

TECHNICAL SPECIFICATION

LOFT LADDER LMF 60

I. APPLICATION

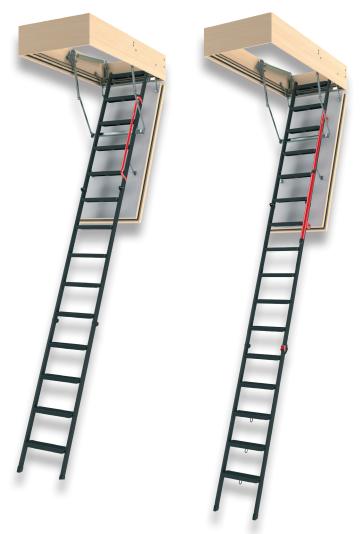
The **LMF60** is a new generation of fire-resistant metal loft ladders combining a high level of fire protection with comfortable and safe access to attic spaces. Special design of the hatch and materials used for its production allowed to achieve fire resistance class of El_160 (classification as per EN13501–2).

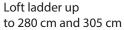
II. ST	II. STRUCTURE							
No.	Element	Description						
1	Hatch	Fire-resistant sandwich type with a thickness of 8.5 cm. Thermal insulation thickness: 7.9 cm. Finished on both sides with white HDF board. Expanding seal. No lock, unlading mechanism presses the hatch against the box, opening by pulling the plastic catch.						
2	Вох	Made of pinewood. Height: 22.5 cm. Equipped with 3 seals.						
3	Ladder	Metal. Ladder width: 38cm. Distance between treads: in version up to: 280 cm and 305 cm: 25 cm, in version up to 360 cm: 24 cm.						
4	Treads	Metal, equipped with anti-slip profile. Tread width: 8 cm. Tread length: 34 cm.						
5	Standard equipment	Stile ends. Handrail: loft ladder up to 280 cm and 305 cm – metal handrail, loft ladder up to 360 cm – telescopic handrail with unloading mechanism Control rod: loft ladder up to 280 cm and 305 cm – rod to open the hatch, loft ladder up to 360 cm – telescopic rod to open the hatch and folding up and unfolding the ladder.						

III. SIZES							
Size	Room height	Sections					
60 x 120 cm							
70 x 120 cm	280 cm 305 cm						
70 x 130 cm							
70 x 140 cm							
86 x 130 cm							
70 x 130 cm		3					
70 x 140 cm							
86 x 130 cm							
60 x 144 cm							
70 x 144 cm	360 cm						
86 x 144 cm							

IV. TECHNICAL PARAMETERS							
Description	Value	Standard					
Maximum loading	200 kg	EN 14975+A1:2010					
Loft ladder heat transfer coefficient	$U = 0.64* W/m^2 K$	PN-EN 10077-2					
Fire resistance	EI ₁ 60	EN 13501-2					

^{* -}manufacturer's internal calculations















Accessories compatibility table:

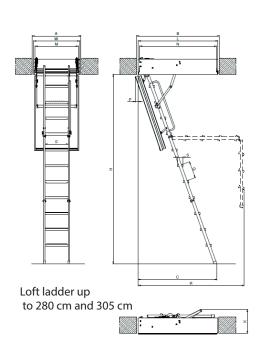


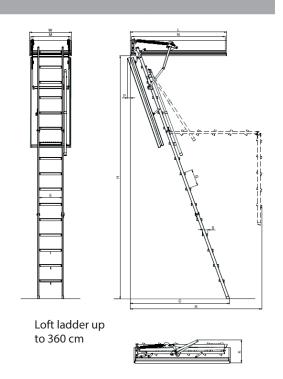
VI. ASSEMBLY INFORMATION

The loft ladder should be installed in the load-bearing structure with a fire resistance at least equal to a fire resistance of the loft ladder. The gap between the box and the ceiling must be filled with fire resistant materials in accordance with the fitting instructions and fire classification report.

The loft ladder must be installed in accordance with the included fitting instructions. The loft ladder must be adjusted to the room height by cutting the lower section. The loft ladder hatch after opening moves back by 5 cm in relation to the rear edge of the box.

VII.DETAILED DIMENSIONS





LMF 60 DIMENSIONS

Ceiling opening dimensions [cm]	AxB	60x120	70x120	70x130	70x140	86x130	70x130	70x140	86x130	60x144	70x144	86x144
Room height [cm]	Н	280			305			360				
Minimum room height* [cm]	H _{min.}	233			234			295				
Height to be reached to operate the ladder [cm]	Х		210		230			265 🚺				
Outside box dimensions [cm]	WxL	58 x 118	68 x 118	68 x 128	68x138	84x128	68x128	68 x 138	84 x 128	58x142.2	68 x 142.2	84 x 142.2
Inside box dimensions [cm]	MxN	54 x 114	64 x 114	64 x 124	64 x 134	80 x 124	64 x 124	64 x 134	80 x 124	54 x138.2	64 x138.2	80 x138.2
Folded loft ladder height [cm]	K	39										
Swing space [cm]	R			156				167			194	
Distance after ladder unfolding [cm]		125			135			156				
Hatch board movement after opening [cm]		5										
Box height [cm]							22.5					

LADDER PARAMETERS

Tread length	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.



The LMF60 loft ladder up to 360 cm in height is equipped as standard with a ladder unloading mechanism, therefore it can be fully operated by means of a control rod (opening and closing the hatch, ladder unfolding).

