



**LOFT**  
LADDERS  
2012

## WOODEN FOLDING SECTION LOFT LADDERS



**U=1.1**  
W/m²K



**LWS Smart  
LWK Komfort**

Satisfy the requirements of EN 14975

The **LWS/LWK** Komfort are 3 or 4- section folding wooden ladders with an insulated hatch.



**U=1.1**  
W/m²K



**LWZ**

**NEW**

The **LWZ** is 3-section folding wooden ladders with an insulated hatch. The hatch box consists of metal frame integrated with wooden box. The steel frame integrated with finishing lining slats and the system of quick installation; both simplify installation and reduce the time of setting the ladders in the ceiling.



**U=1.1**  
W/m²K



**LWL Lux**

Satisfy the requirements of EN 14975

The **LWL Lux** folding 3 section loft ladder which for greater safety and user comfort has been equipped with two handrails and special supporting mechanism for folding and unfolding the ladder.



stile ends (only in 3-section LWK)



beige hatch - LWS  
white hatch - LWK



peripheral seal



handrail - LWK



non-slip treads  
- treads set flush with ladder strings - LWS  
- treads protruding from strings - LWK



possibility of installing  
additional accessories

**3 year  
warranty**



fully assembled  
and ready for quick  
installation in the ceiling



stile ends



white hatch



peripheral seal



handrail



non-slip treads  
protruding from strings



possibility of installing  
additional accessories



finishing lining slats



system of quick installation  
in the ceiling



stile ends



white hatch



peripheral seal



handrail



non-slip treads  
protruding from strings



possibility of installing  
additional accessories



unloading mechanism

## SLIDING SECTION LOFT LADDER



**U=0.76**  
W/m²K



**LTK Thermo**

Satisfy the requirements of EN 14975

The **LTK Thermo** folding 3 section Loft Ladder is a highly insulated (**U= 0.76 W/m²K**) ladder intended for buildings with significant temperature differences between the living areas and non-habitable spaces in the loft.



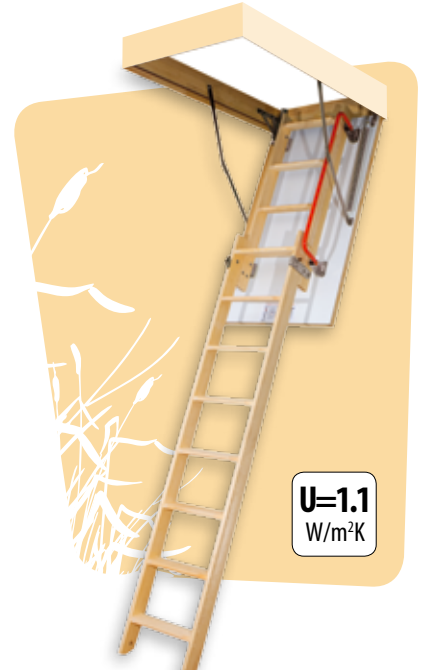
**U=0.9**  
W/m²K



**LWF**

Satisfy the requirements of EN 14975

The **LWF folding** 3 section Fire-Resistant Loft Ladder thanks to its high fire-resistant properties, **EI, 30 min (according to EN 13501-2)** is perfect for installations subject to stipulations as specified in the building regulations.



**U=1.1**  
W/m²K



**LDK**

Satisfy the requirements of EN 14975

The **LDK** Loft Ladder is a double-section loft ladder with a slidable lower section. This makes it possible to eliminate the swing space required on the landing for unfolding the ladder.



stile ends



white hatch



peripheral seal



handrail



non-slip treads  
protruding from strings



possibility of installing  
additional accessories



stile ends



fire- resistant hatch  
inner hatch in white, external in Cherry



peripheral seal



handrail



non-slip treads  
protruding from strings



possibility of installing  
additional accessories



white hatch



peripheral seal



handrail



non-slip treads  
protruding from strings



possibility of installing  
additional accessories

**3**  
year  
warranty



fully assembled  
and ready for quick  
installation in the ceiling

## FOLDING METAL SECTION LOFT LADDERS



**U=1.1**  
W/m²K

**LMS Smart LMK Komfort**

max 200 kg

Satisfy the requirements of EN 14975

The **LMS/LMK** Loft Ladders are 3-section ladders where both the insulated hatch and box are made of pine wood, whereas the ladder itself is made of metal.



**U=1.1**  
W/m²K

**LML Lux**

max 200 kg

**NEW**

The **LML** loft ladder with metal folding 3 section ladder designed to ensure the highest comfort of use. The ladder installation process is simplified by easy adjustment of ladder's length to the ceiling height.









**EI 120**

**LMF**


max 200 kg







**NEW**

The **LMF** 3 section loft ladder complies with fire-resistant standards, whilst providing safe and comfortable access to the loft spaces. The LMF ladder prevents during 120 min (**EI<sub>2</sub> = 120 min, classification according to EN 13501-2**) the smoke and fire from spreading the the upper or lower fire free story.

-  stile ends
-  beige hatch - LMS
-  white hatch - LMK
-  peripheral seal
-  non-slip treads - treads protruding from strings
-  possibility of installing additional accessories
-  handrail - LMK

**3 year warranty**

 fully assembled and ready for quick installation in the ceiling

-  telescopic stile ends
-  white hatch
-  peripheral seal
-  non-slip treads - treads protruding from strings
-  possibility of installing additional accessories
-  system of quick installation in the ceiling
-  ladder unloading mechanism, built in handrail
-  finishing lining slats

-  telescopic stile ends
-  fire-resistant white hatch
-  peripheral seal
-  non-slip treads - treads protruding from strings
-  possibility of installing additional accessories
-  system of quick installation in the ceiling
-  ladder unloading mechanism, built in handrail
-  finishing lining slats



## SCISSOR LOFT LADDERS



**U=1.1**  
W/m²K

max  
200  
kg

**LST  
LSZ**

Satisfy the requirements of EN 14975

The **LST** loft ladder (wooden box with finishing slats), the **LSZ** (metal frame with finishing slats, integrated with a wooden box) are scissor loft ladders with a white insulated hatch. The scissor ladder construction helps the folded ladder to take less space allowing the ladder to be installed in smaller openings (the smallest ladder size is 50 x 80 cm).





max  
200  
kg

**LSF**

Satisfy the requirements of EN 14975

The **LSF** Fire-Resistant Loft Ladder acts as a smoke block inside the building preventing the smoke from passing to a smoke free storey, thus providing additional precious time for the fire services to arrive in the event of emergency. The Loft Ladder fire-resistance is **EI<sub>2</sub> = 60 minutes (classification according to EN 13501-2)**.

-  white hatch
-  peripheral seal
-  finishing lining slats
-  non-slip treads - treads protruding from strings
-  possibility of adding or detaching segments
-  system of adopting the ladder length to the ceiling height
-  system of quick installation in the ceiling
-  possibility of installing additional accessories

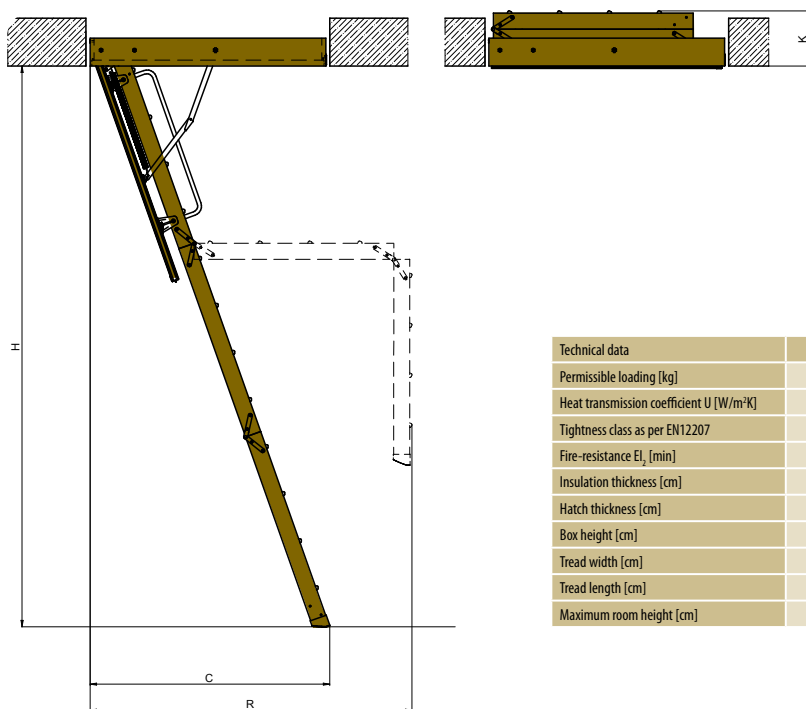
-  fire-resistant hatch
-  peripheral seal
-  finishing lining slats
-  non-slip treads - treads protruding from strings
-  possibility of adding or detaching segments
-  system of adopting the ladder length to the ceiling height
-  system of quick installation in the ceiling

3  
year  
warranty



fully assembled  
and ready for quick  
installation in the ceiling

# WOODEN FOLDING SECTION LOFT LADDERS -DIAGRAM



Technical data	LWS/LWK/LWZ/LWL	LTK	LWF
Permissible loading [kg]	160		
Heat transmission coefficient U [W/m²K]	1.1	0.76	0.9
Tightness class as per EN12207	-	4	-
Fire-resistance EI <sub>1</sub> [min]	-	-	30
Insulation thickness [cm]	3	6	3
Hatch thickness [cm]	3.6	6.6	4.2
Box height [cm]	14	22	14
Tread width [cm]	8		
Tread length [cm]	34		
Maximum room height [cm]	280/305	280	280/305

## Ladder LWS/ LWK

Ceiling opening dimension [cm]	55x111	60x94	60x100	60x111	60x120	60x130	70x94	70x100	70x111	70x120	70x130	70x140	60x130	60x140	70x130	70x140
Box external dimension [cm]	55x111	58x92.4	58x98.4	58x111	58x118.4	58x128.4	68x92.4	68x98.4	68x111	68x118.4	68x128.4	68x138.4	58x128.4	58x138.4	68x128.4	68x138.4
Room height H [cm]	280												305			
Number of ladder sections [units]	3	4	3			4			3							
Swing space R [cm]	159	138	159	162	138			159	162				179			
Distance after ladder unfolding C [cm]	108	120	108	121	120			108	121				130			
Folded ladder height K [cm]	33/34	41/42	33/34			41/42			33/34							

## Ladder LWZ

Ceiling opening dimension [cm]	60x120	70x120	70x130	70x140	60x130	70x130	70x140
Box external dimension [cm]	58.8x118.8	68.8x118.8	68.8x128.8	68.8x138.8	58.8x128.8	68.8x128.8	68.8x138.8
Room height H [cm]	280					305	
Swing space R [cm]	162					179	
Distance after ladder unfolding C [cm]	121					130	
Folded ladder height K [cm]	34						

## Ladder LWL

Ceiling opening dimension [cm]	60x120	70x120	70x130	70x140	60x130	70x130	70x140
Box external dimension [cm]	58x118	68x118	68x128	68x138	58x138	68x128	68x138
Room height H [cm]	280				305		
Swing space R [cm]	164				179		
Distance after ladder unfolding C [cm]	122				130		
Folded ladder height K [cm]	34						

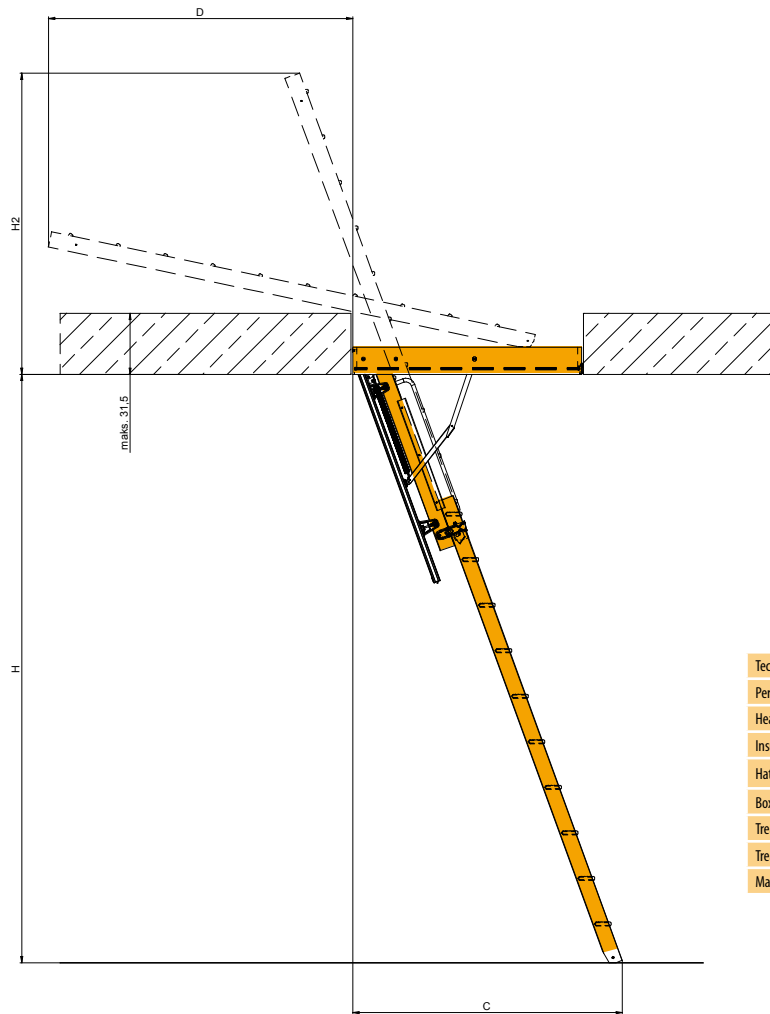
## Ladder LTK

Ceiling opening dimension [cm]	60x120	70x120	70x130	70x140
Box external dimension [cm]	58x118.4	68x118.4	68x128.4	68x138.4
Room height H [cm]	280			
Swing space R [cm]	167			
Distance after ladder unfolding C [cm]	121			
Folded ladder height K [cm]	37			

## Ladder LWF

Ceiling opening dimension [cm]	60x120	70x120	70x130	70x140	86x130	70x130	70x140	86x130
Box external dimension [cm]	58x118.4	68x118.4	68x128.4	68x138.4	84x128.4	68x128.4	68x138.4	84x128.4
Room height H [cm]	280						305	
Swing space R [cm]	172		177		194			
Distance after ladder unfolding C [cm]	140		152		163			
Folded ladder height K [cm]	35							

# SLIDING SECTION LOFT LADDER



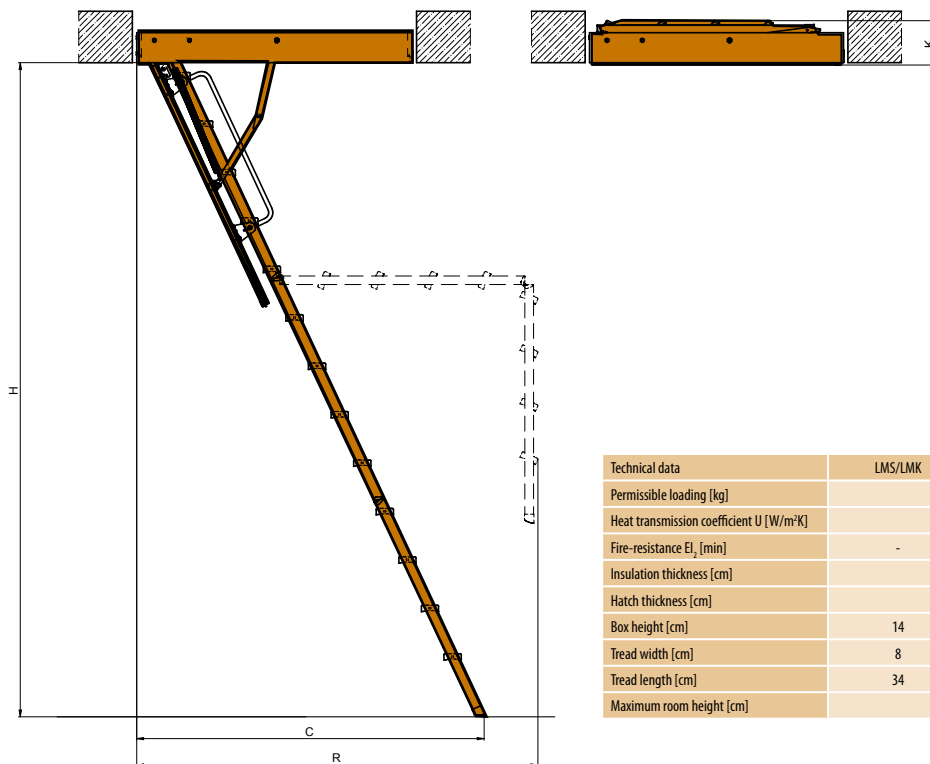
Technical data	LDK
Permissible loading [kg]	160
Heat transmission coefficient U [W/m²K]	1.1
Insulation thickness [cm]	3
Hatch thickness [cm]	3.6
Box height [cm]	14
Tread width [cm]	8
Tread length [cm]	34
Maximum room height [cm]	280/305/335

## Ladder LDK\*

Ceiling opening dimension [cm]	60x120	70x120	70x130	70x140	60x120	70x120	70x130	70x140	60x120	70x120	70x130	70x140
Box external dimension [cm]	58x118.4	68x118.4	68x128.4	68x138.4	58x118.4	68x118.4	68x128.4	68x138.4	58x118.4	68x118.4	68x128.4	68x138.4
Room height H [cm]	280				305				335			
Sliding section LDS	LDS-9				LDS-10				LDS-11			
Distance of drop C [cm]	130				140				150			
Max height of the loft required with hatch H2 [cm]	130				155				184			
Max length of the loft required with hatch door closed D [cm]	129				155				185			
Max thickness of the ceiling [cm]					31.5							

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

# FOLDING METAL SECTION LOFT LADDER



Technical data	LMS/LMK	LML	LMF
Permissible loading [kg]	200		
Heat transmission coefficient U [W/m²K]	1.1		-
Fire-resistance EI <sub>2</sub> [min]	-	-	120
Insulation thickness [cm]	3		8
Hatch thickness [cm]	3.6		8.2
Box height [cm]	14	31	16
Tread width [cm]	8	13	
Tread length [cm]	34	35	
Maximum room height [cm]	280/305		

## Ladder LMS / LMK

Ceiling opening dimension [cm]	60x120	70x120	70x130	70x140	60x130	70x130	70x140
Box external dimension [cm]	58x118.4	68x118.4	68x128.4	68x138.4	58x 128.4	68x128.4	68x138.4
Room height H [cm]	280				305		
Swing space R [cm]	157				175		
Distance after ladder unfolding C [cm]	118.5				127		
Folded ladder height K [cm]					25.5		

## Ladder LML

Ceiling opening dimension [cm]	60x120	70x120	70x130	70x140	60x130	70x130	70x140
Box external dimension [cm]	59.6x118.6	68.6x118.6	68.6x128.6	68.6x138.6	59.6x128.6	68.6x128.6	68.6x138.6
Room height H [cm]	280				305		
Swing space R [cm]	165				176		
Distance after ladder unfolding C [cm]	120				130		
Folded ladder height K [cm]	31						

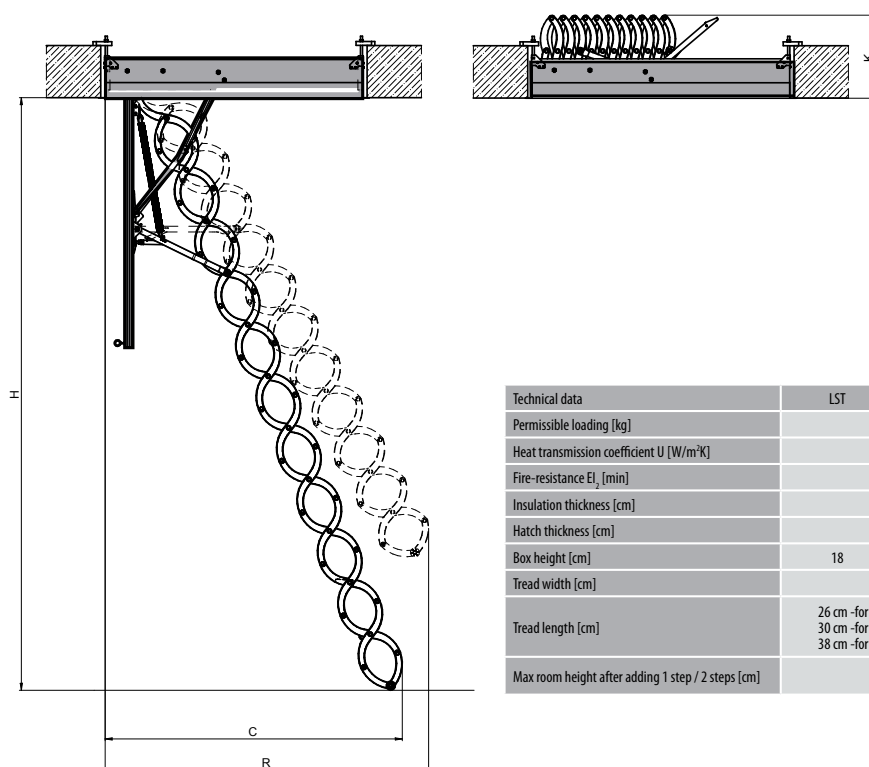
## Ladder LMF\*

Ceiling opening dimension [cm]	60x120	70x120	70x130	70x140	86x130	70x130	70x140	86x130
Box external dimension [cm]	59x118	68x118	68x128	68x138	84x128	68x128	68x138	84x128
Room height H [cm]	280					305		
Swing space R [cm]	165					176		
Distance after ladder unfolding C [cm]	120					130		
Folded ladder height K [cm]	34							

\* available in second half of 2012



# SCISSORS LOFT LADDERS



Technical data	LST	LSZ	LSF
Permissible loading [kg]	200		
Heat transmission coefficient U [W/m²K]	1.1		-
Fire-resistance EI [min]	-		60
Insulation thickness [cm]	3		8
Hatch thickness [cm]	3.6		5.4
Box height [cm]	18	14	14
Tread width [cm]	8		
Tread length [cm]	26 cm -for ladder width 50 cm 30 cm -for ladder width 60 cm 38 cm -for ladder width 70 cm		30 cm -for ladder width 50 cm 32 cm -for ladder width 60 cm 40 cm -for ladder width 70 cm
Max room height after adding 1 step / 2 steps [cm]	300/330		320

## Ladder LST/LSZ

	LST/LSZ	LST	LSZ	LST/LSZ	LST/LSZ
Ceiling opening dimension [cm]	51x80	60x90	60x120	70x80	70x120
Box external dimension [cm]	51x79.4	59x89.4	59x119.4	69x79.4	69x119.4
Room height H for standard ladder length [cm]	250-280				
Swing space R [cm]	150				
Distance after ladder unfolding C [cm]	146-134				
Folded ladder height K [cm]	38.2				

Standard ladder length -1 tread	Standard ladder length +1 tread*	Standard ladder length +2 treads*		
230	240	290	300	310
140	160	170	156	150
135-131	150-145	160	156	150
38.2				

tread	LSS-26	LSS-31	LSS-38
ladder width LST/LSZ [cm]	50	60	70

## Ladder LSF

	50x70	60x90	60x120	70x80	70x90	70x110	70x120
Ceiling opening dimension [cm]	49x68.5	59x88.5	59x118.5	69x78.5	69x88.5	69x108.5	69x118.5
Box external dimension [cm]	49x68.5	59x88.5	59x118.5	69x78.5	69x88.5	69x108.5	69x118.5
Room height H for standard ladder length [cm]	280-300						
Swing space R [cm]	175-185						
Distance after ladder unfolding C [cm]	145-120						
Folded ladder height K [cm]	40						

standard ladder length - 2 tread	standard ladder length - 1 tread	standard ladder length + 1 tread*
240-250	260-270	310-320
165-160	165-170	200-210
100-135	140-165	130-140
40		

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

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

# LOFT LADDERS OPTIONAL ACCESSORIES



## Loft balustrade LXB

Balustrade protects the ceiling opening in the attic (loft) and makes it easier to descend the ladder on the ladder.

balustrade dimension [cm] 60x120x95 70x130x95

Note: available for ladders: LWS, LWK, LWL, LTK, LWF, LDK, LMS, LMK, LST



## Hatch unloading mechanism LXM

Assists folding and unfolding the ladder and makes the use of ladder more comfortable. The hatch unloading mechanism LXM provides added assistance when using 3 section ladders at the 305cm height.

Note: Available for LWS, LWK, LWZ, LTK, LWF ladders, except for 4- section ladders.



## Box extension LXN

Made of pine wood, the box extension matches perfectly with the box of the installed ladder the same acquiring the aesthetic looks of the ceiling opening. The standard box height is 10 cm.

box extension commercial size [cm] 50 x 80 55 x 111 60 x 90 60 x 94 60 x 100 60 x 111 60 x 120 60 x 130 60 x 140 70 x 80 70 x 94 70 x 100 70 x 111 70 x 120 70 x 130 70 x 140 86x130

Note: available for ladders LWS, LWK, LWZ, LTK, LWF, LDK, LMS, LMK, LML, LMF, LST, LSZ

While ordering box extension - besides the size the ladder type has to be provided



## Upper hatch LXW

The upper hatch prevents attic dust form accumulating on the hatch and steps of the closed ladder. It improves the overall insulating parameters and tightness of the ladder on which it is installed. The height of the upper hatch box is 20cm.

upper hatch commercial size [cm] 50 x 80 55 x 111 60 x 90 60 x 94 60 x 100 60 x 111 60 x 120 60 x 130 60 x 140 70 x 80 70 x 94 70 x 100 70 x 111 70 x 120 70 x 130 70 x 140 86x130

Note: available for ladders LWS, LWK, LWZ, LTK, LWF, LMS, LMK, LML, LMF, LST, LSZ. Concerning 4 -section LWS/LWK and LST/LSZ ladders, the installation of LXN box extension should be performed prior to the LXW upper hatch installation. While ordering the LXW please provide loft ladder type.



## Stile ends LXS

Stile ends give an aesthetic looks to ladder's appearance and through appropriate shape enhance its stability.

Note: available for LWS, LWK, LWZ, LWL, LWF, LTK, except for 4- section ladders.



## Handrail LXH

The metal handrail makes climbing the ladder easier, hence increasing user's comfort and safety.

Type of ladders	LWS/LWK/LWZ LTK/LWF	LDK	LMS/LMK
Handrail	LXH 50/17 or LXH 75/17*	LXH 75/16	LXH 75/14

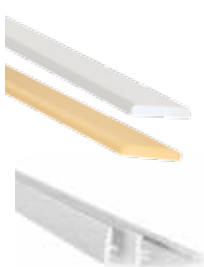
\* handrails LXH 50/17 are installed with ladders boxes of lengths up to 100cm; for boxes of lengths more than 100cm handrails LXH75/17 are available.



## Installation brackets LXX

Installation brackets facilitate Loft Ladder installation in the ceiling. Adjusted to ceilings up to 35cm thick except for LTK for which the maximum ceiling thickness is 43cm.

Note: available for ladders LWS, LWK, LWL, LTK, LWF, LDK, LMS, LMK



## Finishing linings slats LXL-P/-W, LXL-PVC

Finishing lining is designed to finish the installation of the loft ladder and to cover gaps in the ceiling which remain after the fitting process. The lining elements are made from solid pine wood (LXL lining) or PVC (lining LXL-PVC). The lining slat width is 3.5 cm.

Slats for smaller sizes have to be cut.

Lining slats	LXL	LXL PVC
Ladder dimension	70x140*	60/70x120 and 86x140*

\* Slats for smaller sizes have to be cut

Note: LXL-P/-W are available in natural colour (-P) or white (-W) for ladders LWS, LWK, LTK, LWF, LDK, LMS, LMK

Note: LXL-PVC are available in white for LWS, LWK, LTK, LDK, LMS, LMK



## The MSU Universal "Miller" staircase

The MSU Universal "Miller" staircase is made from solid spruce wood. The maximum ceiling height for use of the MSU must not exceed 290 cm. The external staircase width is 65 cm. As standard the staircase is provided without handrail. The MXH handrail can be obtained and be mounted on the left or right side of the stairs.

## The L-Shaped combination door DWK



The L-shaped door DWK is intended to be built into L-shaped walls. Superb Thermo-Insulating parameters ( $U=1.1 \text{ W/m}^2\text{K}$ ) along with high tightness keep heat-loss to a minimum. The L-shaped doors may be installed in right or left opening versions. As standard are equipped with lining slats.

L-shaped doors commercial dimension [cm]	55x80	60x80	60x100	60x110	70x90	70x100	70x110
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