

# TECHNICAL SPECIFICATION

## LOFT LADDER LWF60 / LWF60 SL

### I. APPLICATION

The LWF60 is a new generation of fire-resistant wooden loft ladders that combines 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 EI<sub>1</sub>60 (classification as per EN13501-2).

### 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, the unloading mechanism presses the hatch against the box, opening by pulling the plastic catch.
2	Box	Made of pinewood. Height: 22.5 cm. Equipped with 3 seals.
3	Ladder	Made of pinewood. Ladder width: 34 cm for sizes 55x ... cm, 38 cm for other sizes. Stringer height: 8 cm. Distance between treads: 25 cm.
4	Treads	Made of pinewood, equipped with anti-slip profile. Tread width: 8 cm. Tread thickness: 2 cm. Tread length: 30 cm for sizes 55x ... cm, 34 cm for other sizes.
5	Additional equipment	Handrail. Stile ends (for 3-section version only). Control rod for opening the hatch. Security lock (in LWF60 SL version only)



4-section version



3-section version

### III. SIZES

Size	Room height	Sections
55 x 100 cm	280 cm	4
60 x 100 cm		
70 x 100 cm		
55 x 120 cm		
60 x 120 cm		
70 x 120 cm		
70 x 130 cm		
70 x 140 cm	305 cm	3
86 x 130 cm		
55 x 130 cm		
70 x 130 cm		
70 x 140 cm		
86 x 130 cm		

### IV. TECHNICAL PARAMETERS

Description	Value	Standard
Maximum loading	160 kg	EN 14975+A1:2010
Loft ladder heat transfer coefficient	$U = 0.64 \text{ W/m}^2\text{K}$	PN-EN 10077-2
Fire resistance	EI <sub>1</sub> 60	EN 13501-2

\* -manufacturer's internal calculations



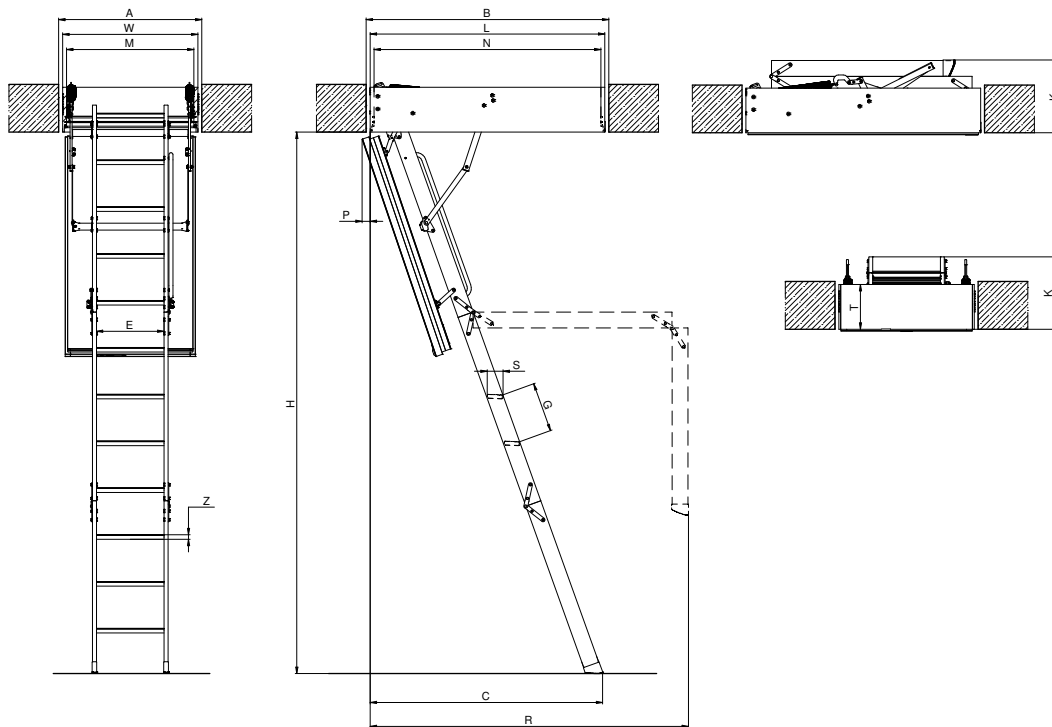
Accessories compatibility table:



## 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



### LWF 60/ LWF60 SL

Ceiling opening dimensions [cm]	AxB	55 x 100	60 x 100	70 x 100	55x120	60x120	70x120	70x130	70x140	86x130	55x130	70x130	70x140	86x130
Room height [cm]	H	280										305		
Minimum room height* [cm]	H <sub>min.</sub>	253			234							242		
Height to be reached to operate the ladder [cm]	X	235			210							230		
Outside box dimensions [cm]	WxL	53 x 98	58 x 98	68 x 98	53 x 118	58 x 118	68 x 118	68 x 128	68x138	84x128	53x128	68x128	68 x 138	84 x 128
Inside box dimensions [cm]	MxN	49 x 94	54 x 94	64 x 94	49 x 114	54 x 114	64 x 114	64 x 124	64 x 134	80 x 124	49x124	64 x 124	64 x 134	80 x 124
Folded loft ladder height [cm]	K	46			38									
Swing space [cm]	R	138			164							178		
Distance after ladder unfolding [cm]	C	126			129							139		
Hatch retrace distance after opening [cm]	P	5												
Box height [cm]		22.5												
Number of sections		4			3									

### PLADDER PARAMETERS

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

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



The LWF60 can be equipped with the LXM ladder unloading mechanism, therefore it can be fully operated by means of the control rod.

