70x100	60x120	70x120	70x130	70x140	86x130
Room height [cm]	H	280							

Ladders are available only in sizes shown above.



METAL SECTION LOFT LADDERS

► BOX

The ladder box can be of wood, metal or a combination of a wooden box / metal frame. It has been designed to enable architrave to be installed with ease if the ready-fitted option is not chosen. Peripheral single or double seals provide a good standard of airtightness.

► HATCH UNFOLDING MECHANISM

The hatch opening mechanism enables it to be fully or partly open positions to ensure folding and unfolding are done in safety. LML and LMF loft ladders also have a hidden mechanism in the handrail which in conjunction with that of the hatch opening enables them to be opened or closed with a single rod.

► HARDWARE

The patented corner hinge design adds rigidity to the box and prevents distortion. This ensures that the ladder will continue to be operated trouble-free.

► HATCH

The loft ladder hatch is made of wood or metal and can be either insulated or fire-resistant. The insulation protects against heat loss while fire-resistant material protects against heat build-up caused by spread of flame. The external hatch surface is smooth to blend effectively with the visual style of any interior design.

► TREAD

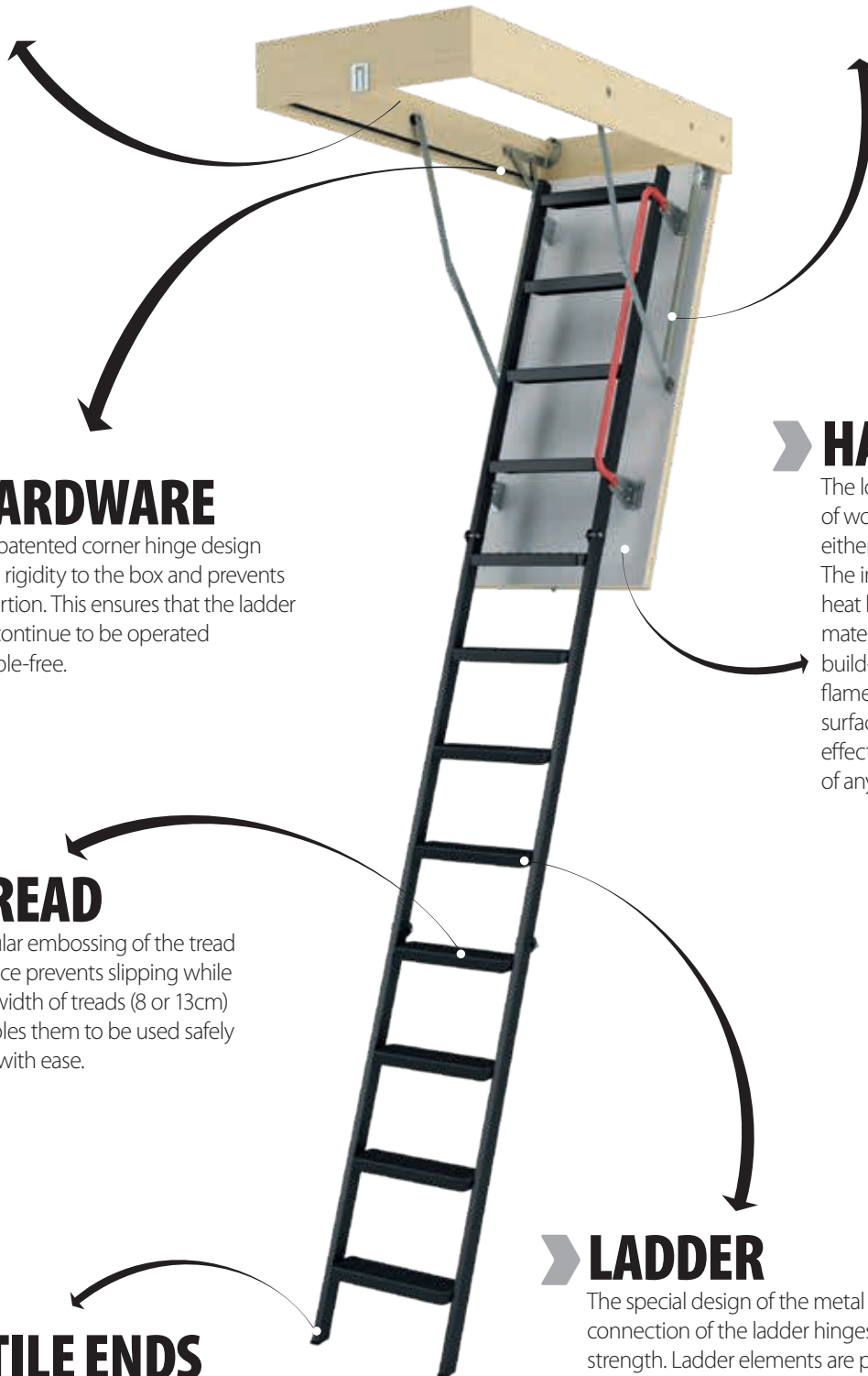
Circular embossing of the tread surface prevents slipping while the width of treads (8 or 13cm) enables them to be used safely and with ease.

► 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 metal ladders have the final two treads left loose and with telescopic stile ends this enables adjustments of the ladder length to be made without the need for cutting.

► STILE ENDS

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



METAL
LOFT LADDERS

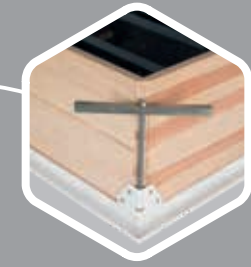


METAL FOLDING SECTION LOFT LADDERS

LML
LUX



The **LML LUX** folding section metal loft ladder has been designed to provide the highest standard of ease and convenience while offering simple assembly and height adjustment.



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



Mechanism hidden within the rail aids folding and unfolding of the ladder.



Additional tread shortens distance between top tread and loft floor.



Telescopic stile ends enable quick adjustment of ladder length to suit ceiling 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



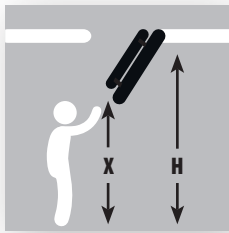
possibility of installing additional accessories pages 54-59

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

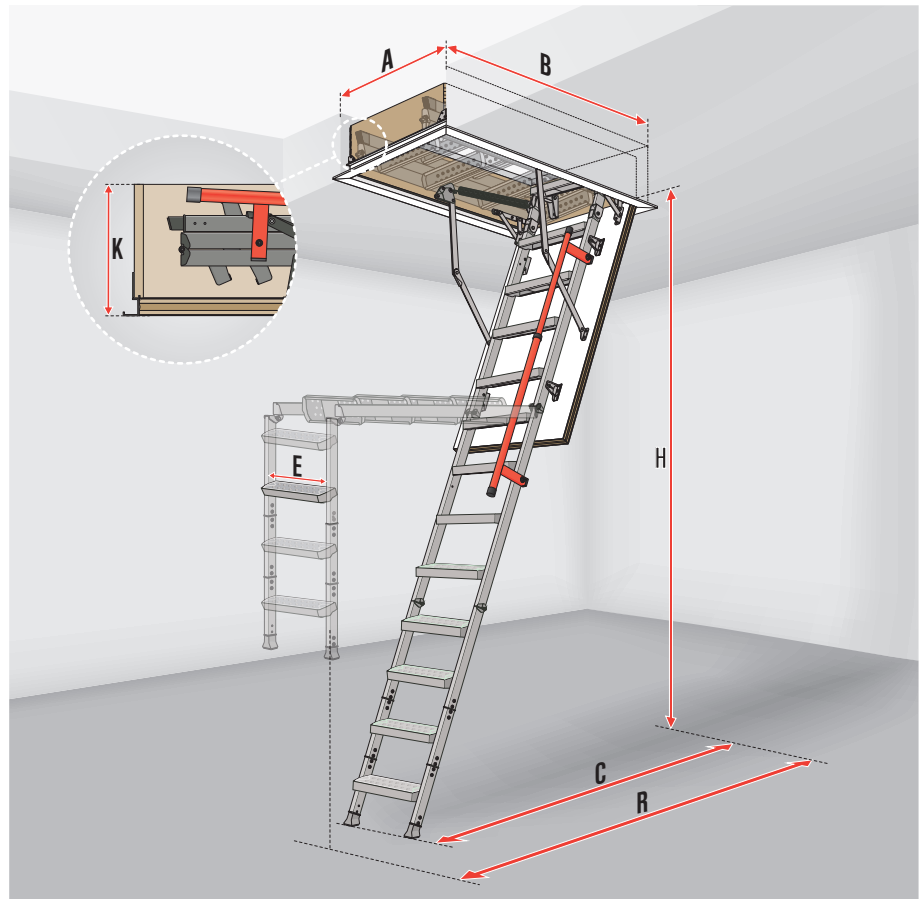
fully assembled,
and ready for quick
installation in the ceiling



LML LUX LOFT LADDER DIAGRAM



i The LML LUX ladders as standard are equipped with ladder unloading mechanism, so they can be fully operated with the opening rod (hatch opening and closing, ladder unfolding).



LML LUX LOFT LADDER DIMENSIONS

Ceiling opening dimensions [cm]	AxB	60x120	70x120	70x130	70x140	86x130	92x130	60x130	70x130	70x140	86x130	92x130
Maximum room height [cm]	H				280					305		
Minimum room height [cm]*	H _{min.}				233					256		
Height to be reached to operate the ladder [cm]	X				205					230		
Box external dimensions [cm]		59.6x118.6	68.6x118.6	68.6x128.6	68.6x138.6	84.6x128.6	90.6x128.6	59.6x128.6	68.6x128.6	68.6x138.6	84.6x128.6	90.6x128.6
Box external dimensions with architrave linings [cm]		63.6x122.6	72.6x122.6	72.6x132.6	72.6x142.6	88.6x132.6	94.6x132.6	63.6x132.6	72.6x132.6	72.6x142.6	88.6x132.6	94.6x132.6
Internal box dimensions [cm]		54.7x113.7	63.7x113.7	63.7x123.7	63.7x133.7	79.7x123.7	85.7x123.7	54.7x123.7	63.7x123.7	63.7x133.7	79.7x123.7	85.7x123.7
Folded ladder height [cm]	K						31.5					
Swing space [cm]	R				167					178		
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					

* for rooms lower than the maximum standard height H please adjust the length of the ladder according to the assembly instructions

LOFT LADDER

Commercial sizes [cm]		60x120	70x120	70x130	70x140	86x130	92x130	60x130	70x130	70x140	86x130	92x130
Room height [cm]	H				280					305		

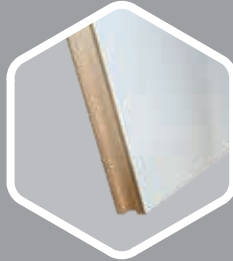
Ladders are available only in sizes shown above.

METAL LOFT
LADDERS



METAL FOLDING SECTION LOFT LADDERS

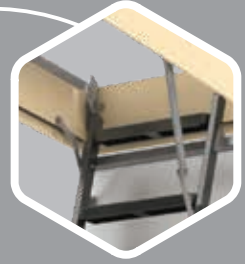
LMP



White on both sides, 3.6 cm thick, insulated hatch equipped with a latch

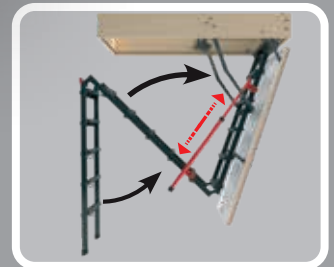


Added safety, thanks to lock which prevents against unintentional folding.



Short distance between the last tread and attic floor enhances the comfort of use.

366 cm



Insulated and finished in white on both sides, the hatch is also equipped with an expandable seal. When this seal is exposed to high temperatures, it expands and prevents fire from breaching the hatch.

The **LMP** new generation loft ladder, allows access to attic space, even in very high ceiling rooms (from 300 to 366cm). The unloading system used in ladder allows for convenient operation while maintaining the maximum comfort and safety of use.



stile ends



white hatch



peripheral seal



ladder unloading mechanism built in handrail



non-slip treads



possibility of installing additional accessories pages 54-59



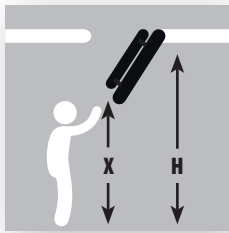
for high rooms

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

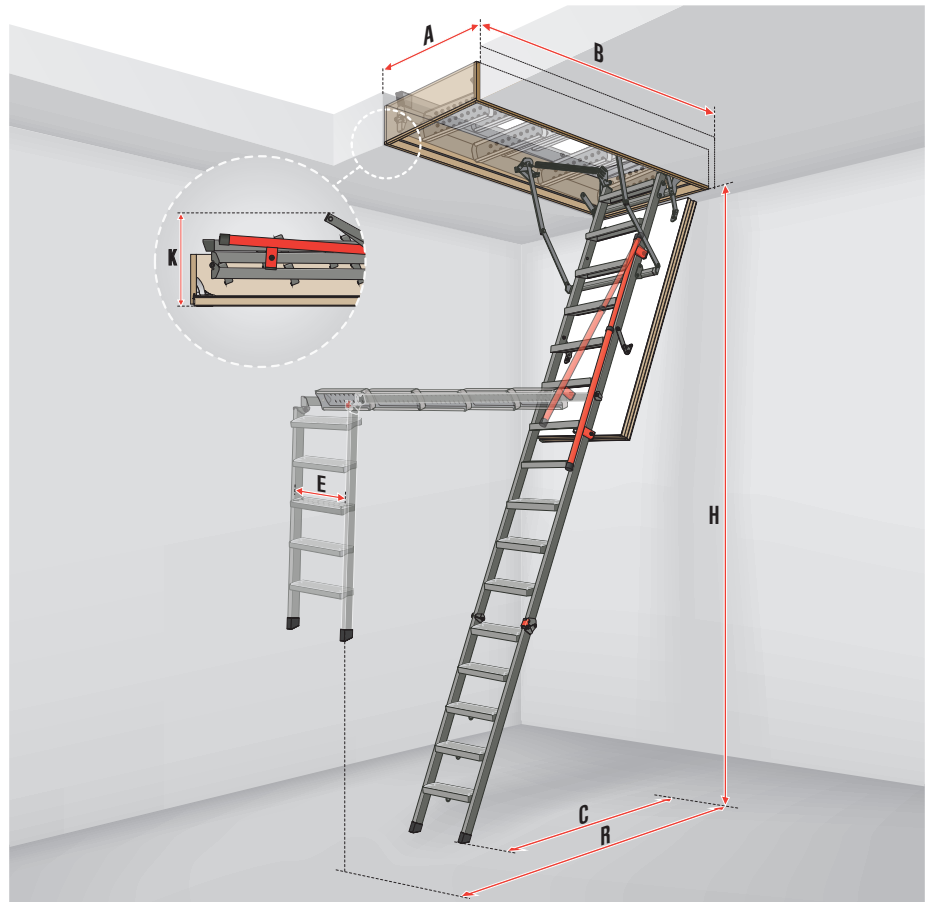
fully assembled, and ready for quick installation in the ceiling



LMP LOFT LADDER DIAGRAM



i The LMP ladders as standard are equipped with ladder unloading mechanism, so they can be fully operated with the opening rod (hatch opening and closing, ladder unfolding).



LMP LOFT LADDER DIMENSIONS

Ceiling opening dimensions [cm]	AxB	60x144	70x144	86x144
Maximum room height [cm]	H	366		
Minimum room height [cm]*	H _{min.}	300		
Height to be reached to operate the ladder [cm]	X i	270		
Box external dimensions [cm]	WxL	58x142.2	68x142.2	84x142.2
Internal box dimensions [cm]	MxN	54x138.2	64x138.2	80x138.2
Folded ladder height [cm]	K	32		
Swing space [cm]	R	196		
Distance after ladder unfolding [cm]	C	145		
Box height [cm]		18		

LADDER PARAMETERS

Tread length [cm]	E	34
Tread width [cm]	S	8
Distance between treads [cm]	G	24

* for rooms lower than the maximum standard height H please adjust the length of the ladder according to the assembly instructions

LOFT LADDER

Commercial sizes [cm]		60x144	70x144	86x144
Room height [cm]	H	366		

Ladders are available only in sizes shown above.

METAL LOFT
LADDERS



METAL FOLDING SECTION LOFT LADDERS

LMF 60



Triple system of seals guarantees perfect tightness.

only in loft ladders to room height 360cm

The LMF 60 to room height 360cm as standard are equipped with ladder unloading mechanism, so they can be fully operated with the opening rod (hatch opening and closing, ladder unfolding).

The **LMF 60** a new generation of fire resistant loft ladders with metal ladder which perfectly combines a high level of fire protection with comfortable and safe access to the loft. The materials used provide 60-minute protection against fire penetration from the space where the loft ladder was installed.

Short distance between the last tread and attic floor.

The hinge controls hatch movement, and as its opened, moves the hatch away from the ladder's treads. Resulting in increased space and easy operation.

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 research



stile ends



ladder unloading mechanism built in handrail (in version 360cm in height).



one-sidedly fire-resistant hatch



non-slip treads



seal



possibility of installing additional accessories pages 54-59



handrail (in loft ladders in version 280 and 305cm)



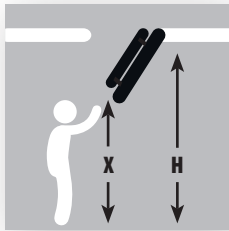
360 cm for high rooms

Technical specification:
permissible loading of 200 kg
loft ladder heat transmission coefficient $U = 0.64 \text{ W/m}^2\text{K}^*$
Fire resistance class EI₁/EI₂ = 60 minutes
insulation thickness 7.8 cm
hatch thickness 8.5 cm

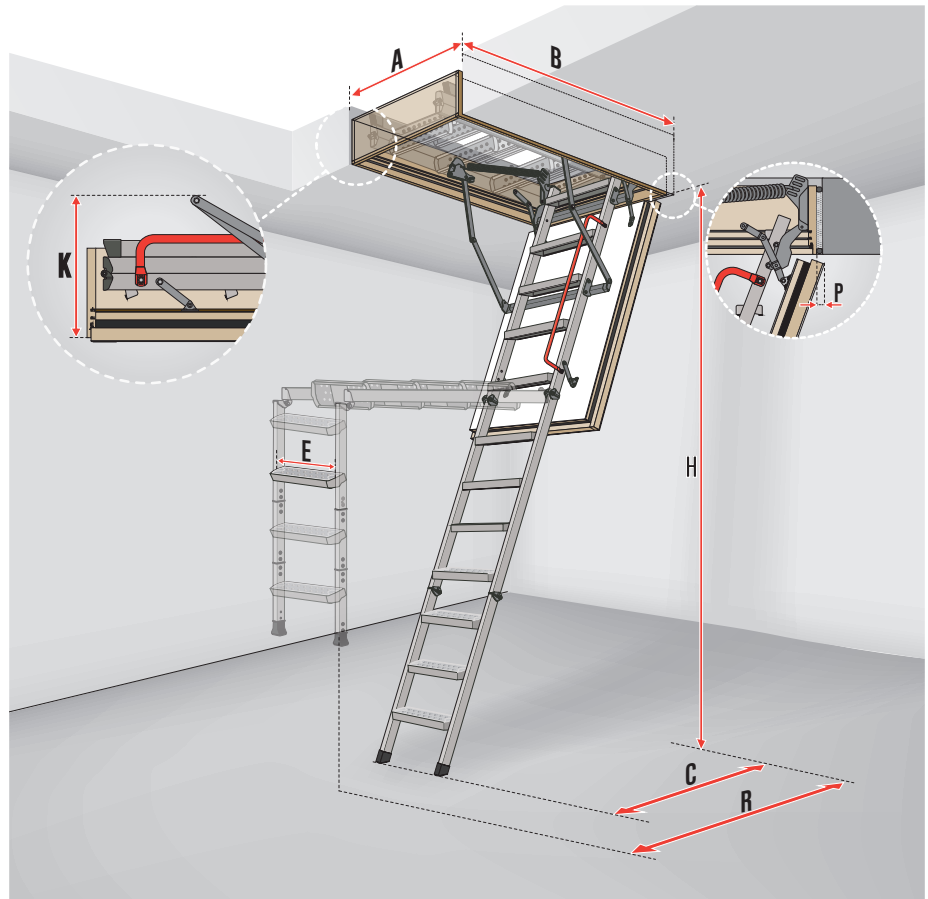
fully assembled, and ready for quick installation in the ceiling



LMF 60 LOFT LADDER DIAGRAM



i The LMF60 ladders up to the height of 360 cm are as standard equipped with ladder unloading mechanism, so they can be fully operated with the opening rod (hatch opening and closing, ladder unfolding).



LMF 60 LOFT LADDER DIMENSIONS

Ceiling opening dimensions [cm]	AxB	60x120	70x120	70x130	86x130	70x130	70x140	86x130	60x144	70x144	86x144
Maximum room height [cm]	H			280			305			360	
Minimum room height [cm]*	H _{min.}			233			234			295	
Height to be reached to operate the ladder [cm]	X			210			230			i 265	
Box external dimensions [cm]		58x118	68x118	68x128	84x128	68x128	68x138	84x128	58x142.2	68x142.2	84x142.2
Box internal dimensions [cm]		54x114	64x114	64x124	80x124	64x124	64x134	80x124	54x138.2	64x138.2	80x138.2
Folded ladder height [cm]	K						39				
Swing space [cm]	R			156			167			194	
Distance after ladder unfolding [cm]	C			125			135			156	
Hatch retraction after opening	P						5				
Box height [cm]							22.5				
Number of sections							3				

LADDER PARAMETERS

Tread length [cm]	E						34				
Tread width [cm]	S						8				
Distance between treads [cm]	G						25			24	

* For rooms lower than the standard maximum height "H", it is required to match the ladder length in accordance with the fitting instructions.

LOFT LADDER

Commercial sizes [cm]		60x120	70x120	70x130	86x130	70x130	70x140	86x130	60x144	70x144	86x144
Room height [cm]	H			280			305			360	

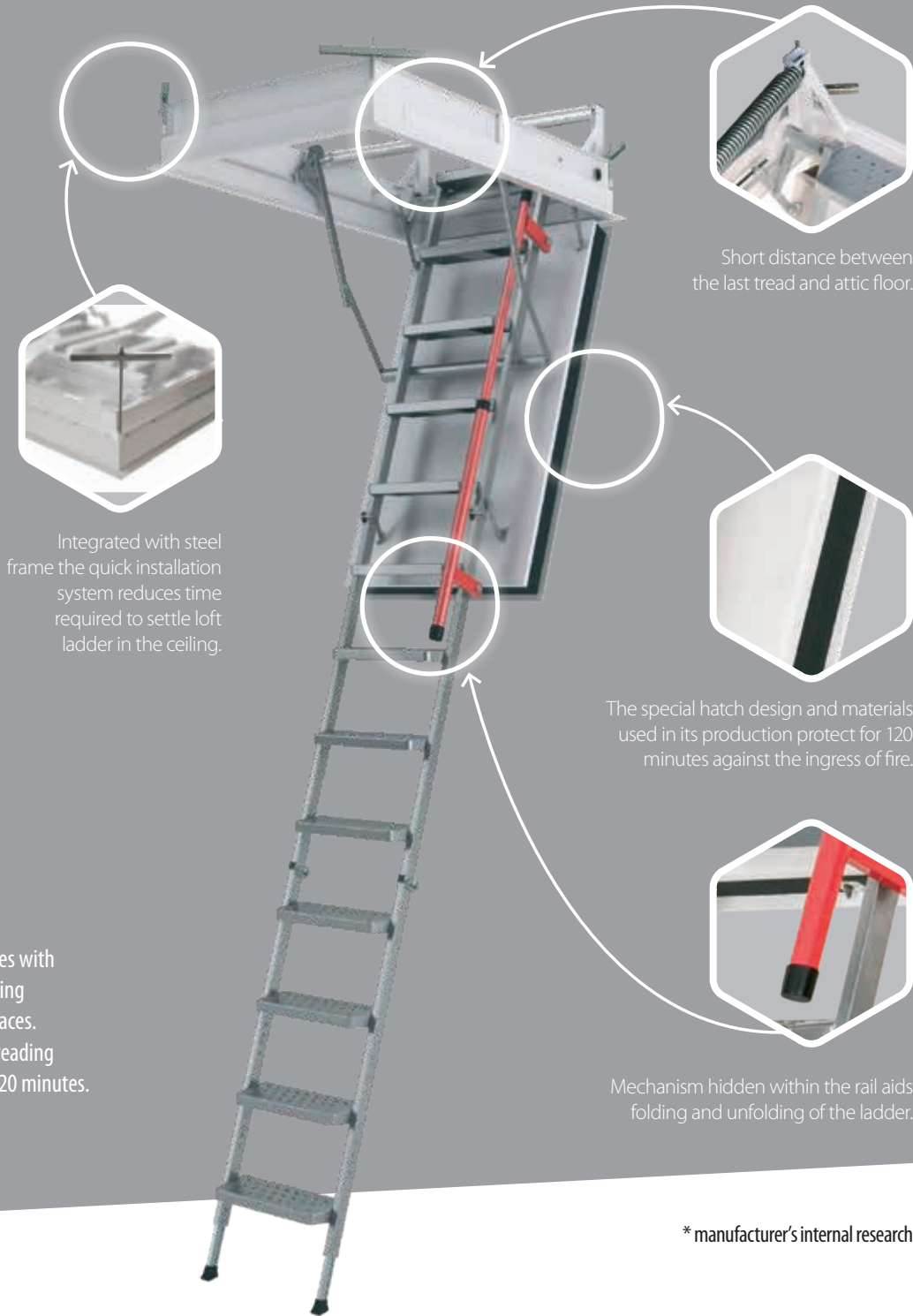
Ladders are available only in sizes shown above.

FIRE-RESISTANT LOFT LADDERS

**LMF
120**



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



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

Short distance between the last tread and attic floor.

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

Mechanism hidden within the rail aids folding and unfolding of the ladder.

* manufacturer's internal research

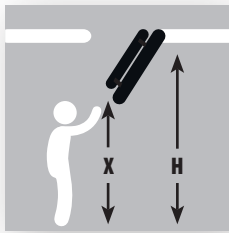
- telescopic stile ends
- fire-resistant hatch
- architrave lining
- seal
- ladder unloading mechanism built in handrail
- system of quick installation in the ceiling
- non-slip treads, 13 cm in width
- possibility of installing additional accessories pages 54-59

Technical specification:
permissible loading of 200 kg
hatch heat transmission coefficient $U = 0.79 \text{ W/m}^2\text{K}$
fire-resistance EI_{120} = 120 minutes
insulation thickness 8 cm
hatch thickness 8.2 cm

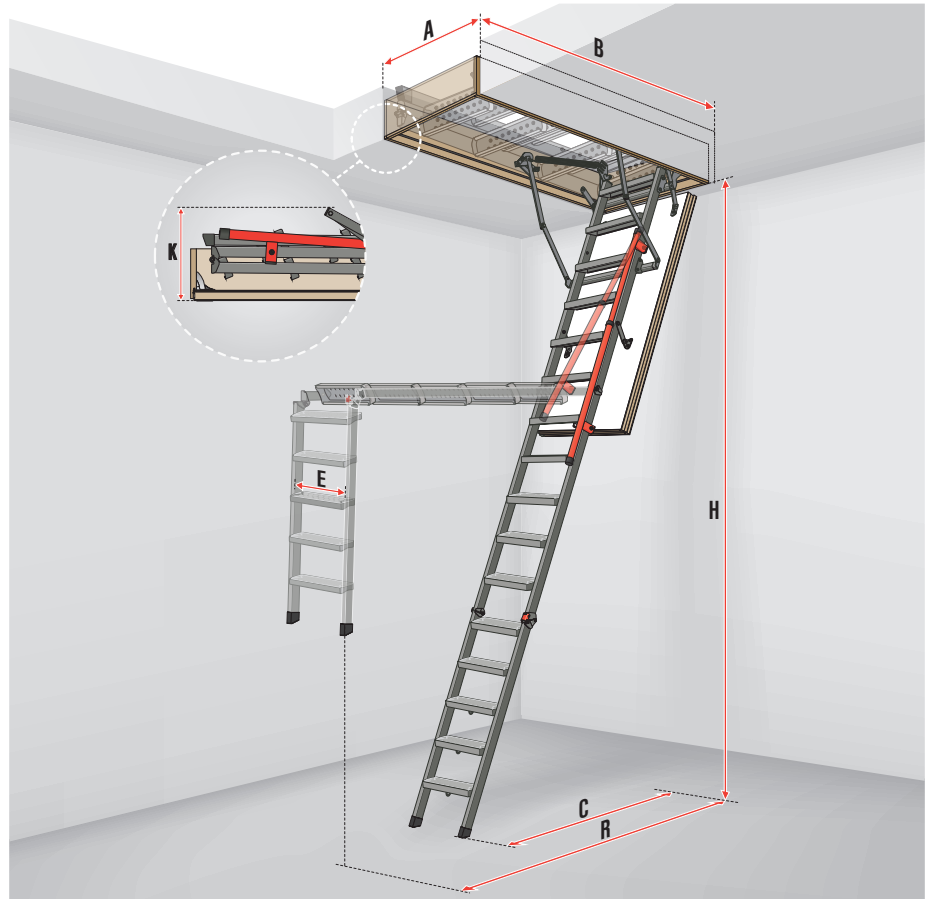
fully assembled,
and ready for quick
installation in the ceiling



LMF 120 LOFT LADDER DIAGRAM



The LMF 120loft ladders are as standard equipped with ladder unloading mechanism, so they can be fully operated with the opening rod (hatch opening and closing, ladder unfolding).



LMF 120 LOFT LADDER DIMENSIONS

Ceiling opening dimensions [cm]	AxB	70x120	70x130	70x140	70x130
Maximum room height [cm]	H		280		305
Minimum room height [cm]*	H _{min.}		233		256
Height to be reached to operate the ladder [cm]	X		220		235
Box external dimensions [cm]		68x118	68x128	68x138	68x128
Box external dimensions with architrave linings		73.7x123.7	73.7x133.7	73.7x143.7	73.7x133.7
Internal box dimensions [cm]		64x114	64x124	64x134	64x124
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		

* for rooms lower than the maximum standard height H please adjust the length of the ladder according to the assembly instructions

LOFT LADDER

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

Ladders are available only in sizes shown above.



SCISSORS LOFT LADDERS

► BOX

The ladder box can be of wood, metal or a combination of a wooden box / metal frame. The box is equipped with a peripheral seal and lining as standard. The box enables the scissors ladder to be installed and adjusted quickly and with ease.

► HATCH UNLOADING MECHANISM

The hinge mechanism significantly simplifies ladder operation. Once unlocked, the hatch opens slowly to avoid any risk to the user. It then keeps the hatch in the fully open position and prevents spontaneous spring back during folding and unfolding.

► HARDWARE

The patented corner hinge design adds rigidity to the box and prevents distortion. This ensures that the ladder will continue to be operated trouble-free.

► HATCH

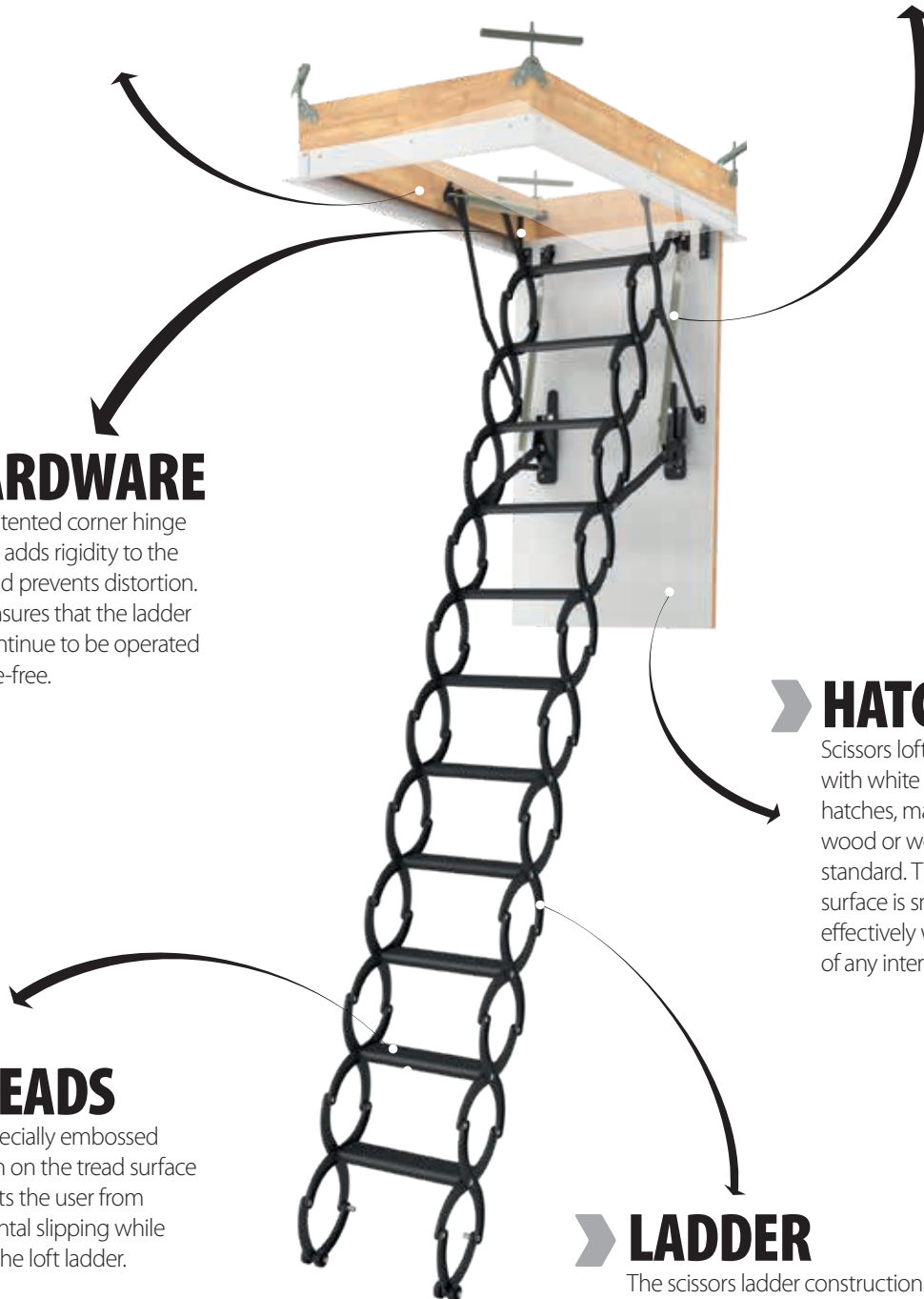
Scissors loft ladders are equipped with white insulated or fire-resistant hatches, made of either wood or wood and metal as standard. The external hatch surface is smooth to blend effectively with the visual style of any interior design.

► TREADS

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

► LADDER

The scissors ladder construction makes height adjustment a simple process with no need for cutting. It also enables the ladder to be folded to a smaller size and used in openings as small as 50 x 70cm. The elegant, modern style is achieved through use of 'S'-shaped stringers which can also be used as handrails.



LOFT LADDER LET ELECTRIC

LET
ELECTRIC

U-0.51*
LOFT LADDER
W/m²K

4 CLASS*
EN12207

MAX
200
kg

standard
EN
14975

The **LET Electric** is the first model of FAKRO electrically operated loft ladders. It provides the highest comfort of use and is operated using one of two available control sets: Z-Wave or WiFi. Each control set is additionally equipped with a standard wall switch. The LET loft ladder ensures excellent insulation performance and high workmanship. It is mandatory to purchase a control set for the loft ladder.

Integrated steel frame with a white finish

Innovative super-thermal hatch filled with 100% polystyrene (EPS), 80 mm thick, white on both sides with white ABS sheets.

Integrated steel frame with a white finish

WAVE

tuya[®]

 manual control

 WiFi control

 Z-Wave control

 thermo hatch in white

 three seals

 possibility of installing additional accessories

 non-slip treads

 system of quick installation in the ceiling

 system of adopting the ladder length to the ceiling height

When ordering the LET loft ladder, it is obligatory to purchase one of the offered control modules Z-Wave ZWMS or WiFi ZWMS.

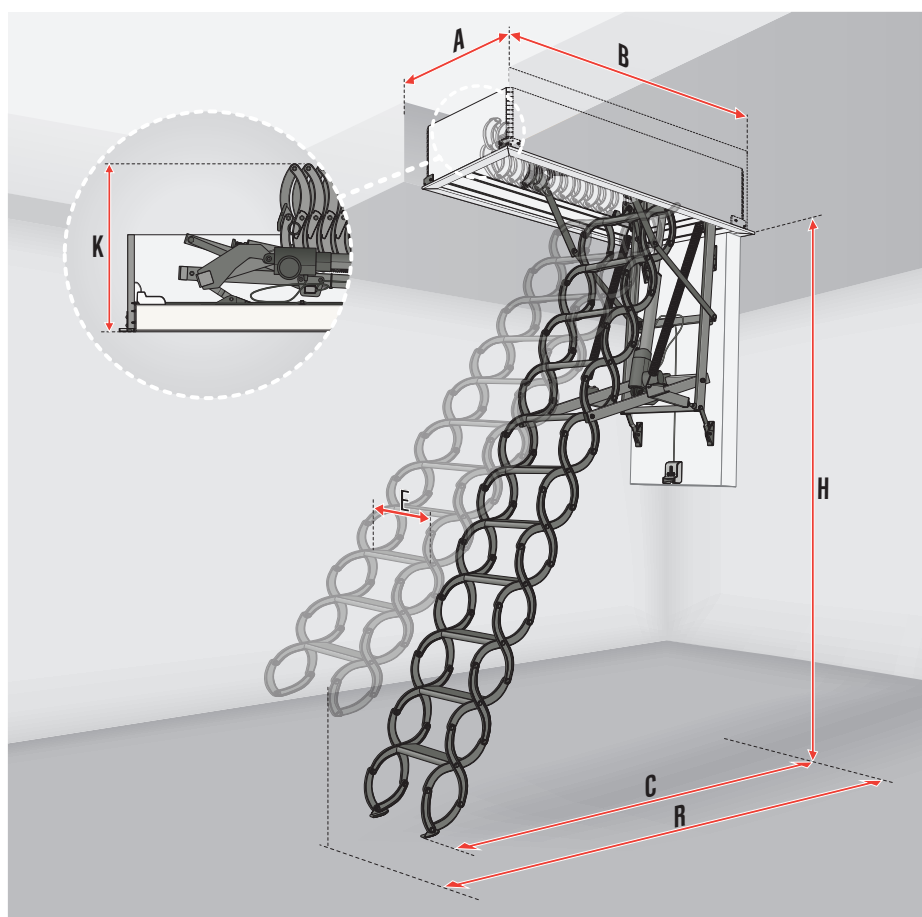
Technical specification:
maximum load of 200 kg
loft ladder heat transmission coefficient $U = 0.51 \text{ W/m}^2\text{K}^*$
insulation thickness 7.4 cm
hatch thickness 8.0 cm

fully assembled,
and ready for quick
installation in the ceiling

3
years
warranty



LET ELECTRIC LOFT LADDER DIAGRAM



LET ELECTRIC LOFT LADDER DIMENSIONS

Ceiling opening dimensions [cm]	AxB	60x120	60x130	60x140	70x120	70x130	70x140
Room height [cm]	H	270 - 290					
External box dimensions [cm]	WxL	59,2x119,2	59,2x129,2	59,2x139,2	69,2x119,2	69,2x129,2	69,2x139,2
External box dimensions with lining slats [cm]		63,2x123,2	63,2x133,2	63,2x143,2	73,2x123,2	73,2x133,2	73,2x143,2
Internal box dimensions [cm]	MxN	54x114	54x124	54x134	64x114	64x124	64x134
Folded ladder height [cm]	K	60					
Swing space [cm]	R	165					
Tread length [cm]	C	158 - 147					

LADDER PARAMETERS

Tread length [cm]	E	30	38
Distance between treads [cm]	G	24 - 26	
Standard number of treads [pcs]		12	
Compatible LSS-L tread		LSS-L60	LSS-L70

	Ladder shorter by 2 treads (10 treads)	Ladder shorter by 1 tread (11 treads)	Standard ladder (12 treads)	Possible for LET loft ladder sized: ... x 130, ... x 140"	Possible for LET loft ladder sized: ... x 140cm"
H	225-245	245-270	270-290	Ladder longer by 1 tread (13 treads) 290-315	Ladder longer by 2 treads (14 treads) 315-340
R	145	155	165	176	186
C	135-125	148-135	158-147	167-155	175-163

PRECIOS DE ESCALERAS

Commercial sizes [cm]	60x120	60x130	60x140	70x120	70x130	70x140
Minimum - maximum height H	270 - 290					

Ladders are available only in sizes shown above.

SCISSORS
LOFT LADDERS



SCISSORS LOFT LADDERS

LST



The **LST** scissors loft ladder is equipped with a 3.6cm thick, white insulated hatch as standard. The box is made of wood and has quick-fit brackets while the hatch opening mechanism guarantees safe folding and unfolding. In addition, its construction has eliminated the need for a lock. The ladder itself is powder-coated in RAL 7022 Grey. The overall floor – ceiling ladder height can be increased to a maximum of 330cm by adding two LSS treads.



Wooden box with metal architrave lining and quick-fit brackets.



white hatch



architrave lining



peripheral seal



non-slip treads



possibility of adding or detaching tread



system of quick installation in the ceiling



system of adapting the ladder length to the ceiling height



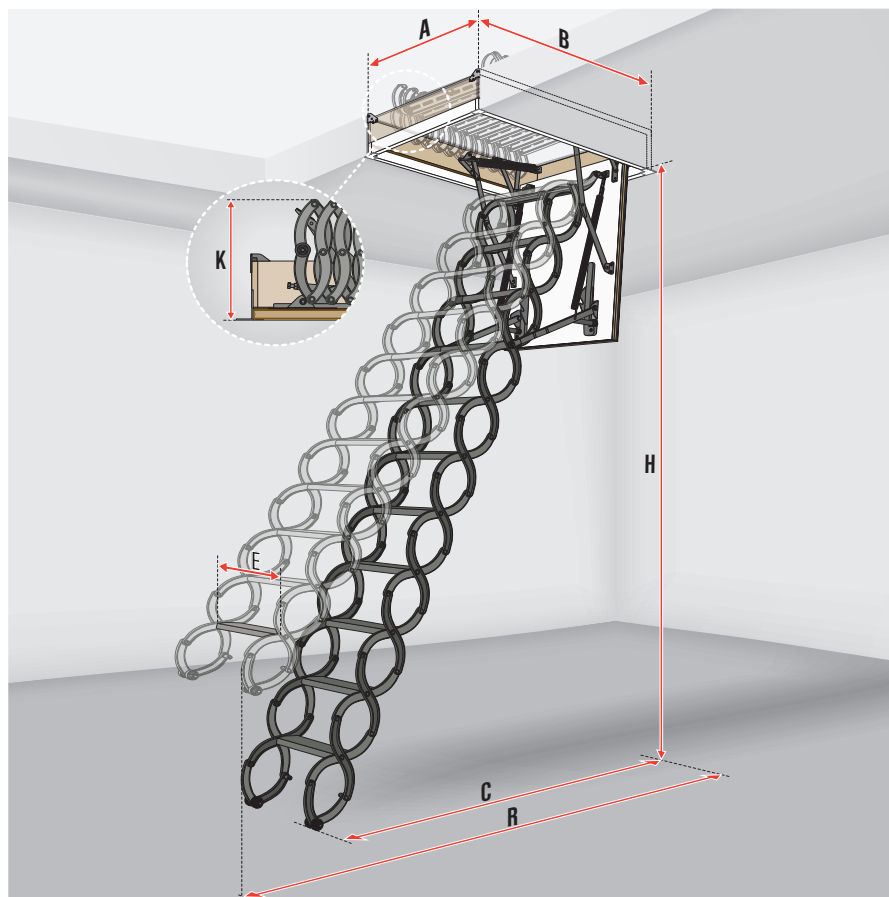
possibility of installing additional accessories

Technical specification:
permissible loading of 200 kg
hatch 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



LST LOFT LADDER DIAGRAM



LST LOFT LADDER DIMENSIONS

		Standard ladder length				
Ceiling opening dimensions [cm]	AxB	50x80	60x90	60x120	70x80	70x120
Room height [cm]	H	250 – 280				
Box external dimensions [cm]		49x79.4	59x89.4	59x119.4	69x79.4	69x119.4
Box external dimensions with architrave linings		54x84.4	64x94.4	64x124.4	74x84.4	74x124.4
Internal box dimensions [cm]		44x74	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				

LADDER PARAMETERS

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

LOFT LADDER

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

Ladders are available only in sizes shown above.

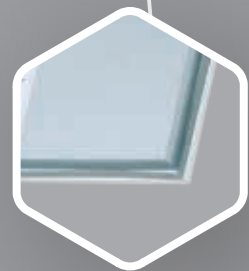
Ladder shorter by 1 tread (10-tread ladder)		Standard ladder (11-tread ladder)		Ladder longer by 1 tread (12-tread ladder)		Ladder longer by 2 treads (13-tread ladder)	
230	250	250	280	280	300	300	330
Sizes and dimensions of loft ladder not included into the table are identical with those for heights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

tread*	LSS-24	LSS-31
ladder width [cm]	50	60-70

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

SCISSORS LOFT LADDERS

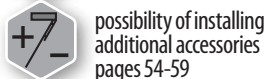
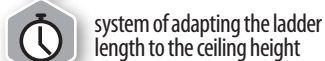
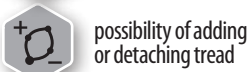
LSF



The **LSF** fire-resistant loft ladder has a 60-minute fire rating and acts as a barrier to prevent spread of flame. The overall floor – ceiling ladder height can be increased to a maximum of 320cm by adding one LSS tread.

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

*manufacturer's internal research

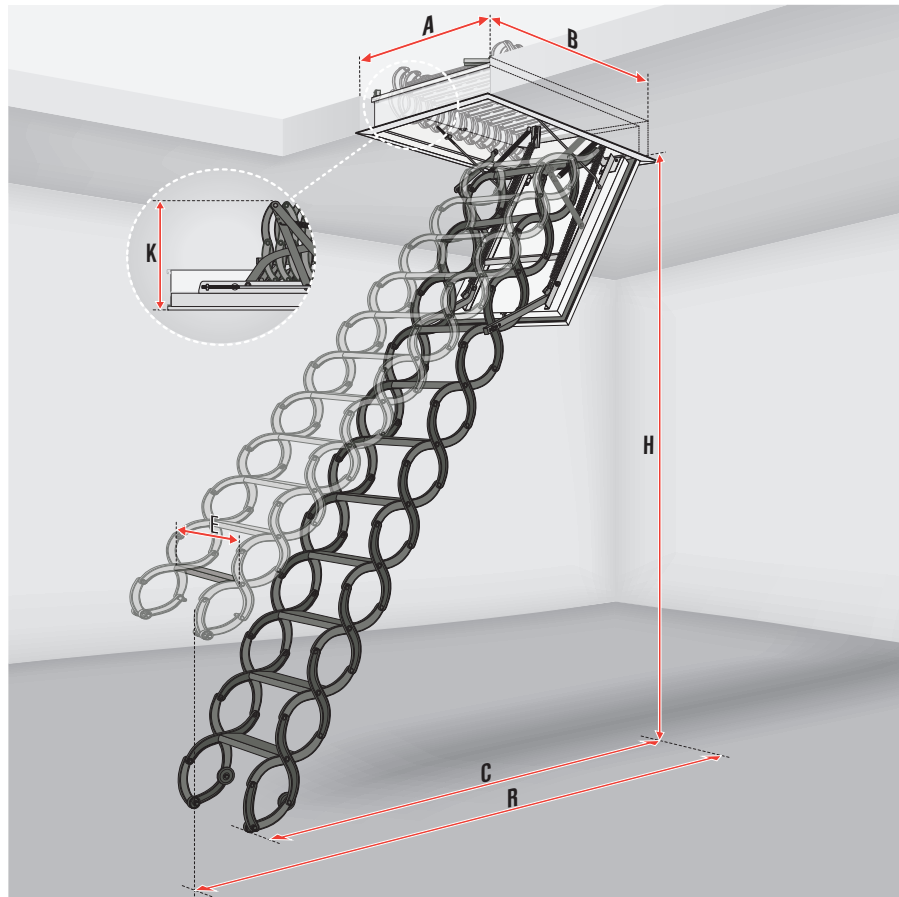


Technical specification:
permissible loading of 200 kg
fire-resistance EI₂ = 60 minutes
insulation thickness 3 cm
hatch thickness 5.6cm

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
Box external dimensions with architrave linings		54.8x75	64.8x95	64.8x125	74.8x85	74.8x95	74.8x115	74.8x125
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

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

LOFT LADDER

Commercial sizes [cm]	50x70	60x90	60x120	70x80	70x90	70x110	70x120
Room height [cm]	270 – 300						

Ladders are available only in sizes shown above.

tread*	LSS-30	LSS-32	LSS-40
ladder width [cm]	50	60	70

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

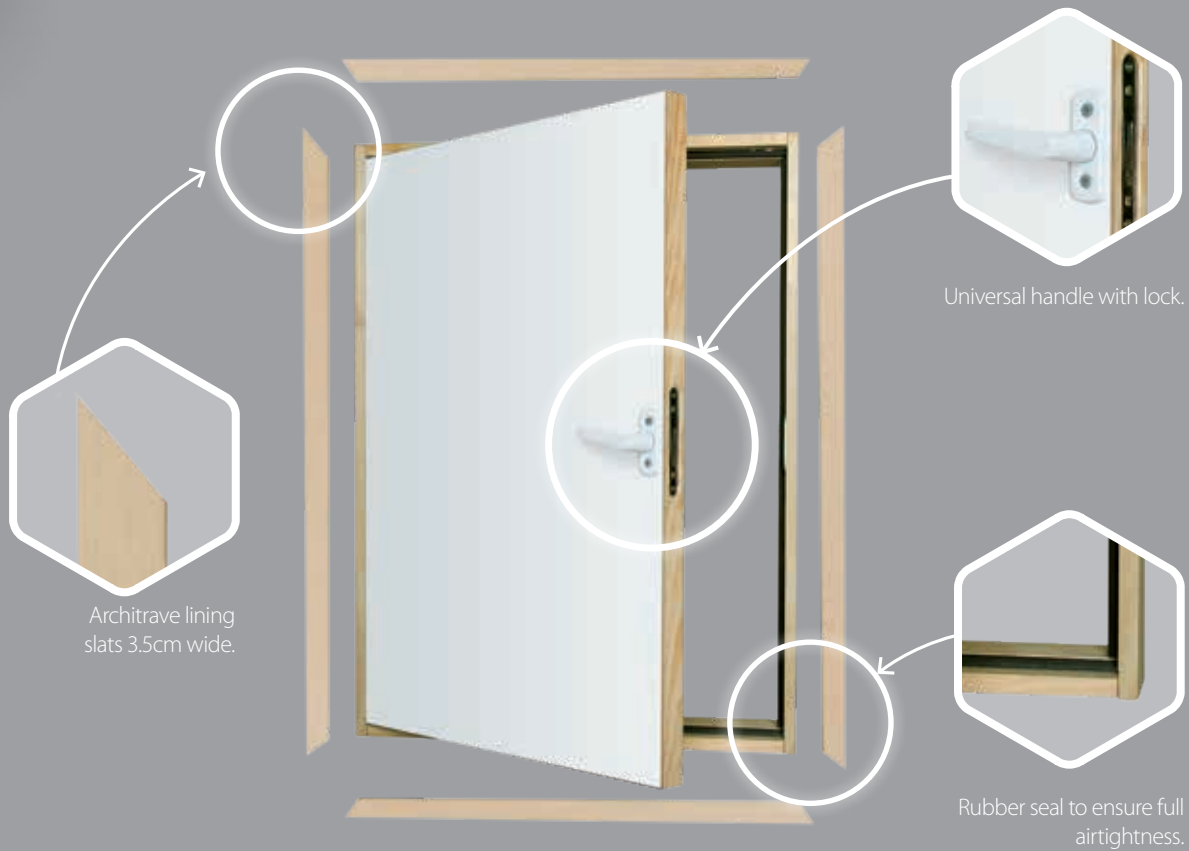
WOODEN
DOORS



L-SHAPED COMBINATION DOORS

DWK L-Shaped combination doors are intended to be built into walls to provide access to the unused space behind. They offer excellent thermal insulation parameters ($U=1.1 \text{ W/m}^2\text{K}$) and airtightness to minimise heat loss. Left or right-hand opening versions are available, standard doors being equipped with 3.5cm wide natural timber-coloured slats. The 3.6cm insulated sash is of HDF and has a white veneer on both sides and pine frame.

DWK



U=1,1
W/m²K

* manufacture's internal testing
for the middle part of the sash



architrave lining



Technical specification:

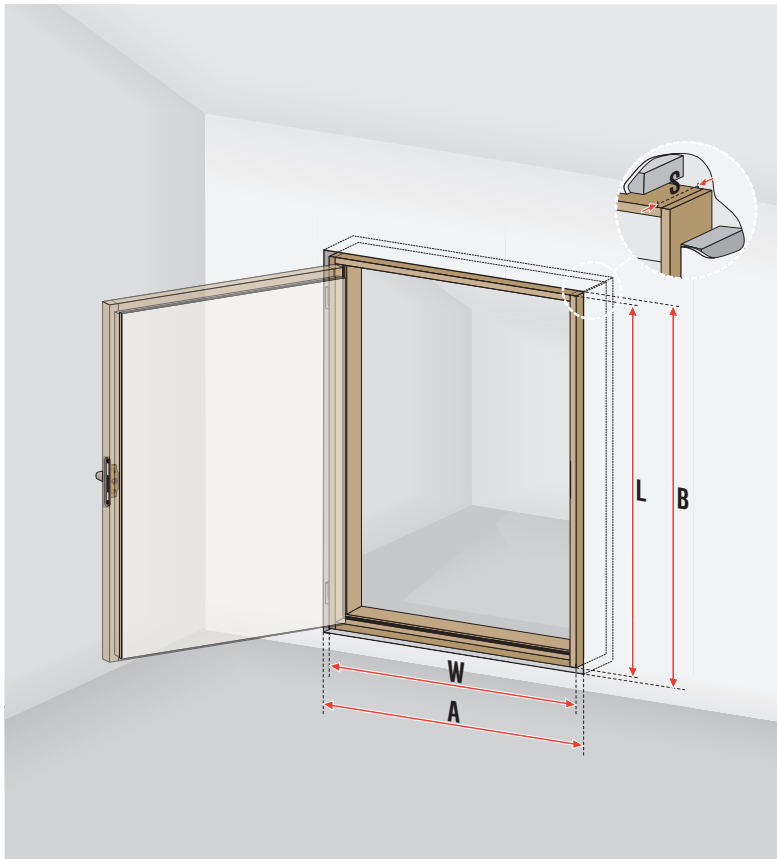
heat transmission coefficient $U = 1.1 \text{ W/m}^2\text{K}$
insulation thickness 3 cm

fully assembled, and ready for
quick installation in the ceiling



3 years
warranty

DWK DOOR DIAGRAM



TECHNICAL SPECIFICATION:			
	DWK	DWT	DWF
heat transmission coefficient U [W/m ² K]	1.1*	0.6	0.64
tightness class according to EN 12207	-	4	4
fire resistant	-	-	E ₁ /E ₂ 45
insulation thickness [cm]	3	6	6
sash thickness [cm]	3.6	6.6	6.6

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	8.5						
Frame thickness [cm]	Z	2.7						

L-SHAPED DOORS

Commercial sizes [cm]	55x80	60x80	60x100	60x110	70x90	70x100	70x110

DWK doors are available only in sizes shown above.

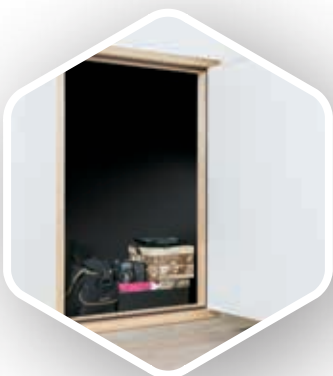
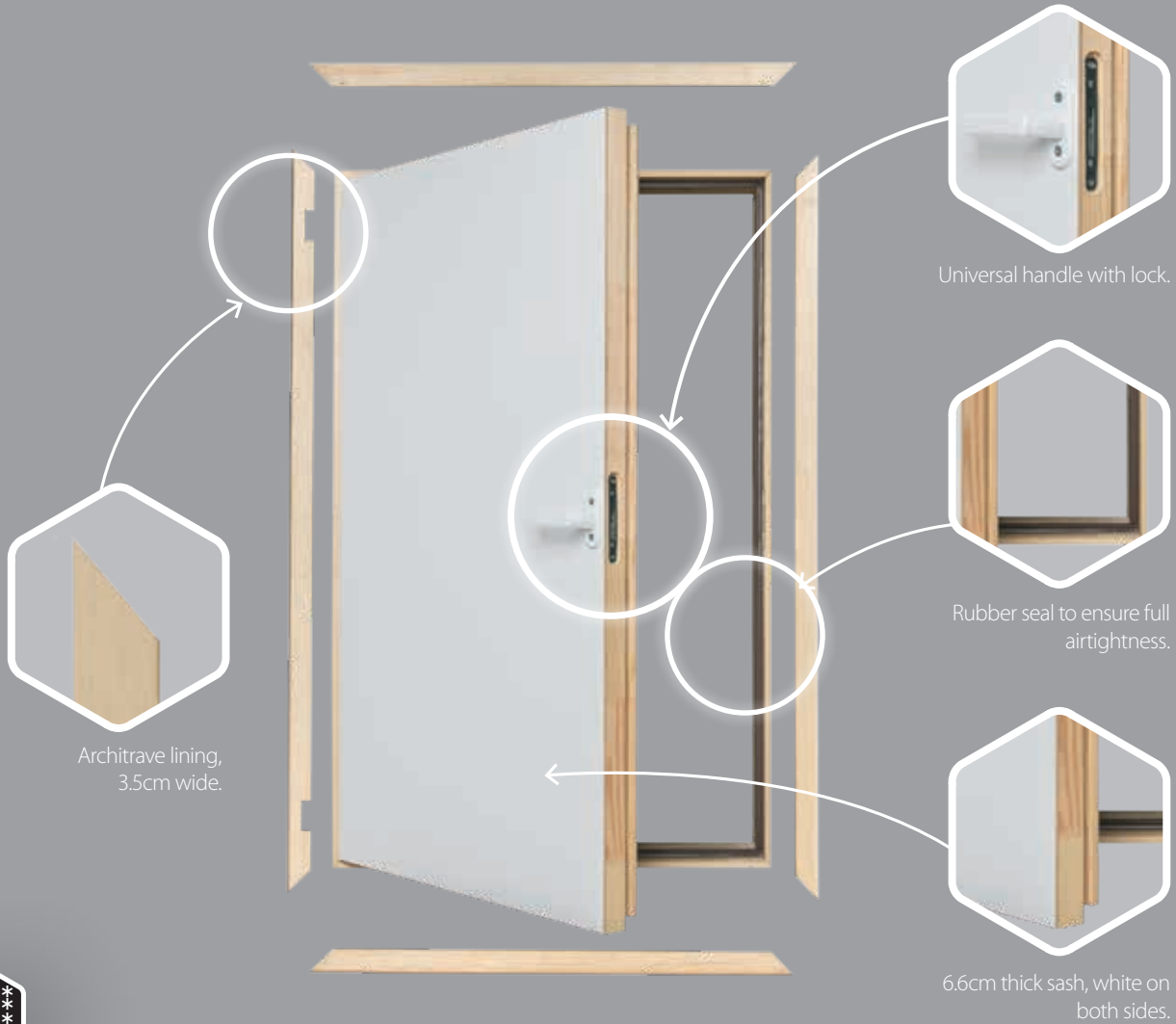
WOODEN
DOORS



HIGHLY ENERGY-EFFICIENT WOODEN DOORS

DWT

The **DWT** highly energy efficient L-shaped doors are designed primarily for installation in L-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 airtightness. The door can be installed in the right or left side. They are as standard equipped with wooden architrave lining in natural colour.



architrave lining



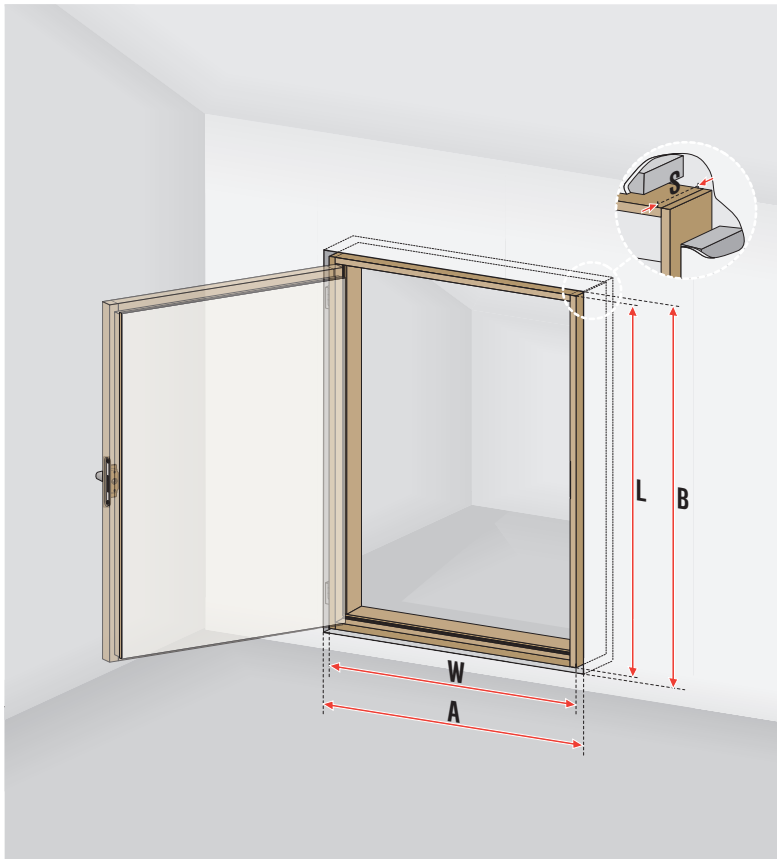
Technical specification:

heat transmission coefficient $U = 0.6 \text{ W / m}^2\text{K}^*$
insulation thickness 6 cm

fully assembled, and ready for quick installation in the ceiling



DWT DOOR DIAGRAM



TECHNICAL SPECIFICATION:			
	DWK	DWT	DWF
heat transmission coefficient U [W/m²K]	1.1*	0.6	0.64
tightness class according to EN 12207	-	4	4
fire resistant	-	-	E ₁ /E _{1.5}
insulation thickness [cm]	3	6	6
sash thickness [cm]	3.6	6.6	6.6

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

DWT doors are available only in sizes shown above.

WOODEN
DOORS



L-SHAPED COMBINATION DOORS

DWF L-shaped combination fire-resistant doors have a 60-minute fire rating – (EN 13501-2) to protect against the spread of flame while providing access to unused space behind a wall. The white 6.6 cm thick sash has thermo insulation to provide an excellent barrier against heat loss ($U=0.64 \text{ W/m}^2\text{K}^*$). The door can be installed in the right or left side. They are as standard equipped with wooden architrave lining in natural colour.

DWF



*manufacturer's internal testing for sash
** manufacturer's internal research



architrave lining



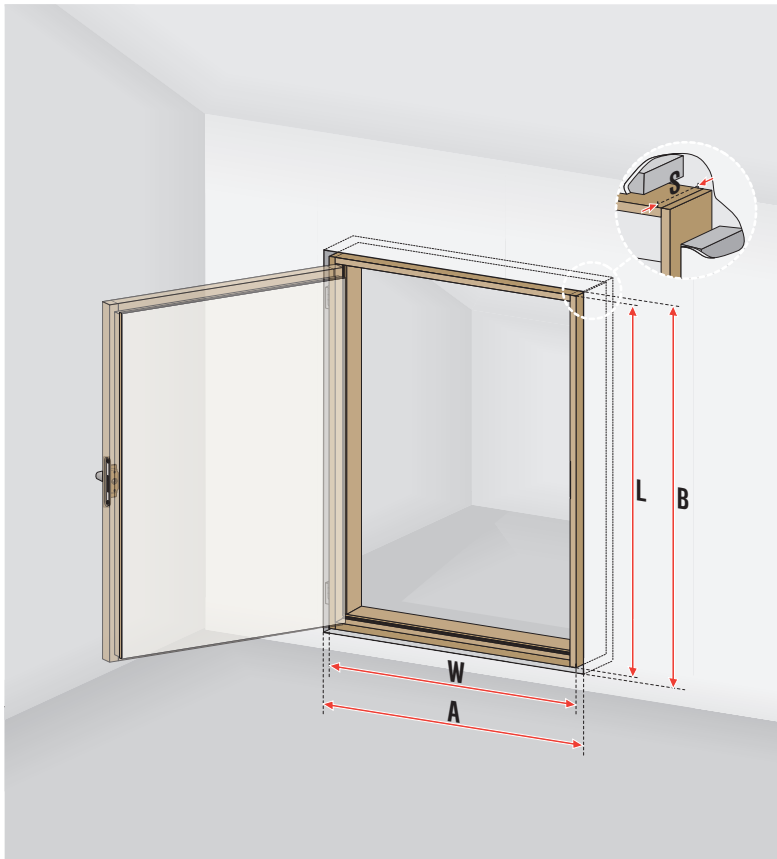
Technical specification:
fire-resistance EI₁/EI₂=60 minutes
heat transmission coefficient U = 0.64 W/m²K*
insulation thickness 6 cm

fully assembled, and ready for quick installation in the ceiling



3 years warranty

DWF DOOR DIAGRAM



TECHNICAL SPECIFICATION:			
	DWK	DWT	DWF 60
heat transmission coefficient U [W/m²K]	1.1*	0.6	0.64
tightness class according to EN 12207	-	4	4
fire resistant	-	-	E ₁ /E ₂ 45
insulation thickness [cm]	3	6	6
sash thickness[cm]	3.6	6.6	6.6

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

DWF doors are available only in sizes shown above.

ARCHITRAVE LININGS LXL-P, LXL-W

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 in white (LXL-W) 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										
	LWS Smart	LWK Komfort	LWL Extra	LTK Energy	LWT	LWTPH	LWF 60	LDK	LMK	LMP	LMF 60
Standard dimensions [cm]	70 x 140, 86x 144										
Non-standard dimensions [cm]	For other loft ladders sizes , cut the slats from the standard architrave lining size.										
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		86x144			70x140		86x144			
Code	62087		80AZ52			62088		80AZ54			

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



ARCHITRAVE LININGS LXL-PVC, LXL-PVC SL

ARCHITRAVE LININGS LXL-PVC	Available for loft ladders										
	LWS Smart	LWK Komfort	LWL Extra	LTK Energy	LWT	LWTPH	LWF 60	LDK	LMK	LMP	LMF 60
Standard dimensions [cm]	60 x 120, 70 x 120, 86 x 140, 86 x 144										
Non-standard dimensions [cm]	For other loft ladders sizes, cut the slats from the standard architrave lining size.										
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			86x140		86x144			
Code	62082		62083			62084		80AZ56			

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



INVISIBLE ARCHITRAVE LXL-I

The LXL-Invisible linings allow for discreet installation and concealment loft ladders in the ceiling. Thanks to the use of linings, the ladder box remains invisible. There is no need to install architrave linings masking the gaps, and the loft ladder hatch is hidden in the ceiling. The use of a discrete assembly system allows for an aesthetic and minimalistic interior finish. Installation of LXL-Invisible linings with loft ladders should be done before finishing the ceiling with plasterboards.

Invisible architrave LXL-I	Available for loft ladders			
	LWS Smart, LWK Komfort, LWL Extra, LTK Energy, LWT			
Standard dimensions [cm]	60x120cm, 70x120cm, 86x140cm			
Non-standard dimensions [cm]	For other loft ladders sizes, cut the slats from the standard architrave lining size.			
The thickness of the plasterboards to which the lining is adapted	12.5			
	LXL-I			
	60x120		70x120	86x140
Code	80AZ68		80AZ69	80AZ70



BALUSTRADE

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 structure of the balustrade and system of fixing to the loft floor with special metal holders increase its stiffness, thus improving the comfort of use. The balustrade is compatible with all sizes of loft ladders.

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



HANDRAIL LXH-A

The LXH-A handrail improves the comfort and safety of access to the loft. Mounted to the floor near the ceiling opening, makes every trip up and down the attic easier. For installation on the right and on the left side of the opening.

Code	869287
------	--------



HANDLE LXZ

The LXZ handle enables the LXW upper hatch to be closed from the loft side e.g. during maintenance work in the loft or on the roof.

Code	80AZ01
------	--------



INSTALLATION BRACKETS LXX

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 LXX	Available for loft ladders											
	LWS Smart	LWK Komfort	LWL Extra	LTK Energy	LWT	LWT PH	LWF 60	LDK	LMS	LMK	LMP	LMF 60
Installation to the ceiling max. thickness [cm]	max. 35			max. 39	max. 43			max. 35			max. 39	max. 43

Code	62085
------	-------

ASSEMBLY KIT LXK-D

The LXK-D assembly kit simplifies and improves the installation of LML loft ladders to the ceiling, on which the DRL hatch has already been installed. Installation in ceilings with a thickness of min. 38cm, maximum 50cm.

Code	80AZ41
------	--------



UNLOADING MECHANISM LXM

The unloading mechanism assists in folding and unfolding the ladder thus increasing the comfort and safety of using loft ladders. The LXM3 mechanism is designed for 3-section wooden loft ladders, and the LXM4 mechanism for 4-section loft ladders. The LXM installation possible on the right or left side of the ladder, on the opposite side to the LXH handrail.

Unloading mechanism LXM	Available for loft ladders	
	3-section	4-section
	LWS Smart, LWK Komfort, LWZ Plus, LTK Energy, LWT, LWT Passive House, LWF60	LWK Komfort, LTK Energy, LWT, LWF60
	LXM 3	LXM 4
Code	869373	869374



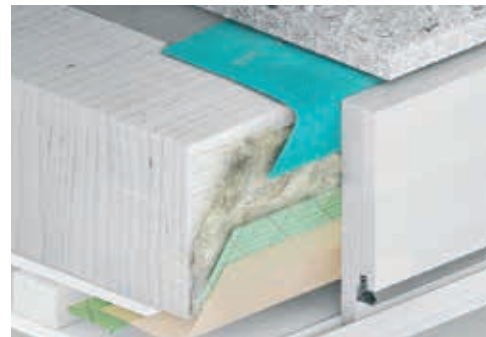
NEW!



NEW!

INSULATION KIT LXD

The LXD Insulation Kit provides the standard of tight insulation between the ladder box and ceiling opening needed in energy-efficient construction. It includes: airtight collar, insulation material (sheep wool blocks) and an air permeable collar.



Installation kit LXD	Available for loft ladders								
	LWS Smart	LWK Komfort	LWL Extra	LTK Energy	LWT	LDK	LMS	LMK	LMP
Standard dimensions [cm]	60/70x120 and 86 x 140/144								
Non-standard dimensions	For ladders smaller than 86x140 cm the standard size of the kit has to be adapted								
Commercial sizes LXD	60x120	70x120	86x140	86x144					
Code	80AZ13	80AZ14	80AZ15	80AZ61					

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 thick ceilings, 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 (see LXW, page 57).



Box extension LXN	Available for loft ladders														
	LWS Smart	LWK Komfort	LWZ Plus	LWL Extra	LTK Energy	LWT	LWT PH	LWF 60	LDK	LMK	LML	LMP	LMF 60	LMF	LST
Height of the box extension frame [cm]	10														
Max. height of non-standard box extension [cm]	20							16		20					

Box extension LXN RF for LMF (120)		Box extension LXN R (for LML)										Box extension LXN (for LMP, LMF60)			
Commercial sizes of LXW [cm]	60x120	Commercial sizes [cm]	51x80	70x80	60x120	60x130	70x120	70x130	70x140	86x130	92x130	Commercial sizes of LXW [cm]	60x144	70x144	86x144
Code	869286	Code	869L00	869L32	869L01	869L02	869L11	869L12	869L13	869L96	862399	Code	862334	862335	862336

Box extension LXN (for other loft ladders)																			
Commercial sizes of LXW [cm]	50x80	55x100	55x111	60x90	60x94	60x100	60x111	60x120	60x130	60x140	70x80	70x94	70x100	70x111	70x120	70x130	70x140	80x120	86x130
Code	862300	862320	862321	862322	862307	862306	862304	862301	862302	862303	862332	862317	862316	862314	862311	862312	862313	862393	862396

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.

UPPER HATCH LXW

The LXW Upper Hatch prevents attic dust from accumulating on the hatch and steps of the closed ladder. It improves the overall insulating parameters and airtightness 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 an additional LXZ handle.



Upper hatch LXW	Available for loft ladders														
	LWS Smart	LWK Komfort	LWZ Plus	LWL Extra	LTK Energy	LWT	LWT PH	LWF 60	LMK	LML	LMP	LMF 60	LMF	LST	
Max. thickness of the ceiling where the upper hatch can be installed [cm]	31 or after standard box extension installation 41. For 4 section ladders the use of the box extension is a must.		31 or after standard upper hatch installation 41.			35 or after standard box extension installation 45. With 4-section loft ladders extension box must be applied.	39 or after standard box extension installation 49. With 4-section loft ladders extension box must be applied.	39 or after standard box extension installation 49.	31 or after standard box extension installation 41.	31 or after standard box extension installation	48 or after standard box extension installation 58.	35 or after standard box extension installation 45.	39 or after standard box extension installation 49.	33 or after standard box extension installation 43.	41, the box extension installation is a must
Upper hatch box height [cm]	20														

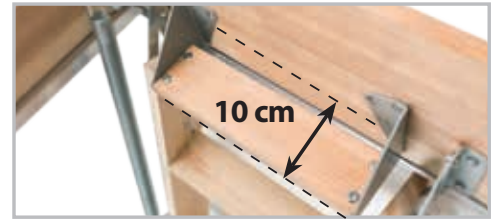
Upper hatch LXW RF for LMF (120)		Upper hatch LXW R (for LML)										Upper hatch LXW (for LMP, LMF60)			
Commercial sizes of LXW [cm]	60x120	Commercial sizes of LXW [cm]	51x80	70x80	60x120	60x130	70x120	70x130	70x140	86x130	92x130	Commercial sizes of LXW [cm]	60x144	70x144	86x144
Code	869285	Code	869K00	869K32	869K01	869K02	869K11	869K12	869K13	869K96	862299	Code	862234	862235	862236

Upper hatch LXW (for other loft ladders)																			
Commercial sizes of LXW [cm]	50x80	55x100	55x111	60x90	60x94	60x100	60x111	60x120	60x130	60x140	70x80	70x94	70x100	70x111	70x120	70x130	70x140	80x120	86x130
Code	862200	862220	862221	862222	862207	862206	862204	862201	862202	862203	862232	862217	862216	862214	862211	862212	862213	862293	862296

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.

ADDITIONAL TREAD LXT

An additional tread makes climbing the ladder easier and increases comfort and safety when accessing the loft space. Made of wood, it is installed between the final tread and loft floor and is particularly recommended for use in situations where the upper hatch is installed on the ladder box or where ladders are installed in a thick ceiling.



Additional tread LXT	Available for loft ladders					
	LWS/LWK Komfort (size 55x111cm)	LWL Extra (size 60x...cm)	LWS/LWK Komfort (except size 55x111cm)	LWL Extra (except size 60x...cm)	LWZ Plus	LMK
	LXT280			LXT300		
Loft ladder's tread length [cm]	30			34		
Code	62058			62059		

STILE ENDS LXS-W, LXS-M

The LXS-W, LXS-M 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 against scratches by applying TPE cap. The LXS-W & LXS-M stile ends are compatible with all 3-section wooden and metal loft ladders.

Stile ends	LXS-W	LXS-M
Code	66135	66136



HANDRAIL LXH

The LXH Metal Handrail makes climbing the ladder easier and increases user's safety and comfort. It is mounted onto upper ladder section.



Handrail LXH	Available for loft ladders		
	LWS Smart, LWK Komfort, LWZ Plus, LTK Energy, LWT, LWT PH, LWF 60, LMK, LMF 60		LDK
Handrail screwed to the ladder's upper section	LXH50/13	LXH75/13	LXH75/16
Code	80AZ24	80AZ18	62065

*LXH 50/13 handrails are installed with ladders' boxes lengths up to 100cm, while for boxes lengths higher than 100cm, the LXH75/13 handrails are available. 1 - For LMF 60 loft ladders the handrail is compatible only with versions with heights up to 280 and 305cm.

SET OF SCREWS LXF

Set of screws **LXF-C** screws with dowels for a concrete ceiling, **LXF-W** for a wooden ceiling.

Montážne skrutky LXF	Available for wooden loft ladders	
	LXF-C	LXF-W
Type of the ceiling	concrete ceiling	wooden ceiling
Code	80XC41	80XC42

LXF-C



LXF-W



AVAILABLE ADDITIONAL ACCESSORIES

	LWK Komfort	LWZ Plus	LWL Extra	LTK Energy	LWT	LWT PH	LWF 60	LWF SL 60	LDK	LMK	LML	LMP	LMF 60	LMF	LST	LSF
LXB-P balustrade	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
LXH-A handrail	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
LXK installation brackets	✓	S	✓	✓	✓	✓	✓	✓	✓	✓	S	✓	✓	S	S	S
LXL architrave lining (wooden)	✓	—	✓	✓	✓	✓	✓	✓	✓	✓	—	✓	✓	—	—	—
LXL-PVC architrave lining (plastic)	✓	—	✓	✓	✓	✓	✓	—	✓	✓	—	✓	✓	—	—	—
LXL-I architrave	✓	—	✓	✓	✓	—	—	—	—	—	—	—	—	—	—	—
LXH handrail	S+	S+	S+	S+	S+	S+	S+	S+	S+	✓S+	—	—	S+	—	—	—
LXN box extension	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	—
LXT additional tread	✓	✓	✓	—	—	—	—	—	—	✓	—	—	—	—	—	—
LXW upper hatch	✓*	✓	✓	✓*	✓*	✓	✓*	✓*	—	✓	✓	✓	✓	✓	✓*	—
LXS stile ends (only for 3 sections ladders)	S	S	S	S	S	S	S	S	—	—	—	—	—	—	—	—
LXM unloading mechanism	✓	✓	S	✓	✓	✓	✓	✓	—	✓	—	—	✓	—	—	—
LXK-D assembly kit	—	—	—	—	—	—	—	—	—	—	✓	—	—	—	—	—
LXD insulation kit	✓	—	✓	✓	✓	—	—	—	✓	✓	—	✓	—	—	—	—

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

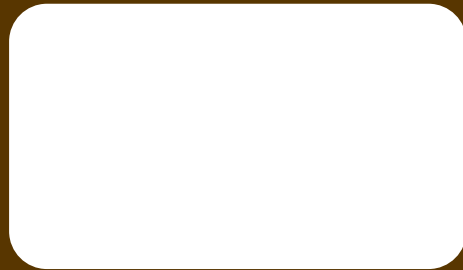
** In the LMF60 loft ladders, the additional LXH handrail is compatible only with the loft ladders version heights up to 280 and 305cm

[✓] - compatible

[—] - not compatible

[S] - factory fitted accessory as standard

[S+] - factory fitted accessory as standard with the option of installing a second one



FAKRO®

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

FAKRO reserves the right to change specifications and technical parameters of products without prior notice.