

COMPLETE GUIDE TO LOFT LADDERS

2021



Wide range
of safe and comfortable
loft ladders

30 YEARS
HOME SOLUTIONS

FAKRO

WOODEN FOLDING SECTION LOFT LADDERS

LWK Komfort



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.

LWZ Plus



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.






LWL Extra









NEW!











LWL Extra wooden loft ladders is a 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.

* manufacturer's internal research

-  stile ends (only in 3-section version)
-  white hatch
-  peripheral seal
-  handrails
-  non-slip treads
-  easy installation
-  possibility of installing additional accessories

-  stile ends
-  white hatch
-  integrated architrave lining
-  peripheral seal
-  handrails
-  non-slip treads
-  system of quick installation in the ceiling
-  possibility of installing additional accessories

-  stile ends
-  white hatch
-  two seals
-  two handrails
-  non-slip treads
-  ladder unloading mechanism
-  easy installation
-  possibility of installing additional accessories

LTK Energy



Available in **MINI** sizes (4-segment)

The **LTK Energy** is a 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.

LWT/LWT Passive House



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.

LWF 60

NEW!



Available in **MINI** sizes (4-segment)

The **LWF60**, a new generation of fire resistant loft ladders with 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 EI₁60/EI₂60, classification according to EN 13501.

* manufacturer's internal research

stile ends (only in 3-section version)

white hatch

two seals

handrails

non-slip treads

easy installation

possibility of installing additional accessories

stile ends (only in 3-section version)

white hatch

three seals

handrails

non-slip treads

easy installation

PASSIVE HOUSE Insulation kit

possibility of installing additional accessories

stile ends (only in 3-section version)

fire resistant hatch on one side

three seals

handrails

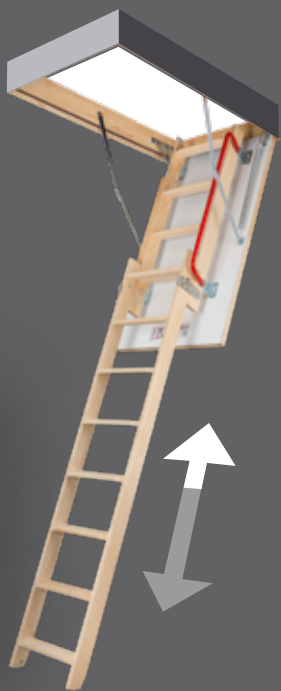
non-slip treads

possibility of installing additional accessories

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

SLIDING SECTION LOFT LADDERS

LDK



The **LDK** loft ladder is a 2-section, sliding loft ladder. It is similar in style to folding section ladders, the main difference being that the bottom section simply slides up into the loft, eliminating the need for swing space.

METAL FOLDING SECTION LOFT LADDERS

LMS/LMK



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

Unlike the **LMS** the **LMK** loft ladder has a white hatch and red handrail. The handrail is fixed to the ladder brackets, making its use much easier.

LML_{Lux}



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



white hatch



peripheral seal



handrail



non-slip treads



possibility of installing additional accessories



stile ends



beige hatch - LMS



white hatch - LMK



peripheral seal



handrail - LMK



non-slip treads



possibility of installing additional accessories



telescopic stile ends



white hatch



integrated architrave lining



peripheral seal



ladder unloading mechanism built in handrail



non-slip treads



system of quick installation in the ceiling



possibility of installing additional accessories

3 years WARRANTY



fully assembled, and ready for quick installation in the ceiling

LMP



- MAX 200 kg
- STANDARD EN 14975
- U=1.1 HATCH W/m²K

The **LMP** a 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.

LMF60

NEW!



- EN 13501-2 EI, 60
- MAX 200 kg
- STANDARD EN * 14975
- U=0.64 LOFT LADDER W/m²K

The **LMF60** 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.

LMF



- EN 13501-2 EI, 120
- MAX 200 kg
- STANDARD EN 14975
- U=0.79 LOFT LADDER 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 fire from spreading to the upper or lower fire free storey for **120 minutes**.

*manufacturer's internal research

*manufacturer's internal research

- stile ends
- white hatch
- peripheral seal
- ladder unloading mechanism built in handrail
- non-slip treads
- possibility of installing additional accessories
- 366 cm for high rooms

- stile ends
- one - sidedly fire-resistant hatch
- peripheral seal x3
- handrail (in loft ladders in version 280 and 305cm)
- ladder unloading mechanism built in handrail (in version 360cm in height).
- non-slip treads
- possibility of installing additional accessories
- 360 cm for high rooms

- telescopic stile ends
- fire-resistant hatch on both sides
- integrated architrave lining
- peripheral seal x2
- ladder unloading mechanism built in handrail
- non-slip treads
- possibility of installing additional accessories
- system of quick installation in the ceiling

SCISSORS LOFT LADDERS

LST



The **LST** scissoring 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.

LSZ



The **LSZ** loft ladder is the same as the LST except for the box, the construction of which consists of an integrated metal frame within the wooden box. It also has finishing slats and quick-fit brackets. The overall floor – ceiling ladder height can be increased to a maximum of 330cm by adding two LSS treads.

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.

- white hatch
- architrave lining
- peripheral seal
- non-slip treads
- possibility of adding or detaching tread
- possibility of installing additional accessories
- system of quick installation in the ceiling
- system of adapting the ladder length to the ceiling height

- white hatch
- integrated architrave lining
- peripheral seal
- non-slip treads
- possibility of adding or detaching tread
- possibility of installing additional accessories
- system of quick installation in the ceiling
- system of adapting the ladder length to the ceiling height

- fire-resistant hatch on one side
- integrated architrave lining
- non-slip treads
- possibility of adding or detaching tread
- possibility of installing additional accessories
- system of quick installation in the ceiling
- system of adapting the ladder length to the ceiling height

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

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

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 tightness. The door can be installed in the right or left side. They are as standard equipped with wooden architrave lining in natural colour.

DWF



DWF L-shaped combination fire-resistant doors have a 45-minute fire rating – (EN 13501-2) to protect against the spread of flame while providing access to unused space behind a wall. The white 6.6cm 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 on the right or left side. They are as standard equipped with wooden architrave lining in natural colour.



white door sash



architrave lining



peripheral seal



handle



double-sided door sash



white door sash



architrave lining



peripheral seal



handle



double-sided door sash



white, fire-resistant door sash



architrave lining



peripheral seal



handle



double-sided door sash



fully assembled, and ready for quick installation in the ceiling

MILLER STAIRCASES

MSP Pivot



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.

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 additionally fitted with the MXH-U handrail mounted on the right or on the left.

MSA Altero



The **MSA Altero** staircase with alternating tread design provides optimal level of comfort. 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. It is possible to purchase the MXH-A handrail and mount it on either side of the run of the stairs.



Ready to be painted



double coated - possible in:

- white (MSP-WW)

- black (MSP-CC)

- white, single steps natural (MSP-WWN)

- RAL colours: 1017, 3014, 3015, 5012, 5022, 6019, 6026, 7006, 7016 (MSP RAL)



Easy height adjustment



Supplied with installation kit



Ready to be painted



Additional accessories can be installed



Easy height adjustment



Supplied with installation kit



Ready to be painted



Additional accessories can be installed



Easy height adjustment



Supplied with installation kit



DIY installation

MSW WINDER TO MSS STAIRCASE

MSS Superior



The **MSS Superior** is the 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. It is possible to purchase the MXH-S handrail and mount it on either side of the stairs.

MSW-L, MSW-R Winder



The **MSW Winder** (left or right) to be used in conjunction with the 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. Additionally, the application of the MSW winder to the MSS staircase increases its usable range up to the floor height of 3.57m. It is also possible to purchase the MXH-S handrail and mount it on either side of the stairs.



Ready to be painted



Additional accessories can be installed



Easy height adjustment



Supplied with installation kit



Ready to be painted



Additional accessories can be installed



Easy height adjustment



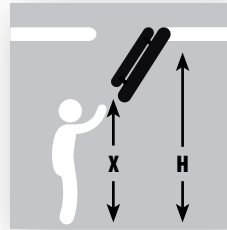
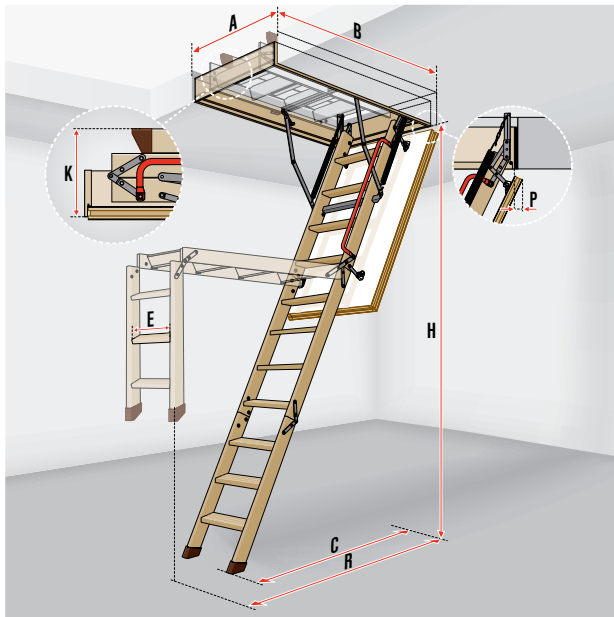
Supplied with installation kit



DIY installation

WOODEN FOLDING SECTION LOFT LADDER DIAGRAM

LWS Smart / LWK Komfort / LWZ Plus / LWL Extra



i The ladder can be equipped with the LXM ladder unloading mechanism (page 23), so that the ladder can be fully operated with a rod

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

TECHNICAL DATA		
	LWS Smart LWK Komfort LWZ Plus	LWL Extra
Maximum loading [kg]	160	
Heat transfer coefficient U [W/m ² K]	1.1	-
Heat transfer coefficient U [W/m ² K]	-	0.74*
Tightness class (EN12207)	-	4*
Insulation thickness [cm]	3	5
Hatch thickness [cm]	3.6	5.6
Box height [cm]	14	
Tread width [cm]	8	
Maximum room height [cm]	280/305	

*Manufacturer's internal calculations

LOFT LADDER	LWS Smart			LWK Komfort																		
	AxB	60x120	70x120	55x111	60x94	60x100	60x111	60x120	60x130	70x94	70x100	70x111	70x120	70x130	70x140	80x120	60x130	60x140	70x130	70x140		
Ceiling opening dimensions [cm]				280																		
Room height [cm]	H	280			305																	
Minimum room height* [cm]	H _{min.}	232			246																	
Height to be reached to operate the ladder [cm]	i X	215			225																	
Box external dimensions [cm]		58x118.4	68x118.4	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]		54x114	64x114	49x105	54x88	54x94	54x105	54x114	54x124	64x88	64x94	64x105	64x114	64x124	64x134	74x114	54x124	54x134	64x124	64x134		
Folded ladder height [cm]	K	27		27			27			35			27			27						
Swing space [cm]	R	156			153			128			153			156			175					
Distance after ladder unfolding [cm]	C	120			113			114			113			120			135					
Hatch board retraction after opening	P	4			4																	
Number of segments		3			3			4			4			3								
Tread length [cm]	E	34			34																	
Distance between treads [cm]		25																				
Tread thickness [cm]		2																				
Code		863701	863711	863821	863807	863806	863804	863801	863802	863817	863816	863814	863811	863812	863813	863893	863851	863852	863853	863854		

LOFT LADDER LWZ Plus								
Ceiling opening dimensions [cm]	AxB	60x120	70x120	70x130	70x140	60x130	70x130	70x140
Room height [cm]	H		280			305		
Minimum room height* [cm]	H _{min.}		232			246		
Height to be reached to operate the ladder [cm]	i X		215			240		
Box external dimensions [cm]		58.8x118.8	68.8x118.8	68.8x128.8	68.8x138.8	58.8x128.8	68.8x128.8	68.8x138.8
Box external dimensions with architrave linings		62.9x122.9	72.9x122.9	72.9x132.9	72.9x142.9	62.9x132.9	72.9x132.9	72.9x142.9
Internal box dimensions [cm]		54x114	64x114	64x124	64x134	54x124	64x124	64x134
Folded ladder height [cm]	K	27						
Swing space [cm]	R		156			175		
Distance after ladder unfolding [cm]	C		120			135		
Hatch board retraction after opening	P	4						
Tread length [cm]	E	34						
Distance between treads [cm]		25						
Tread thickness [cm]		2						
Code		865701	865711	865712	865713	865751	865753	865754

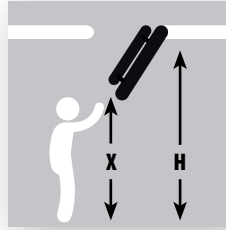
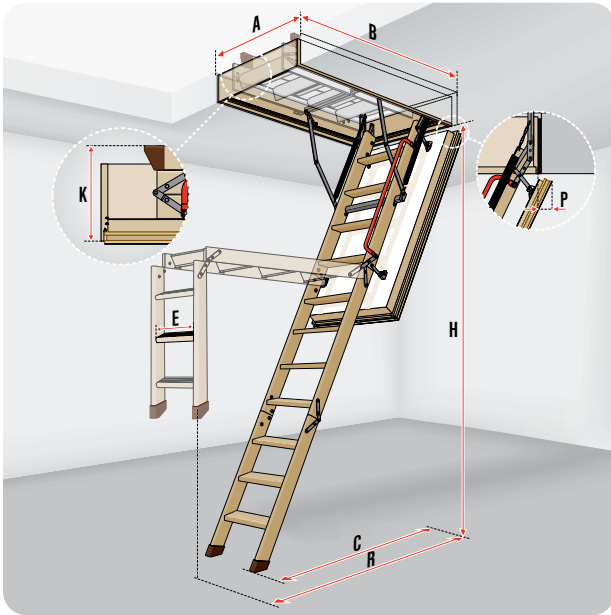
LOFT LADDER LWL Extra						
60x120	70x120	70x130	70x140	60x130	70x130	70x140
		280			305	
		260			280	
		215			225	
58x118.4	68x118.4	68x128.4	68x138.4	58x128.4	68x128.4	68x138.4
		—				
54x114	64x114	64x124	64x134	54x124	64x124	64x134
		30				
		156			175	
		120			135	
		6				
30		34		30		34
		25				
		2				
867901	867911	867912	867913	867951	867953	867954

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

Ladders are available only in sizes shown above.

WOODEN FOLDING SECTION LOFT LADDER DIAGRAM

LTK Energy / LWT / LWT Passive House / LWF 60



i The ladder can be equipped with the LXM ladder unloading mechanism (page 23), so the ladder can be fully operated with the opening rod.

TECHNICAL DATA			
	LTK Energy	LWT LWT PH	LWF ₆₀
Maximum loading [kg]	160		
Heat transfer coefficient U [W/m ² K]	0.68	0.51	0.64*
Tightness class (EN12207)	4		
Fire resistance EI ₁ /EI ₂ [min]	-	-	60
Insulation thickness [cm]	6	7.4	7.9
Hatch thickness [cm]	6.6	8	8.5
Box height [cm]	18	22	22.5
Tread width [cm]	8		
Maximum room height [cm]	280/305		

*Manufacturer's internal calculations

LOFT LADDER LTK Energy												
Ceiling opening dimensions [cm]	A x B	55x100	60x100	70x100	60x120	70x120	70x130	70x140	60x130	70x130	70x140	
Room height [cm]	H	280									305	
Minimum room height* [cm]	H _{min.}	253			235				243			
Height to be reached to operate the ladder [cm]	i X	230			210				230			
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 board retraction after opening	P							3				
Number of segments		4				3						
Tread length [cm]	E	30		34								
Distance between treads [cm]								25				
Tread thickness [cm]								2				
Code		864720	864706	864716	864701	864711	864712	864713	864751	864753	864754	

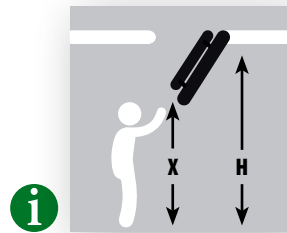
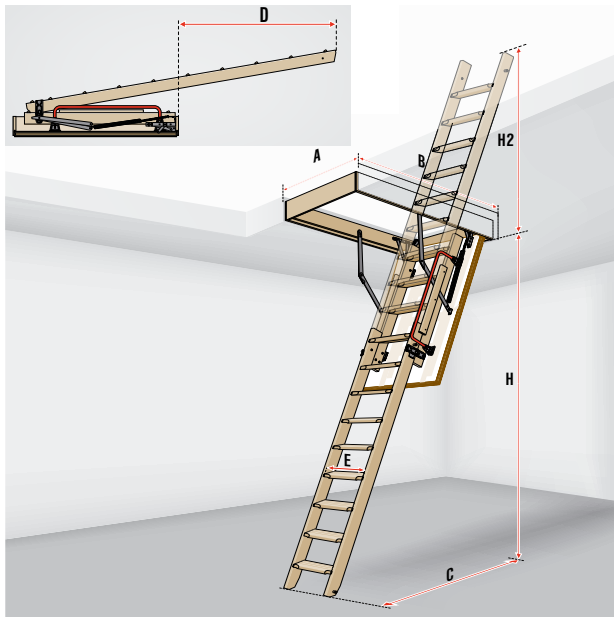
LOFT LADDER LWT										
55x100	60x100	70x100	60x120	70x120	70x130	70x140	60x130	70x130	70x140	
					280					305
253			234				242			
230			210				230			
53x98.4	58x98.4	68x98.4	58x118.4	68x118.4	68x128.4	68x138.4	58x128.4	68x128.4	68x138.4	
49x94	54x94	64x94	54x114	64x114	64x124	64x134	54x124	64x124	64x134	
43,5		36								
136		164			178					
123		130			137					
					4,5					
4			3							
30					34					
					25					
					2					
863120	863106	863116	863101	863111	863112	863113	863151	863153	863154	

LOFT LADDER LWT Passive House								
Ceiling opening dimensions [cm]	AxB	62x122	72x122	72x132	72x142	62x132	72x132	72x142
Room height [cm]	H	280					305	
Minimum room height* [cm]	H _{min.}	234		242				
Height to be reached to operate the ladder [cm]	i X	210			230			
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	36						
Swing space [cm]	R	164			178			
Distance after ladder unfolding [cm]	C	130			137			
Hatch board retraction after opening	P	4,5						
Number of segments		22						
Tread length [cm]	E	34						
Distance between treads [cm]		25						
Tread thickness [cm]		2						
Code		8665AE	8665AF	8665AG	8665AH	8665AJ	8665AK	8665AL

LOFT LADDER LWF 60										
55x100	60x100	70x100	60x120	70x120	70x130	70x140	86x130	70x130	70x140	86x130
					280					305
253			234				242			
235			210				230			
53x98	58x98	68x98	58x118	68x118	68x128	68x138	84x128	68x128	68x138	84x128
49x94	54x94	64x94	54x114	64x114	64x124	64x134	80x124	64x124	64x134	80x124
46		38								
138		164			178					
126		129			139					
					5					
					22.5					
30					34					
					25					
					2					
869G20	869G06	869G16	869G01	869G11	869G12	869G13	869G96	869G53	869G54	869G97

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

SLIDING SECTION LOFT LADDER DIAGRAM



TECHNICAL DATA	
	LDK
Maximum loading [kg]	160
Heat transfer coefficient U [W/m²K]	1.1
Insulation thickness [cm]	3
Hatch thickness [cm]	3.6
Box height [cm]	14
Tread width [cm]	8
Maximum room height [cm]	280 305

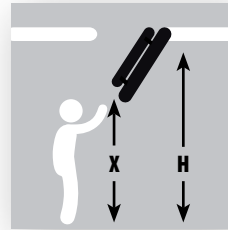
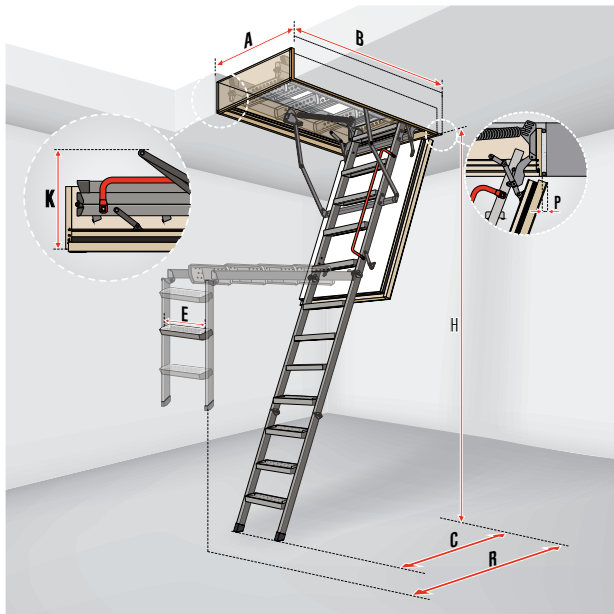
LOFT LADDER LDK									
Ceiling opening dimensions [cm]	AxB	60x120	70x120	70x130	70x140	60x120	70x120	70x130	70x140
Sliding section LDS		LDS-9				LDS-10			
Room height H [cm]	H	280				305			
Minimum room height* [cm]	H _{min.}	200							
Height to be reached to operate the ladder [cm]	X	210				230			
Box external dimensions [cm]		58x118.4	68x118.4	68x128.4	68x138.4	58x118.4	68x118.4	68x128.4	68x138.4
Internal box dimensions [cm]		54x114	64x114	64x124	64x134	54x114	64x114	64x124	64x134
Distance after ladder unfolding [cm]	C	130				140			
Maximum height of the loft required with hatch [cm]	H2	130				155			
Maximum length of the loft required with hatch door closed	D	129				155			
Max thickness of the ceiling [cm]	T					35			
Tread length [cm]	E					34			
Distance between treads [cm]						25			
Tread thickness [cm]						2			
Code LDK*		861001	861011	861012	861013	861001	861011	861012	861013
Code LDS*		861101	861101	861101	861101	861102	861102	861102	861102

LDK loft ladders are available only in sizes shown above.

*Complete set of LDK loft ladders includes top element and sliding section LDS packed separately.

**For rooms lower than the maximum standard height H it is required to match the ladder length following installation instructions.

METAL FOLDING SECTION LOFT LADDER DIAGRAM



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

TECHNICAL DATA					
	LMS LMK	LML Lux	LMP	LMF 60	LMF
Maximum loading [kg]	200				
Heat transfer coefficient U [W/m²K]	1.1		—	0.79*	
Heat transfer coefficient U [W/m²K]	—			0.64*	—
Fire resistance [min]	-			EI 60	EI 120
Insulation thickness [cm]	3			7.9	8
Hatch thickness [cm]	3.6			8.5	8.2
Box height [cm]	14	31.5	18	22.5	16
Tread width [cm]	8	13	8	8	13
Maximum room height [cm]	280 305		366	280 305 360	280 305

*Manufacturer's internal calculations

LOFT LADDER	LMS Smart			LMK Komfort						
	AxB	60x120	70x120	60x120	70x120	70x130	70x140	60x130	70x130	70x140
Ceiling opening dimensions [cm]	AxB	60x120	70x120	60x120	70x120	70x130	70x140	60x130	70x130	70x140
Room height [cm]	H	280		280				305		
Minimum room height* [cm]	H _{min.}	220		220				245		
Height to be reached to operate the ladder [cm]	X	220		220				245		
Box external dimensions [cm]		58x118.4	68x118.4	58x118.4	68x118.4	68x128.4	68x138.4	58x128.4	68x128.4	68x138.4
Internal box dimensions [cm]		54x114	64x114	54x114	64x114	64x124	64x134	54x124	64x124	64x134
Folded ladder height [cm]	K	25.5		25.5						
Swing space [cm]	R	157		157				175		
Distance after ladder unfolding [cm]	C	118.5		118.5				127		
Hatch board retraction after opening	P	-		-				-		
Tread length [cm]	E	34		34						
Distance between treads [cm]		25		25						
Code		861201	861211	861401	861411	861412	861413	861451	861453	861454

LMP	i		
	60x144	70x144	86x144
Room height [cm]	366		
Minimum room height* [cm]	300		
Height to be reached to operate the ladder [cm]	270		
Box external dimensions [cm]	58x142.2	68x142.2	84x142.2
Internal box dimensions [cm]	54x138.2	64x138.2	80x138.2
Folded ladder height [cm]	32		
Swing space [cm]	196		
Distance after ladder unfolding [cm]	145		
Hatch board retraction after opening	-		
Tread length [cm]	34		
Distance between treads [cm]	24		
Code	869334	869335	869336

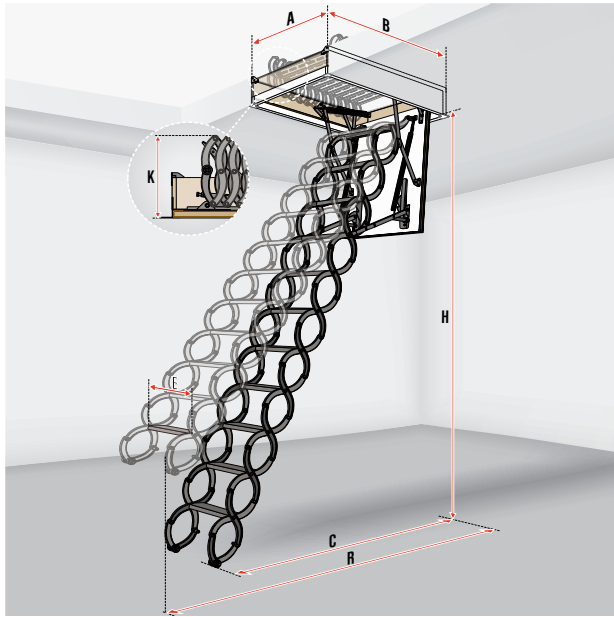
LMF 60	i											
	60x120	70x120	70x130	70x140	86x130	70x130	70x140	86x130	60x144	70x144	86x144	
Room height [cm]	280				305				360			
Minimum room height* [cm]	233				234				295			
Height to be reached to operate the ladder [cm]	210				230				265			
Box external dimensions [cm]	58x118	68x118	68x128	68x138	84x128	68x128	68x138	84x128	58x142.2	68x142.2	84x142.2	
Internal box dimensions [cm]	54x114	64x114	64x124	64x134	80x124	64x124	64x134	80x124	54x138.2	64x138.2	80x138.2	
Folded ladder height [cm]	39											
Swing space [cm]	156				167				194			
Distance after ladder unfolding [cm]	125				135				156			
Hatch board retraction after opening	5											
Tread length [cm]	34											
Distance between treads [cm]	25									24		
Code	869J01	869J11	869J12	869J13	869J96	869J53	869J54	869J97	869JAD	869JAE	869JAF	

LOFT LADDER LMF	i								
	AxB	60x120	70x120	70x130	70x140	86x130	70x130	70x140	86x130
Ceiling opening dimensions [cm]	AxB	60x120	70x120	70x130	70x140	86x130	70x130	70x140	86x130
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]		59x118	68x118	68x128	68x138	84x128	68x128	68x138	84x128
Internal box dimensions [cm]		64.7x123.7	73.7x123.7	73.7x133.7	73.7x143.7	89.7x133.7	73.7x133.7	73.7x143.7	89.7x133.7
Folded ladder height [cm]		55x114	64x114	64x124	64x134	80x124	64x124	64x134	80x124
Swing space [cm]	K			34					
Distance after ladder unfolding [cm]	R			167				178	
Hatch board retraction after opening	C			120				130	
Tread length [cm]	E			35					
Distance between treads [cm]				25					
Code		862501	862511	862512	862513	862596	862553	862554	862597

LOFT LADDER LML Lux	i											
	60x120	70x120	70x130	70x140	86x130	92x130	60x130	70x130	70x140	86x130	92x130	
Room height [cm]	280				305				360			
Minimum room height* [cm]	233				256				295			
Height to be reached to operate the ladder [cm]	205				230				265			
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	
Internal box dimensions [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	
Folded ladder height [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	
Swing space [cm]	31.5											
Distance after ladder unfolding [cm]	167				178				194			
Hatch board retraction after opening	120				130				156			
Tread length [cm]	35											
Distance between treads [cm]	25									24		
Code	862401	862411	862412	862413	862496	862498	862451	862453	862454	862497	862499	

* for rooms lower than the maximum standard height H please adjust the length of the ladder according to the assembly instructions
Ladders are available only in sizes shown above.

SCISSOR LOFT LADDER DIAGRAM



TECHNICAL DATA			
	LST	LSZ	LSF
Maximum loading [kg]	200		
Heat transfer coefficient U [W/m²K]	1.1		1.8*
Fire resistance E _f /E _f [min]	-		60
Insulation thickness [cm]	3		3
Hatch thickness [cm]	3.6		5.6
Box height [cm]	18	14	
Tread width [cm]	8		
The maximum height of the room [cm] with extra 1 or 2 treads added.	300/330		320

*Manufacturer's internal calculations

LOFT LADDER LST

	Ax B	Standard ladder length				
		50x80	60x90	60x120	70x80	70x120
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
Swing space [cm]	K	38.2				
Distance after ladder unfolding [cm]	R	150				
Hatch board retraction after opening	C	146 – 134				
Box height [cm]		18				
Tread length [cm]	E	24	30		38	
Distance between treads [cm]		24-26				
Standard number of treads [units]		11				
Compatible tread LSS		LSS-24	LSS-31	LSS-38		
Code		860402	860423	860426	860432	860436

LOFT LADDER LSZ

	Standard ladder length		
	51x80	70x80	70x120
Ceiling opening dimensions [cm]	51x80	70x80	70x120
Room height [cm]	250 – 280		
Box external dimensions [cm]	51x79.4	69x79.4	69x119.4
Box external dimensions with architrave linings	54.6x82.6	72.6x82.6	72.6x122.6
Internal box dimensions [cm]	45.7x73.7	63.7x73.7	63.7x113.7
Swing space [cm]	38.2		
Distance after ladder unfolding [cm]	150		
Hatch board retraction after opening	146 – 134		
Box height [cm]	14		
Tread length [cm]	26	38	
Distance between treads [cm]	24-26		
Standard number of treads [units]	11		
Compatible tread LSS	LSS-26	LSS-38	
Code	860502	860532	860536

	Ladder shorter by 1 tread	Standard ladder length	Ladder longer by 1 tread	Ladder longer by 2 treads
H	230-250	250-280	280-300	300-330
R	140	150	160	170
C	135-127	146-134	153-145	163-150

Tread	LSS-24	LSS-26	LSS-31	LSS-38
Loft ladder width LST/LSZ [cm]	50	51	60	70
Code	860207	860204	860205	860206

LSF LOFT LADDERS DIMENSIONS

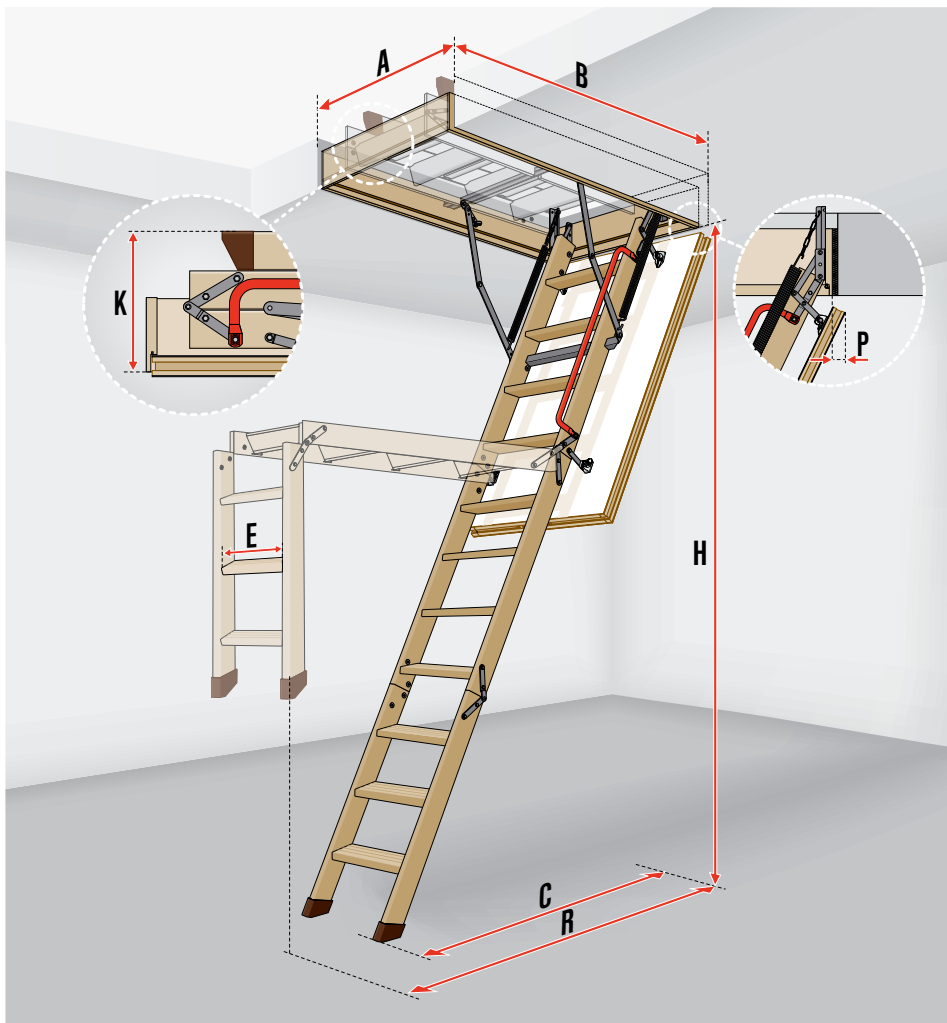
	Ax B	Standard ladder length						
		50x70	60x90	60x120	70x80	70x90	70x110	70x120
Ceiling opening dimensions [cm]	AxB	50x70	60x90	60x120	70x80	70x90	70x110	70x120
Room height [cm]	H	270 – 300						
Box external dimensions [cm]		48x68.5	58x88.5	58x118.5	68x78.5	68x88.5	68x108.5	68x118.5
Box external dimensions 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
Swing space [cm]	K	46						
Distance after ladder unfolding [cm]	R	170 – 180						
Hatch board retraction after opening	C	165 – 130						
Box height [cm]		14						
Tread length [cm]	E	30	32			40		
Distance between treads [cm]		25 – 30						
Standard number of treads [units]		10						
Compatible tread LSS		LSS-30	LSS-32	LSS-40				
Code		860101	860123	860126	860132	860133	860135	860136

	Ladder shorter by 1 tread	Standard ladder length	Ladder longer by 1 tread
H	240-270	270-300	300-320
R	165	170-180	185-210
C	100-140	165-130	120-140

Tread	LSS-30	LSS-32	LSS-40
Loft ladder width LST/LSZ [cm]	50	60	70
Code	860201	860202	860203

Ladders are available only in sizes shown above.

NON-STANDARD LWK Komfort LOFT LADDER SIZES



When ordering the LWK Komfort in non-standard sizes, the real dimensions of the ceiling opening (A & B) and the room height H must be provided. The actual size of the loft ladder (W & L) is reduced by the assembly clearance, 2cm in width and 1.6cm in length. For example, for the ceiling opening 54x94cm delivered loft ladder will feature dimensions 52x92.4cm.

When ordering the loft ladder, the space occupied by the ladder while unfolding (swing space R), after ladder unfolding (distance C) and hatch board retraction after opening (distance P) should also be taken into account.

The LWK Komfort loft ladder is equipped as standard with the hatch white on both sides, stile ends (3-section version only) and handrail (excluding loft ladders with the opening width of up to 54cm). The loft ladder box height is 14cm. In case of thicker ceilings, to ensure aesthetic appearance of the ceiling opening above the ladder box, the box extension LXN is advised to be installed (see page 19).

LOFT LADDER DIMENSIONS						
Ceiling opening width [cm]	Ceiling opening length [cm]	Room height [cm]	Swing space (measured from rear edge of the box) [cm]	Distance after ladder unfolding (measured from rear edge of the box) [cm]	Hatch board retraction after opening [cm]	Sections
A	B	H	R	C	P	
54 – 86	94 – 140	200 – 280	115-155	85-120	4	3 or 4*
	120 – 129	280 – 305	140	110-119	4	4
	130 – 140	280 – 305	155-175	120-135	4	3
	140	305 – 335	175-184	135-146	4	3

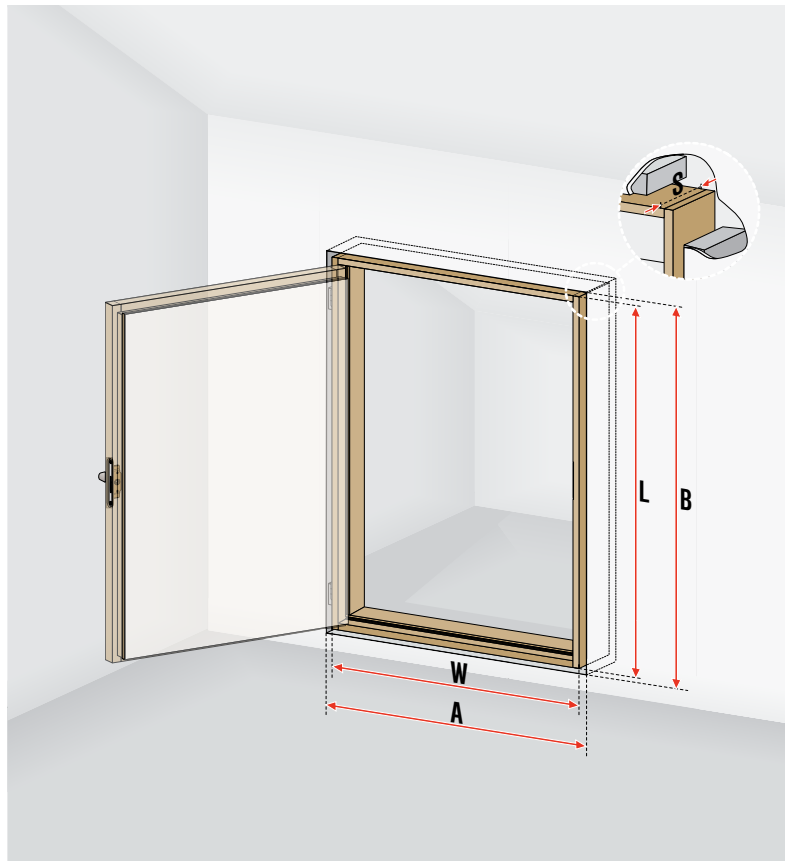
TREAD LENGTH E 3-section loft ladder

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

4-section loft ladder

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

L-SHAPED COMBINATION DOOR DIAGRAM



TECHNICAL DATA			
	DWK	DWT	DWF
Heat transfer coefficient U [W/m ² K]	1.1*	0.6	0.64
Tightness class according to EN 12207	-	4	4
Fire resistance	-	-	E ₁ /E ₂ 45
Insulation thickness [cm]	3	6	6
Door thickness [cm]	3.6	6.6	6.6

* for the middle part of the sash

L-SHAPED COMBINATION DOOR DIMENSIONS DWK								
Opening dimensions [cm]	AxB	55x80	60x80	60x100	60x110	70x90	70x100	70x110
Door dimensions WxL [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						
Code		869900	869922	869924	869925	869933	869934	869935

L-SHAPED COMBINATION DOOR DIMENSIONS DWT						
55x80	60x80	60x100	60x110	70x90	70x100	70x110
53.4x78.4	58.4x78.4	58.4x98.4	58.4x108.4	68.4x88.4	68.4x98.4	68.4x108.4
48x73	53x73	53x93	53x103	63x83	63x93	63x103
9						
2.7						
869600	869622	869624	869625	869633	869634	869635

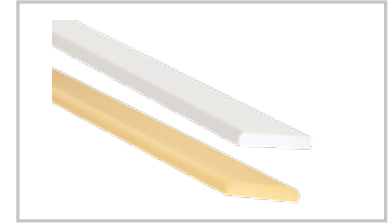
L-SHAPED COMBINATION DOOR DIMENSIONS DWF								
Opening dimensions [cm]	AxB	55x80	60x80	60x100	60x110	70x90	70x100	70x110
Door dimensions WxL [cm]	WxL	53.4x78.4	58.4x78.4	58.4x98.4	58.4x108.4	68.4x88.4	68.4x98.4	68.4x108.4
Frame internal dimensions [cm]	MxN	48x73	53x73	53x93	53x103	63x83	63x93	63x103
Frame width [cm]	S	9						
Frame thickness [cm]	Z	2.7						
Code		869800	869822	869824	869825	869833	869834	869835

DWK, DWT and DWF L-shaped combination 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	LWF60	LDK	LMS	LMK	LMP	LMF60
Standard dimensions [cm]	70 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]	3.5											
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

The PVC architrave linings are designed to cover the gaps in the ceiling which remain after the loft ladder fitting process. The LXL-PVC architrave linings are installed on the box and do not require any nails. The simple fitting process ensures a fast and aesthetically pleasing finish of the installed loft ladders. The LXL-PVC architrave is available in white*.

ARCHITRAVE LININGS LXL-PVC	Available for loft ladders											
	LWS Smart	LWK Komfort	LWL Extra	LTK Energy	LWT	LWTPH	LWF60	LDK	LMS	LMK	LMP	LMF60
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-INVISIBLE

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 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 suitable for the biggest loft ladder size 86x140 cm and 92x130 cm, so it can be applied to all types of loft ladder without cutting its horizontal bars.



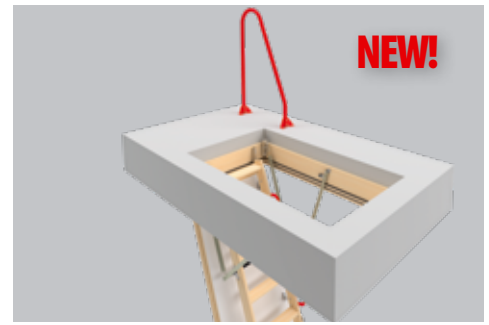
BALUSTRADE LXB-U	Available for loft ladders
Standard dimensions [cm]	86 x 140
Non-standard dimensions [cm]	for loft ladder sizes smaller than 86x140 cm, the standard size balustrade is applied

Code	80AZ04
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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
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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	LMS	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 LSZ, 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.

HANDLE LXZ

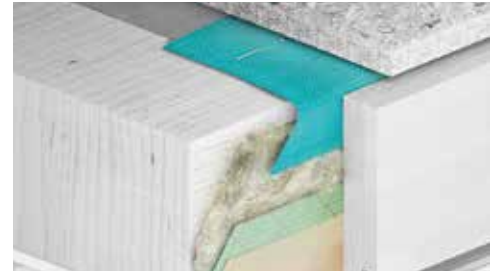
The LXZ handle enables the LXW upper hatch to be closed from the loft side e.g. during maintenance work in the loft or on the roof.



Code	80AZ01
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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 86x140/144								
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					

STILE ENDS LXS

The LXS 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 of loft ladders with wooden ladder sections (besides 4-section and LDK loft ladder).



Code	62027
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INSTALLATION BRACKETS L XK

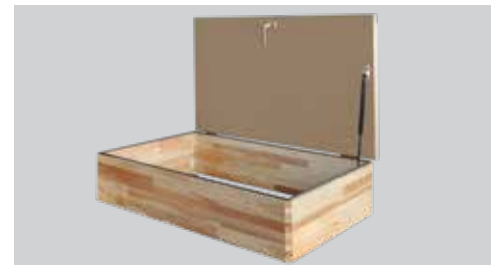
Installation brackets facilitate loft ladder installation in the ceiling. Installed in the corners of the box, they add to its overall rigidity ensuring equal lengths of diagonals. Bolts are screwed into brackets guaranteeing quick and accurate levelling of the loft ladder in the ceiling.



Installation brackets L XK	Available for loft ladders											
	LWS Smart	LWK Komfort	LWL Extra	LTK Energy	LWT	LWTPH	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											

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 left 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	LMS	LMK	LML	LMP	LMF 60	LMF	LST	LSZ
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 upper hatch installation 41.		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															

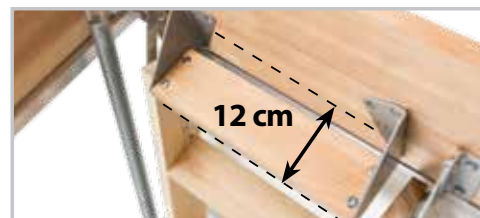
Upper hatch LXW RF for LMF (120)		Upper hatch LXW R (for LSZ, LML)										Upper hatch LXW (for LMP, LMF60)					
Commercial sizes of LXW [cm]	60x120	Commercial sizes of LXW [cm]		51x80	70x80	60x120	60x130	70x120	70x130	70x140	86x130	92x130	Commercial sizes of LXW [cm]		60x144	70x144	86x144
Code	869285	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	LMS
	LXT280			LXT300		
Loft ladder's tread length [cm]	30			34		
Code	62058			62059		

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
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HANDRAIL LXH

The metal handrail makes ascending and descending the ladder easier, increasing user's comfort and safety. The LXH is screwed to the ladder top section.

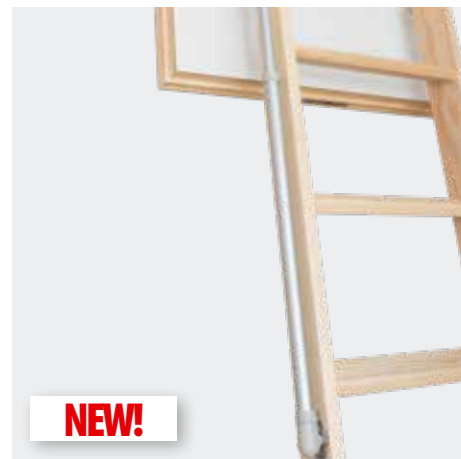


Handrail LXH	Available for loft ladders		
	LWS Smart, LWK Komfort, LWZ Plus, LTK Energy, LWT, LWT PH, LWF 60, LMS, LMK, LMF 60		LDK
Handrail screwed to the ladder's upper section	LXH50/13	LXH75/13	LXH75/16
Code	80AZ4	80AZ18	62065

*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.

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, installed in rooms with a minimum height of 260 cm. 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
Minimum room height 260cm	LXM 3	LXM 4
Code	869373	869374

AVAILABLE ADDITIONAL ACCESSORIES

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



FAKRO®



4, Ash Drive,
Naas Enterprise Park,
Naas,
Co. Kildare.
W91 VHH5

E-mail: sales@tradecraft.ie Web: www.tradecraft.ie Tel: (+353 45) 409050

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