


TECHNICAL SPECIFICATION

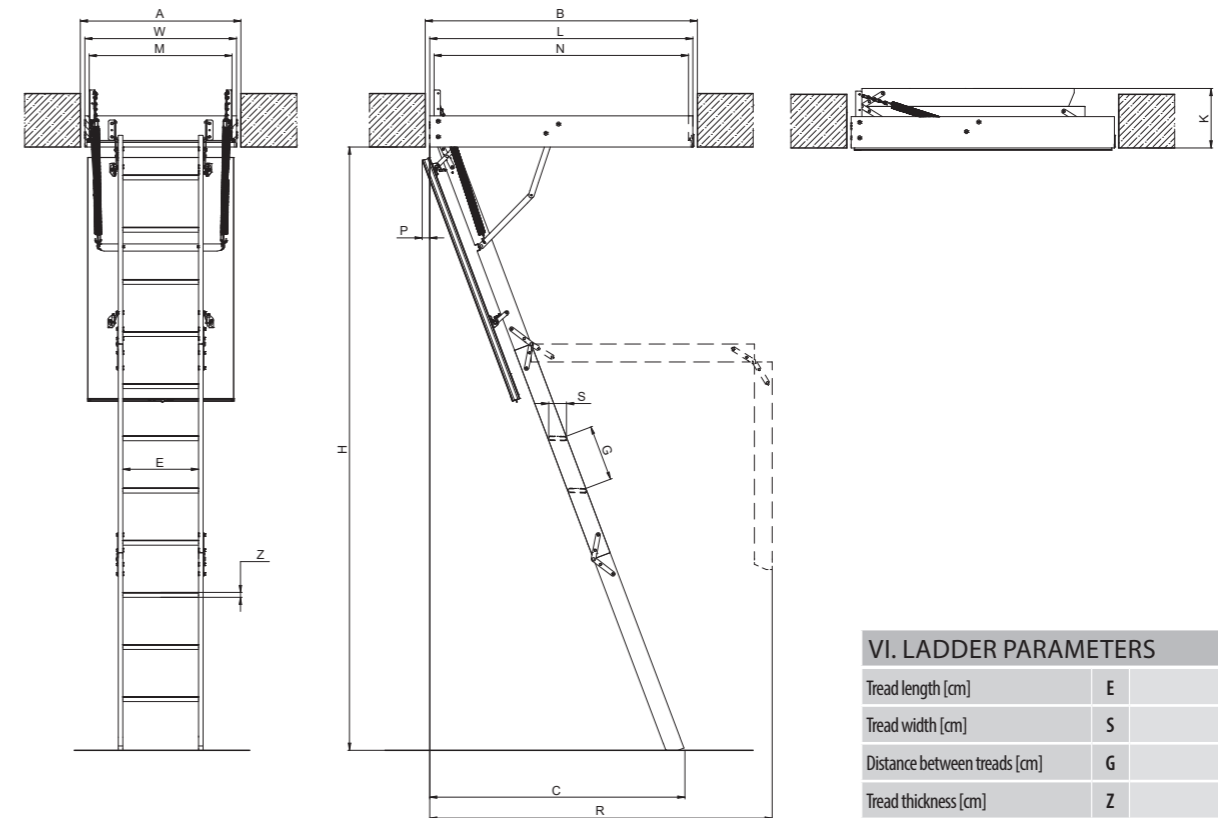
LWS Smart

FOLDING WOODEN SECTION LOFT LADDERS

LOFT LADDER TYPE	LWS Smart	
	 <p>Compliant with EN14975</p>	
I. APPLICATION		
Room height [cm]	280	
Installation	- fully assembled product - easy to install (use of special fasteners – the so called „clicks“)	
II. FEATURES		
Box	pinewood	
Hatch	thermo-insulating	
Hatch colour	beige	
Lock	+	
Unloading mechanism	-	
Ladder	pinewood	
Seal	peripheral	
Treads	anti-slip	
Handrail	-	
Finishing trims	-	
Stile ends	-	
III. TECHNICAL PARAMETERS		
Stairs heat transfer coefficient U	1.1 W/m ² K	
Thermal insulation thickness	3 cm	
Hatch thickness	3.6 cm	
Maximum loading	160 kg	
IV. OPTIONS		
Accessories	- handrail - balustrade - installation brackets - wooden trims - plastic trims - box extension - upper hatch** - insulation kit - supporting mechanism (only in 3-section version) - stile ends - additional tread	



** for 4-segment stairs use LXN box extension before upper hatch

V. LOFT LADDER DIAGRAM



VI. LADDER PARAMETERS		
Tread length [cm]	E	34
Tread width [cm]	S	8
Distance between treads [cm]	G	25
Tread thickness [cm]	Z	2

VII. TECHNICAL PARAMETERS FOR LOFT LADDERS IN PARTICULAR SIZES

Ceiling opening dimensions [cm]	AxB	60x120	70x120
			
Room height [cm]	H	280	
Min. room height [cm]	H _{min}	232	
Box external dimensions [cm]	WxL	58x118.4	68x118.4
Box internal dimensions [cm]	MxN	54x114	64x114
Height of folded ladder [cm]	K	27	
Swing space [cm]	R	156	156
Distance after ladder unfolding [cm]	C	120	120
Hatch board retraction after opening [cm]	P	4	
Box height [cm]		14	
Number of sections		3	

TECHNICAL SPECIFICATION

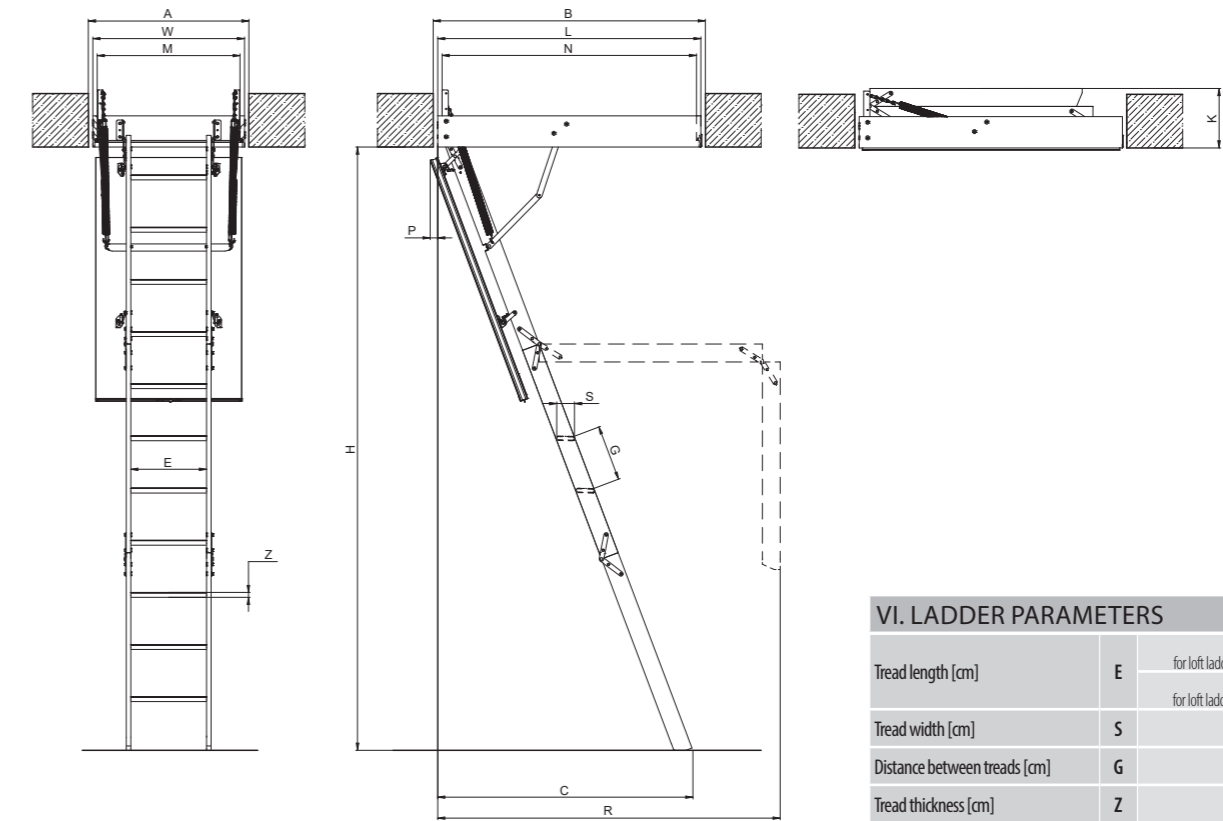
LWK Komfort

FOLDING WOODEN SECTION LOFT LADDERS

LOFT LADDER TYPE	LWK Komfort
	 <p>Compliant with EN14975</p>
I. APPLICATION	
Room height [cm]	280, 305
Installation	- fully assembled product - easy to install (use of special fasteners – the so called „clicks“)
II. FEATURES	
Box	pinewood
Hatch	thermo-insulating
Hatch colour	white
Lock	+
Unloading mechanism	-
Ladder	pinewood
Seal	peripheral
Treads	anti-slip
Handrail	x 1
Finishing trims	-
Stile ends	+ (only in 3-section version)
III. TECHNICAL PARAMETERS	
Hatch heat transfer coefficient U	1.1 W/m ² K
Thermal insulation thickness	3 cm
Hatch thickness	3.6 cm
Maximum loading	160 kg
IV. OPTIONS	
Accessories	<ul style="list-style-type: none"> - handrail - balustrade - installation brackets - wooden trims - plastic trims - box extension - upper hatch** - insulation kit - supporting mechanism (only in 3-section version) - stile ends (only in 3-section version) - additional tread

** for 4-segment stairs use LXN box extension before upper hatch

V. LOFT LADDER DIAGRAM



VI. LADDER PARAMETERS		
Tread length [cm]	E	30 for loft ladders with a width of 55 cm 34 for loft ladders with a width >55 cm
Tread width [cm]	S	8
Distance between treads [cm]	G	25
Tread thickness [cm]	Z	2



VII. TECHNICAL PARAMETERS FOR LOFT LADDERS IN PARTICULAR SIZES

Ceiling opening dimensions [cm]	AxB	55x111	60x94	60x100	60x111	60x120	60x130	70x94	70x100	70x111	70x120	70x130	70x140	60x130	60x140	70x130	70x140
Room height [cm]	H	280												305			
Min. room height [cm]	H _{min}	232	250		232		250			232						246	
Box external dimensions [cm]	WxL	53x109.4	58x92.4	58x98.4	58x109.4	58x118.4	58x128.4	68x92.4	68x98.4	68x109.4	68x118.4	68x128.4	68x138.4	58x128.4	58x138.4	68x128.4	68x138.4
Box internal dimensions [cm]	MxN	49x105	54x88	54x94	54x105	54x114	54x124	64x88	64x94	64x105	64x114	64x124	64x134	54x124	54x134	64x124	64x134
Height of folded ladder [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 board retraction after opening [cm]	P													4			
Box height [cm]														14			
Number of sections		3	4		3		4							3			

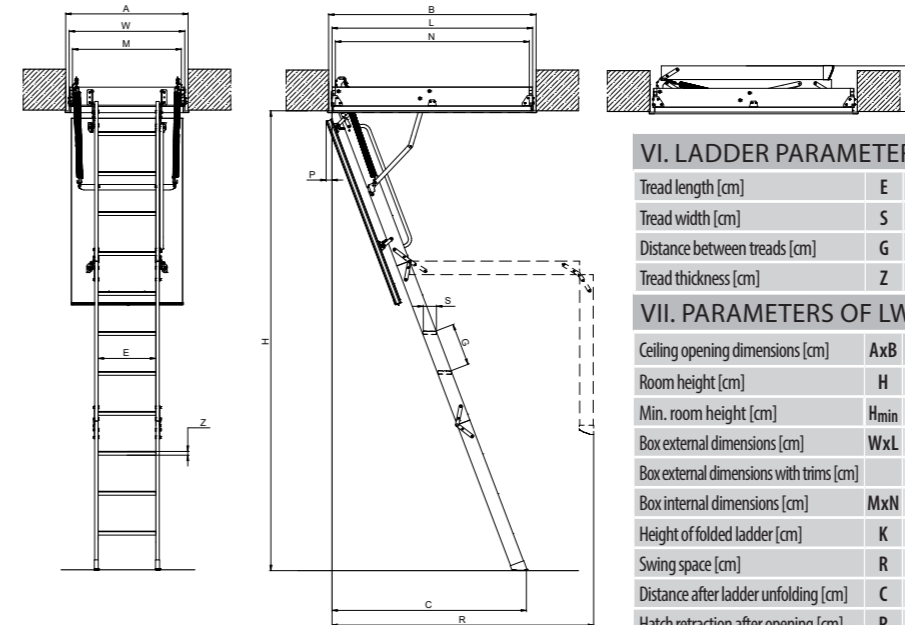
TECHNICAL SPECIFICATION

LWZ Plus, LWL Extra

FOLDING WOODEN 3-SECTION LOFT LADDER

LOFT LADDER TYPE	LWZ Plus	LWL Extra
	 Compliant with EN14975	 Compliant with EN14975
I. APPLICATION		
Room height [cm]	280, 305	
Installation	- fully assembled product - quick mounting system in the ceiling-Quick-fit brackets built into steel frame	- fully assembled product - easy to install (use of special fasteners – the so called „clicks“)
II. FEATURES		
Box	metal framework combined with pinewood box	pinewood
Hatch	thermo-insulating	
Hatch colour	white	
Lock	+	+
Unloading mechanism	-	-
Ladder supporting mechanism	-	+
Ladder	pinewood	
Seal	peripheral	
Treads	anti-slip	
Handrail	x1	x2
Finishing trims	metal integrated with a steel framework	-
Stile ends	+	
III. TECHNICAL PARAMETERS		
Heat transfer coefficient U	1.1 W/m²K (for the hatch)	0.74 W/m²K (for the stairs)
Thermal insulation thickness	3 cm	5 cm
Hatch thickness	3.6 cm	5.6 cm
Maximum loading	160 kg	
Air tightness class	npd	class 4 (the highest) as per EN 12207
IV. OPTIONS		
Accessories	- handrail - balustrade - box extension - upper hatch - additional tread - stile ends - ladder supporting mechanism	- balustrade - installation brackets - wooden trims - plastic trims - box extension - upper hatch - insulation kit - additional tread - stile ends

V. DIAGRAM OF LWZ Plus LOFT LADDER



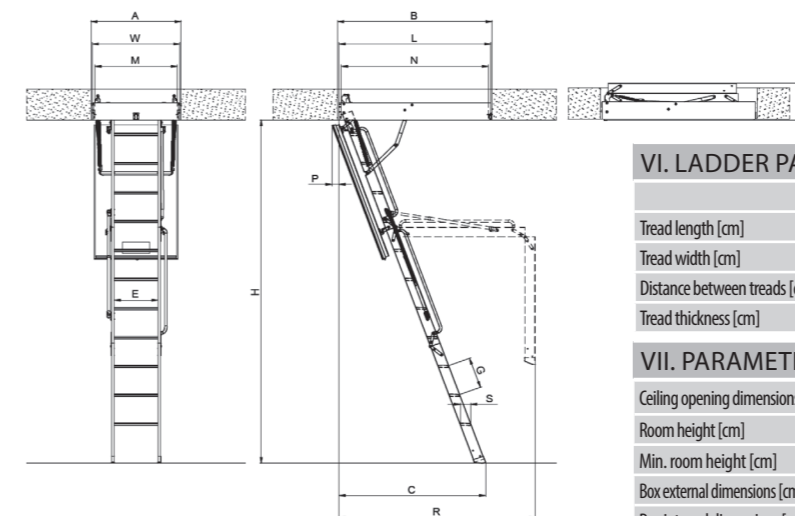
VI. LADDER PARAMETERS

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

VII. PARAMETERS OF LWZ Plus LOFT LADDER

Ceiling opening dimensions [cm]	AxB	60x120	70x120	70x130	70x140	60x130	70x130	70x140
Room height [cm]	H	280			305			
Min. room height [cm]	H _{min}	232			246			
Box external dimensions [cm]	WxL	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 trims [cm]		62.9x122.9	72.9x122.9	72.9x132.9	72.9x142.9	62.9x132.9	72.9x132.9	72.9x142.9
Box internal dimensions [cm]	MxN	54x114	64x114	64x124	64x134	54x124	64x124	64x134
Height of folded ladder [cm]	K	27						
Swing space [cm]	R	156			175			
Distance after ladder unfolding [cm]	C	120			135			
Hatch retraction after opening [cm]	P	4						
Box height [cm]		14						

V. DIAGRAM OF LWL Extra LOFT LADDER



VI. LADDER PARAMETERS

		60 x ...	70 x ...
Tread length [cm]	E	30	34
Tread width [cm]	S	8	
Distance between treads [cm]	G	25	
Tread thickness [cm]	Z	2	


VII. PARAMETERS OF LWL Extra LOFT LADDER

Ceiling opening dimensions [cm]	AxB	60x120	70x120	70x130	70x140	60x130	70x130	70x140
Room height [cm]	H	280			305			
Min. room height [cm]	H _{min}	260			280			
Box external dimensions [cm]	WxL	58x118.4	68x118.4	68x128.4	68x138.4	58x128.4	68x128.4	68x138.4
Box internal dimensions [cm]	MxN	54x114	64x114	64x124	64x134	54x124	64x124	64x134
Height of folded ladder [cm]	K	30						
Swing space [cm]	R	156			175			
Distance after ladder unfolding [cm]	C	120			135			
Hatch retraction after opening [cm]	P	6						
Box height [cm]		14						

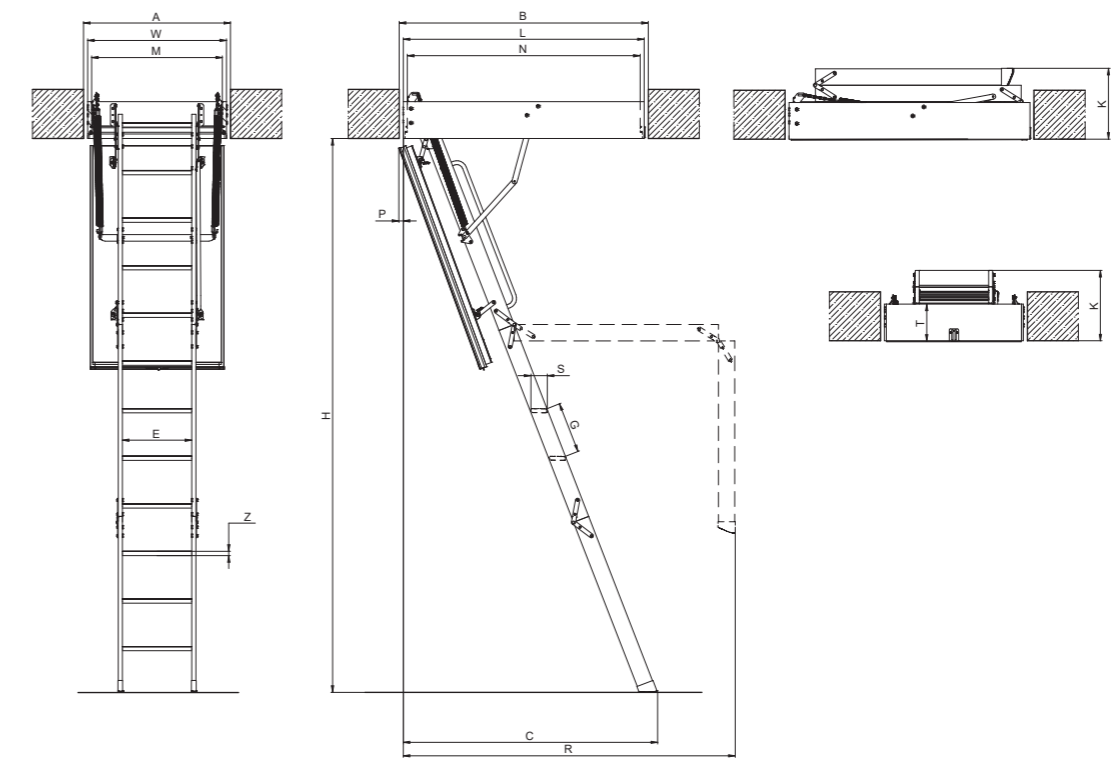
TECHNICAL SPECIFICATION

LTK Energy

FOLDING WOODEN SECTION INSULATED LOFT LADDER

LOFT LADDER TYPE	LTK Energy	
	 <p>Compliant with EN14975</p>	
I. APPLICATION		
Room height [cm]	280, 305	
Installation	- fully assembled product - easy to install (use of special fasteners – the so called „clicks“)	
II. FEATURES		
Box	pinewood	
Hatch	extra thermo-insulating	
Hatch colour	white	
Lock	+	
Unloading mechanism	-	
Ladder	pinewood	
Seal	peripheral x 2	
Treads	anti-slip	
Handrail	x1	
Finishing trims	-	
Stile ends	+ (only in 3-section version)	
III. TECHNICAL PARAMETERS		
Stairs heat transfer coefficient U	0.68 W/m²K	
Thermal insulation thickness	6 cm	
Hatch thickness	6.6 cm	
Maximum loading	160 kg	
Air tightness class	class 4 (the highest) as per EN 12207	
IV. OPTIONS		
Accessories	- handrail - balustrade - installation brackets - wooden trims - plastic trims - box extension - upper hatch** - insulation kit - ladder supporting mechanism - stile ends (only in 3-section version)	

V. DIAGRAM OF LTK Energy LOFT LADDER



VI. LADDER PARAMETERS

	55x...	60x... i 70x...
Tread length [cm]	E 30	34
Tread width [cm]	S	8
Distance between treads [cm]	G	25
Tread thickness [cm]	Z	2

VII. PARAMETERS OF LTK ENERGY LOFT LADDER




Ceiling opening dimensions [cm]	AxB	55x100	60x100	70x100	60x120	70x120	70x130	70x140	60x130	70x130	70x140	
Room height [cm]	H	280									305	
Min. room height [cm]	H _{min}	253			235				243			
Box external dimensions [cm]	WxL	53x98.4	58x98.4	68x98.4	58x118.4	68x118.4	68x128.4	68x138.4	58x128.4	68x128.4	68x138.4	
Box internal dimensions [cm]	MxN	49x94	54x94	64x94	54x114	64x114	64x124	64x134	54x124	64x124	64x134	
Height of folded ladder [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 [cm]	P	3										
Box height [cm]		18										
Number of sections		4				3						

** for 4-segment stairs use LXN box extension before upper hatch

TECHNICAL SPECIFICATION

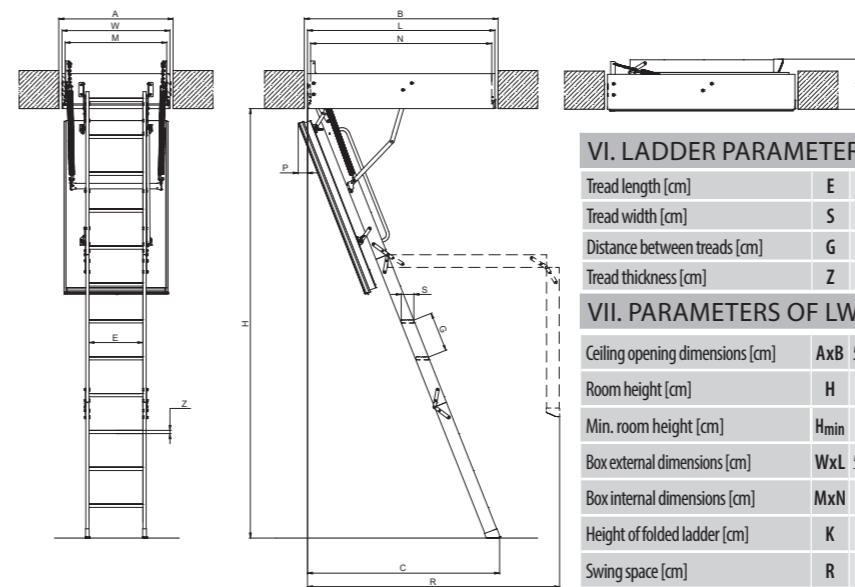
LWT

FOLDING WOODEN SECTION INSULATED LOFT LADDER

LOFT LADDER TYPE	LWT	LWT Passive House
	 <p>Compliant with EN14975</p>	  <p>Compliant with EN14975</p>
I. APPLICATION		
Room height [cm]	280, 305	280, 305
Installation	- fully assembled product - easy to install (use of special fasteners – the so called „clicks“)	- fully assembled product - easy to install (use of special fasteners – the so called „clicks“) - PASSIVE HOUSE Insulation kit
II. FEATURES		
Box	pinewood	
Hatch	extra thermo-insulating	
Hatch colour	white	
Lock	+	
Unloading mechanism	-	
Ladder	pinewood	
Seal	x 3	
Treads	anti-slip, equal to ladder's stringers	
Handrail	+	
Finishing trims	-	
Stile ends	+	
III. TECHNICAL PARAMETERS		
Stairs heat transfer coefficient U	0.51 W/m²K	0.51 W/m²K
Thermal insulation thickness	7.4 cm	7.4 cm
Hatch thickness	8 cm	8 cm
Maximum loading	160 kg	160 kg
Air tightness class	class 4 (the highest) as per EN 12207	
IV. OPTIONS		
Accessories	<ul style="list-style-type: none"> - handrail - balustrade - installation brackets - wooden trims - plastic trims - box extension - upper hatch** - insulation kit - ladder supporting mechanism - stile ends 	<ul style="list-style-type: none"> - handrail - balustrade - installation brackets - wooden trims - plastic trims - box extension - upper hatch - ladder supporting mechanism - stile ends

** for 4-segment stairs use LXN box extension before upper hatch

V. DIAGRAM OF LWT LOFT LADDER



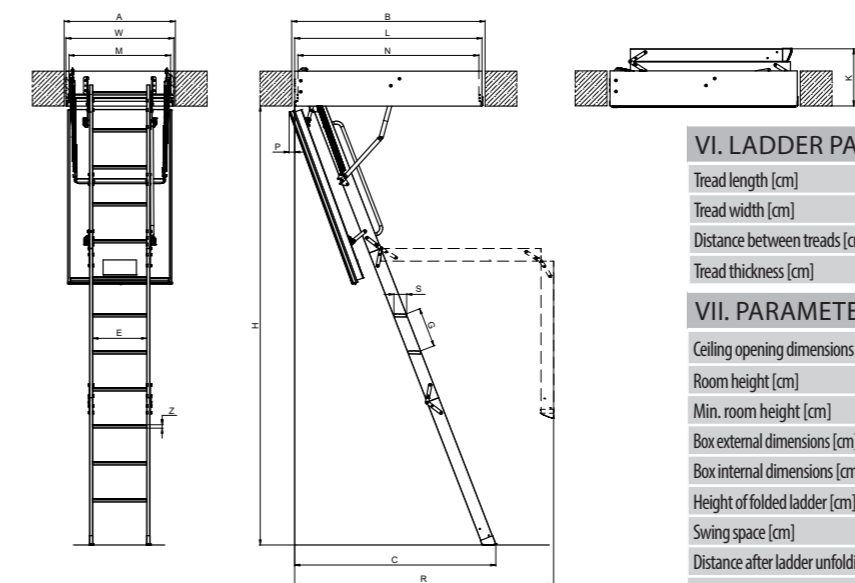
VI. LADDER PARAMETERS

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

VII. PARAMETERS OF LWT LOFT LADDER

Ceiling opening dimensions [cm]	AxB	55x100	60x100	70x100	60x120	70x120	70x130	70x140	60x130	70x130	70x140
Room height [cm]	H	280			305						
Min. room height [cm]	H _{min}	253			234			242			
Box external dimensions [cm]	WxL	53x98.4	58x98.4	68x98.4	58x118.4	68x118.4	68x128.4	68x138.4	58x128.4	68x128.4	68x138.4
Box internal dimensions [cm]	MxN	49x94	54x94	64x94	54x114	64x114	64x124	64x134	54x124	64x124	64x134
Height of folded ladder [cm]	K	43,5			36						
Swing space [cm]	R	136			164			178			
Distance after ladder unfolding [cm]	C	123			127			137			
Hatch board retraction after opening [cm]	P				4.5						
Box height [cm]					22						
Number of sections		4						3			

V. DIAGRAM OF LWT PASSIVE HOUSE LOFT LADDER



VI. LADDER PARAMETERS

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


VII. PARAMETERS OF LWT PASSIVE HOUSE LOFT LADDER

Ceiling opening dimensions [cm]	AxB	62x122	72x122	72x132	72x142	62x132	72x132	72x142
Room height [cm]	H	280			305			
Min. room height [cm]	H _{min}	234			242			
Box external dimensions [cm]	WxL	58x118.4	68x118.4	68x128.4	68x138.4	58x128.4	68x128.4	68x138.4
Box internal dimensions [cm]	MxN	54x114	64x114	64x124	64x134	54x124	64x124	64x134
Height of folded ladder [cm]	K	36						
Swing space [cm]	R	164			178			
Distance after ladder unfolding [cm]	C	130			137			
Hatch board retraction after opening [cm]	P				4.5			
Box height [cm]					22			

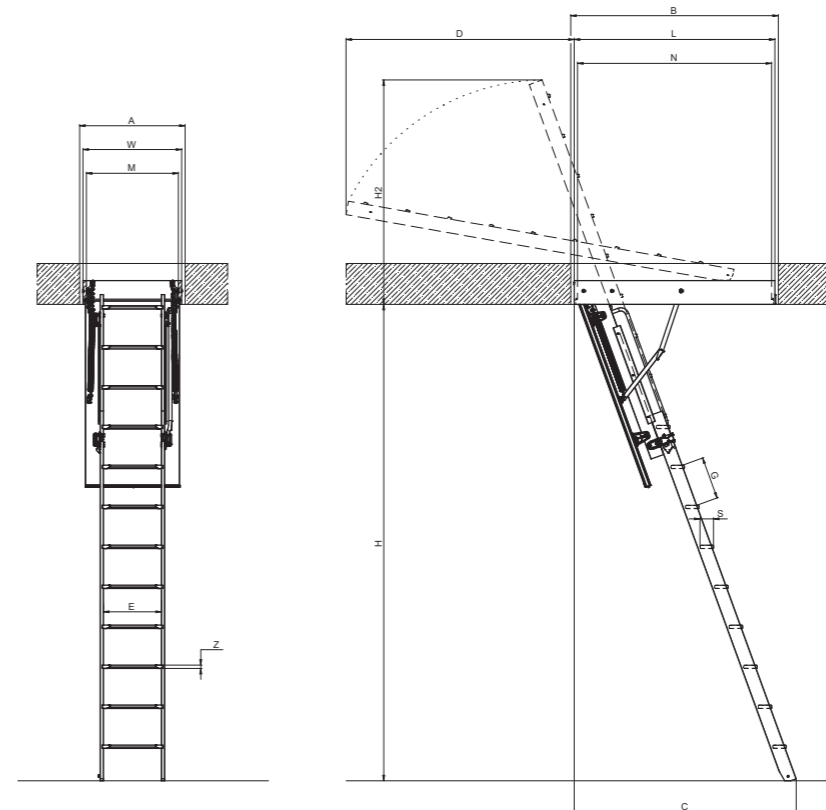
TECHNICAL SPECIFICATION

LDK

SLIDING WOODEN DOUBLE-SECTION LOFT LADDERS

LOFT LADDER TYPE	LDK
	 <p style="text-align: right;">Compliant with EN14975</p>
I. APPLICATION	
Room height [cm]	280, 305
Installation	- fully assembled product - ready for quick installation in the ceiling
II. FEATURES	
Box	pinewood
Hatch	thermo-insulating
Hatch colour	white
Lock	+
Unloading mechanism	-
Ladder	pinewood
Folding	A specially developed mechanism allows sliding of the sections in relation to each other. The longer section can be pulled down to form a stable ladder. When folding the ladder, the longer section is retracted and stored in the attic.
Seal	peripheral
Treads	anti-slip
Handrail	+
Finishing trims	-
Stile ends	-
III. TECHNICAL PARAMETERS	
Hatch heat transfer coefficient U	1.1 W/m ² K
Thermal insulation thickness	3 cm
Hatch thickness	3.6 cm
Maximum loading	160 kg
IV. OPTIONS	
Accessories	- balustrade - handrail - installation brackets - wooden trims - plastic trims - box extension - insulation kit

V. DIAGRAM OF LDK LOFT LADDER



VI. LADDER PARAMETERS

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


VII. PARAMETERS OF LDK LOFT LADDER

Ceiling opening dimensions [cm]	AxB	60x120	70x120	70x130	70x140	60x120	70x120	70x130	70x140
Sliding section LDS				LDS-9				LDS-10	
Room height [cm]	H			280				305	
Min. room height [cm]	H _{min}				200				
Box external dimensions [cm]	WxL	58x118.4	68x118.4	68x128.4	68x138.4	58x118.4	68x118.4	68x128.4	68x138.4
Box internal dimensions [cm]	MxN	54x114	64x114	64x124	64x134	54x114	64x114	64x124	64x134
Distance after ladder unfolding [cm]	C			130				140	
Maximum height in the ceiling with the ladder folded [cm]	H ₂			130				155	
Maximum length in the ceiling with the hatch closed [cm]	D			129				155	
Box height [cm]									14
Ceiling maximum thickness [cm]									35

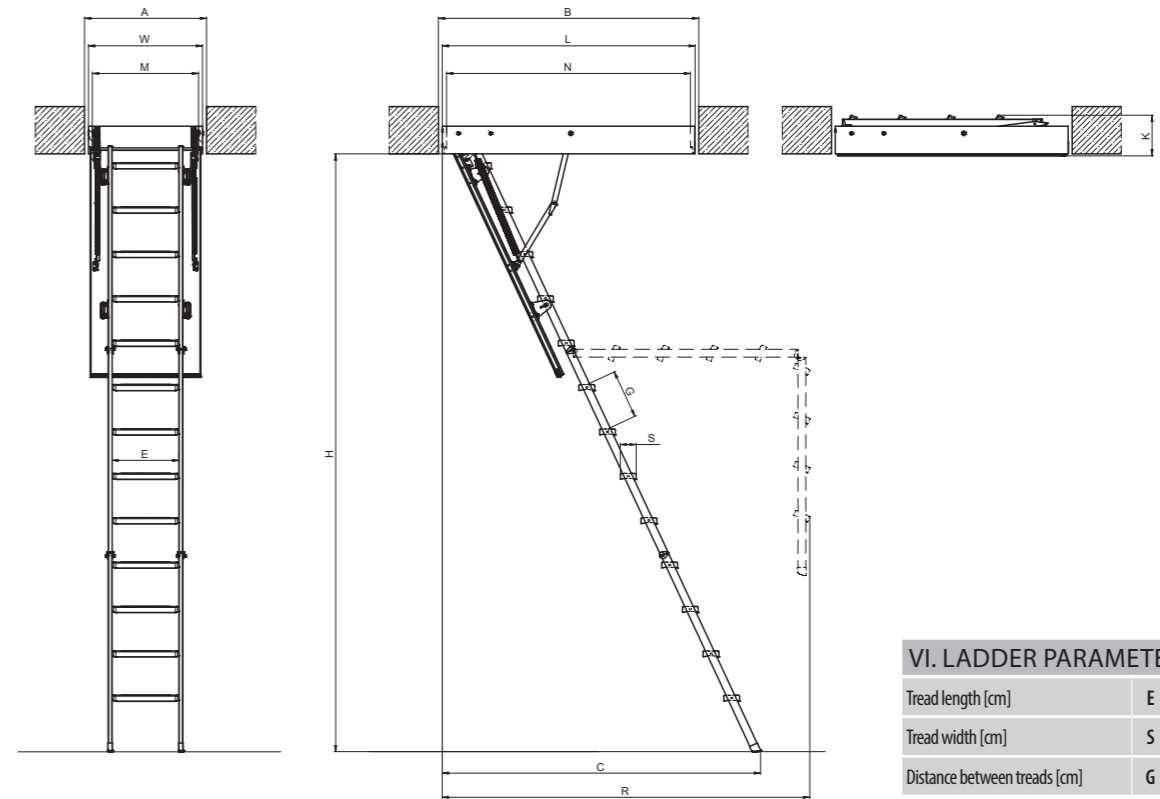
TECHNICAL SPECIFICATION

LMS Smart

FOLDING METAL SECTION LOFT LADDERS



LOFT LADDER TYPE	LMS Smart	
	 <p>Compliant with EN14975</p>	
I. APPLICATION		
Room height [cm]	280	
Installation	- fully assembled product - ready for quick installation in the ceiling	
II. FEATURES		
Box	pinewood	
Hatch	thermo-insulating	
Hatch colour	beige	
Lock	+	
Unloading mechanism	-	
Ladder	metal, powder-coated with hard wearing lacquer in grey RAL 7022	
Seal	peripheral	
Treads	metal, anti-slip	
Handrail	-	
Finishing trims	-	
Stile ends	+	
III. TECHNICAL PARAMETERS		
Hatch heat transfer coefficient U	1.1 W/m ² K	
Thermal insulation thickness	3 cm	
Hatch thickness	3.6 cm	
Maximum loading	200 kg	
IV. OPTIONS		
Accessories	- handrail - balustrade - installation brackets - wooden trims - plastic trims - box extension - upper hatch - insulation kit - additional tread	

V. DIAGRAM OF LMS SMART LOFT LADDER



VI. LADDER PARAMETERS		
Tread length [cm]	E	34
Tread width [cm]	S	8
Distance between treads [cm]	G	25


VII. PARAMETERS OF LMS SMART LOFT LADDER

Ceiling opening dimensions [cm]	AxB	60x120	70x120
			
Room height [cm]	H	280	
Min. room height [cm]	H _{min}	220	
Box external dimensions [cm]	WxL	58x118.4	68x118.4
Box internal dimensions [cm]	MxN	54x114	64x114
Height of folded ladder [cm]	K	25.5	
Swing space [cm]	R	157	
Distance after ladder unfolding [cm]	C	118.5	
Box height [cm]		14	

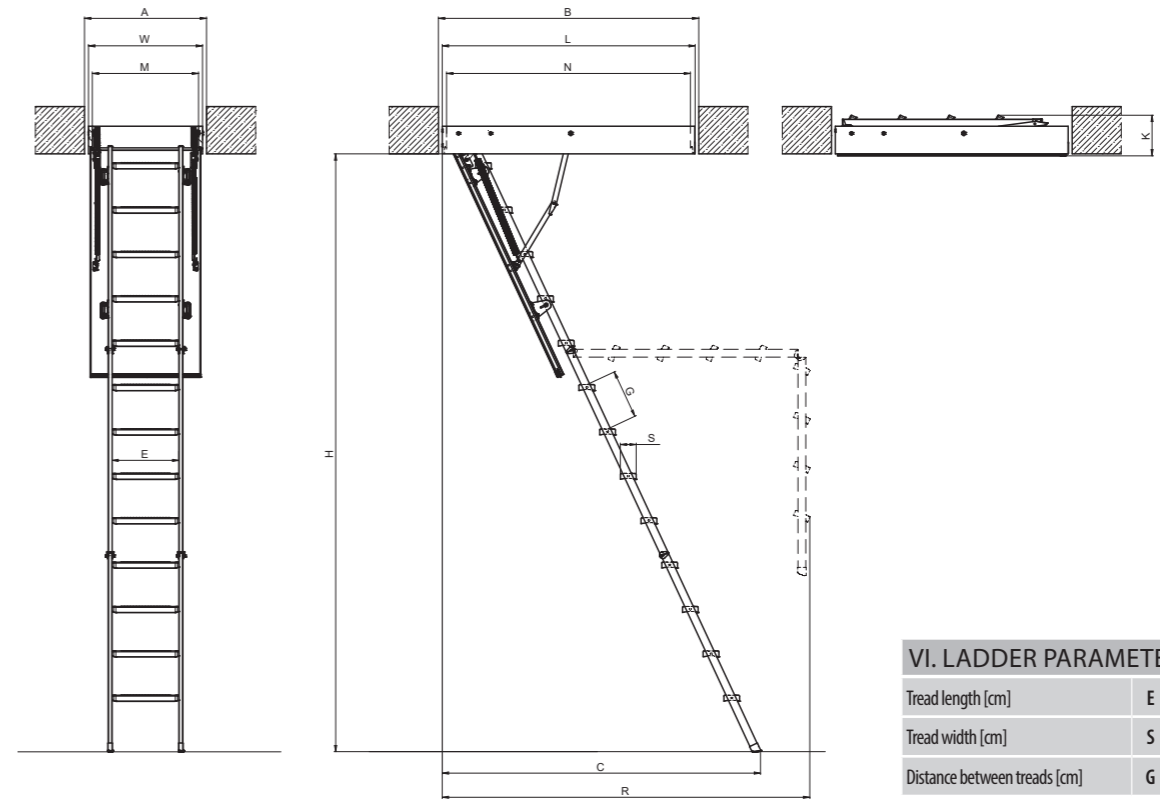
TECHNICAL SPECIFICATION

LMK Komfort

FOLDING METAL SECTION LOFT LADDERS

LOFT LADDER TYPE	LMK Komfort
	 <p>Compliant with EN14975</p>
I. APPLICATION	
Room height [cm]	280, 305
Installation	- fully assembled product - ready for quick installation in the ceiling
II. FEATURES	
Box	pinewood
Hatch	thermo-insulating
Hatch colour	white
Lock	+
Unloading mechanism	-
Ladder	metal, powder-coated with hard wearing lacquer in grey RAL 7022
Seal	peripheral
Treads	metal, anti-slip
Handrail	x 1
Finishing trims	-
Stile ends	+
III. TECHNICAL PARAMETERS	
Hatch heat transfer coefficient U	1.1 W/m²K
Thermal insulation thickness	3 cm
Hatch thickness	3.6 cm
Maximum loading	200 kg
IV. OPTIONS	
Accessories	- handrail - balustrade - installation brackets - wooden trims - plastic trims - box extension - upper hatch - insulation kit - additional tread

V. DIAGRAM OF LMK KOMFORT LOFT LADDER



VI. LADDER PARAMETERS		
Tread length [cm]	E	34
Tread width [cm]	S	8
Distance between treads [cm]	G	25


VII. PARAMETERS LMK KOMFORT LOFT LADDER

Ceiling opening dimensions [cm]	AxB	60x120	70x120	70x130	70x140	60x130	70x130	70x140
Room height [cm]	H	280			305			
Min. room height [cm]	H _{min}	220			245			
Box external dimensions [cm]	WxL	58x118.4	68x118.4	68x128.4	68x138.4	58x128.4	68x128.4	68x138.4
Box internal dimensions [cm]	MxN	54x114	64x114	64x124	64x134	54x124	64x124	64x134
Height of folded ladder [cm]	K	255						
Swing space [cm]	R	157			175			
Distance after ladder unfolding [cm]	C	1185			127			
Box height [cm]		14						

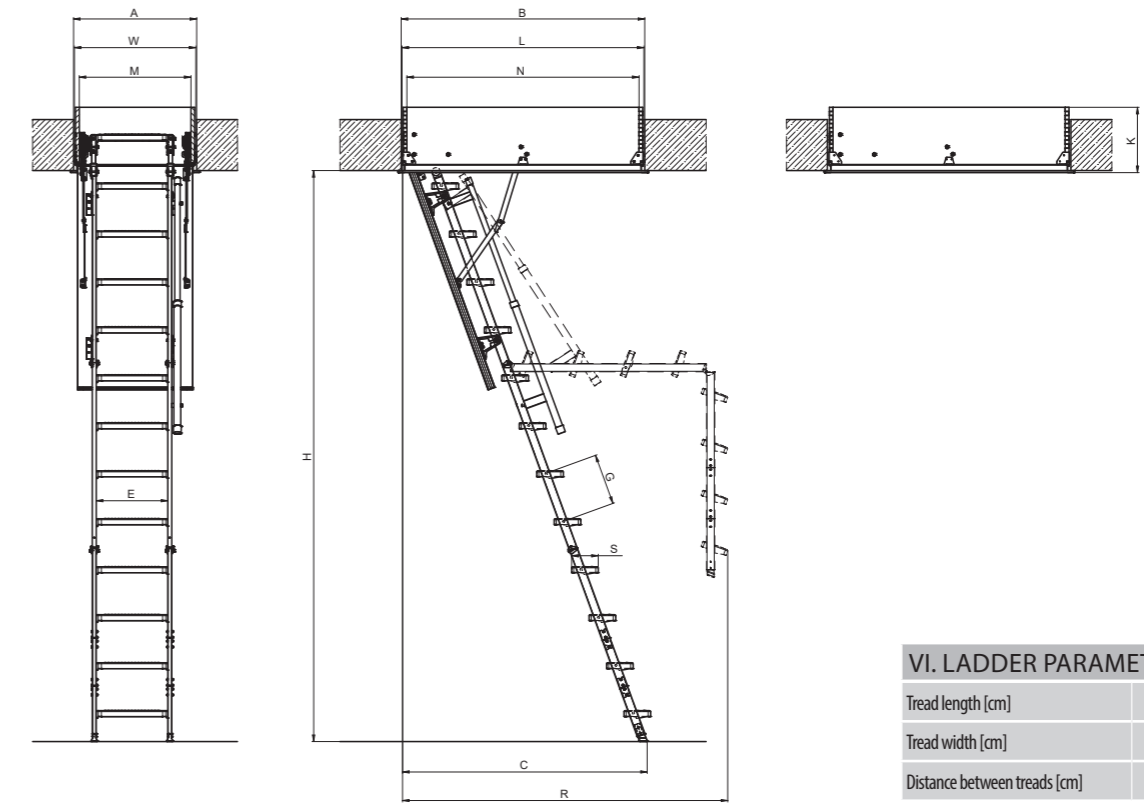
TECHNICAL SPECIFICATION

LML Lux

FOLDING METAL SECTION LOFT LADDER

LOFT LADDER TYPE	LML Lux	
		
	Compliant with EN14975	
I. APPLICATION		
Room height [cm]	280, 305	
Installation	- fully assembled product - quick mounting system in the ceiling (installation brackets) - ready for quick installation in the ceiling	
II. FEATURES		
Box	metal frame, pinewood box	
Hatch	thermo-insulating	
Hatch colour	white	
Lock	-	
Unloading mechanism	+	
Ladder	metal, powder-coated with hard wearing lacquer in grey RAL 9006	
Seal	peripheral	
Treads	metal, anti-slip	
Handrail	telescopic with mechanism supporting folding and unfolding the ladder	
Finishing trims	metal integrated with a steel framework	
Stile ends	retractable	
III. TECHNICAL PARAMETERS		
Hatch heat transfer coefficient U	1.1 W/m ² K	
Thermal insulation thickness	3 cm	
Hatch thickness	3.6 cm	
Maximum loading	200 kg	
IV. OPTIONS		
Accessories	- handrail - box extension - upper hatch - LXX-D installation set	

V. DIAGRAM OF LML LUX LOFT LADDER



VI. LADDER PARAMETERS		
Tread length [cm]	E	35
Tread width [cm]	S	13
Distance between treads [cm]	G	25


VII. PARAMETERS OF LML LUX LOFT LADDER

Ceiling opening dimensions [cm]	AxB	60x120	70x120	70x130	70x140	86x130	92x130	60x130	70x130	70x140	86x130	92x130	
Room height [cm]	H	280						305					
Min. room height [cm]	H _{min}	233						256					
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 trims [cm]		63.6x122.6	72.6x122.6	72.6x132.6	72.6x142.6	88.6x132.6	94.6x132.6	56x124	72.6x132.6	72.6x142.6	88.6x132.6	94.6x132.6	
Box internal dimensions [cm]		55x114	64x114	64x124	64x134	80x124	86x124	55x124	64x124	64x134	80x124	86x124	
Height of folded ladder [cm]	K	315						315					
Swing space [cm]	R	167						178					
Distance after ladder unfolding [cm]	C	120						130					
Box height [cm]		315						315					

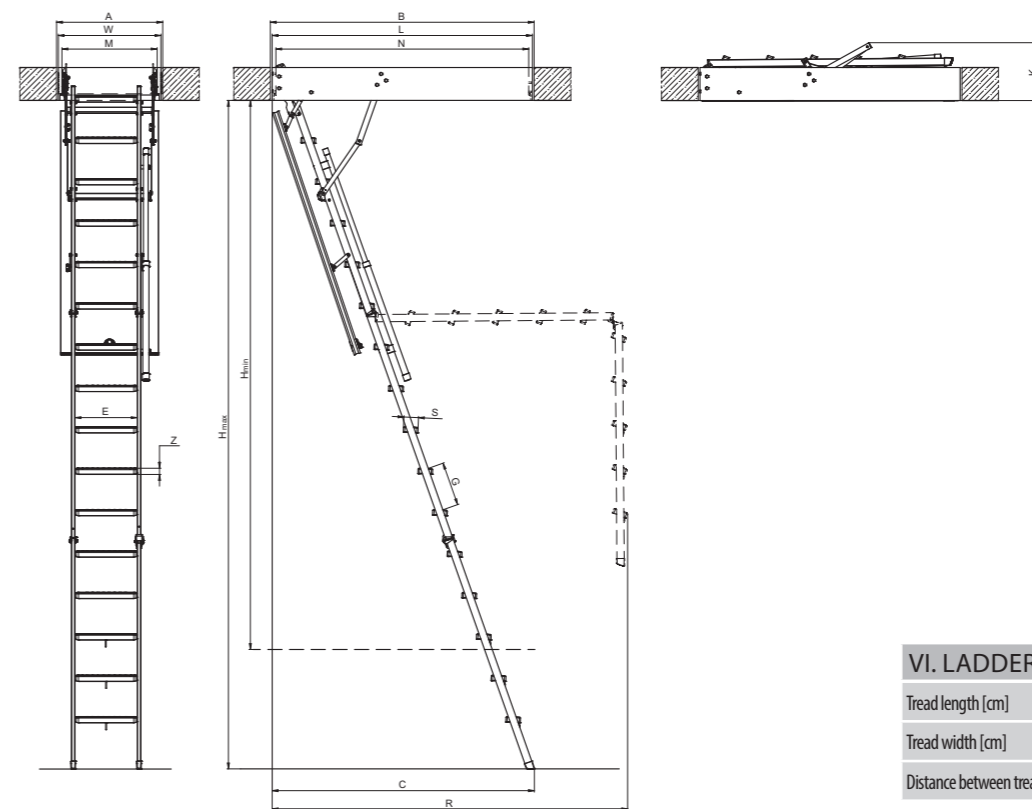
TECHNICAL SPECIFICATION

LMP

FOLDING METAL SECTION LOFT LADDER

LOFT LADDER TYPE	LMP
	 <p style="text-align: right;">Compliant with PN-EN 14975+A1:2010</p>
I. APPLICATION	
Room height [cm]	366
Installation	- fully assembled product - ready for quick mounting in the ceiling
II. FEATURES	
Box	pinewood
Hatch	insulated
Hatch colour	white
Lock	-
Unloading mechanism	+
Ladder	metal, powder coated in RAL 7022
Seal	peripheral
Treads	metal, anti-slip
Handrail	telescopic with mechanism supporting folding and unfolding the ladder
Finishing trims	metal integrated with a steel framework
Stile ends	retractable
III. TECHNICAL PARAMETERS	
Hatch heat transfer coefficient U	1.1 W/m ² K
Thermal insulation thickness	3 cm
Hatch thickness	3,6 cm
Maximum loading	200 kg
IV. OPTIONS	
Accessories	- balustrade - box extension - upper hatch - LXX-D mounting system

V. LOFT LADDER DIAGRAM



VI. LADDER PARAMETERS		
Tread length [cm]	E	34
Tread width [cm]	S	8
Distance between treads [cm]	G	24

VII. TECHNICAL PARAMETERS FOR LOFT LADDERS IN PARTICULAR SIZES


Ceiling opening dimensions [cm]	AxB	60x144	70x144	86x144
Room height [cm]	H	366		
Min. room height [cm]	H _{min}	300		
Box external dimensions [cm]		58x142.2	68x142.2	84x142.2
Box internal dimensions [cm]		54x138.2	64x138.2	80x138.2
Height of folded ladder [cm]	K	32		
Swing space [cm]	R	196		
Distance after ladder unfolding [cm]	C	145		
Box height [cm]		18		

TECHNICAL SPECIFICATION

LMF 45

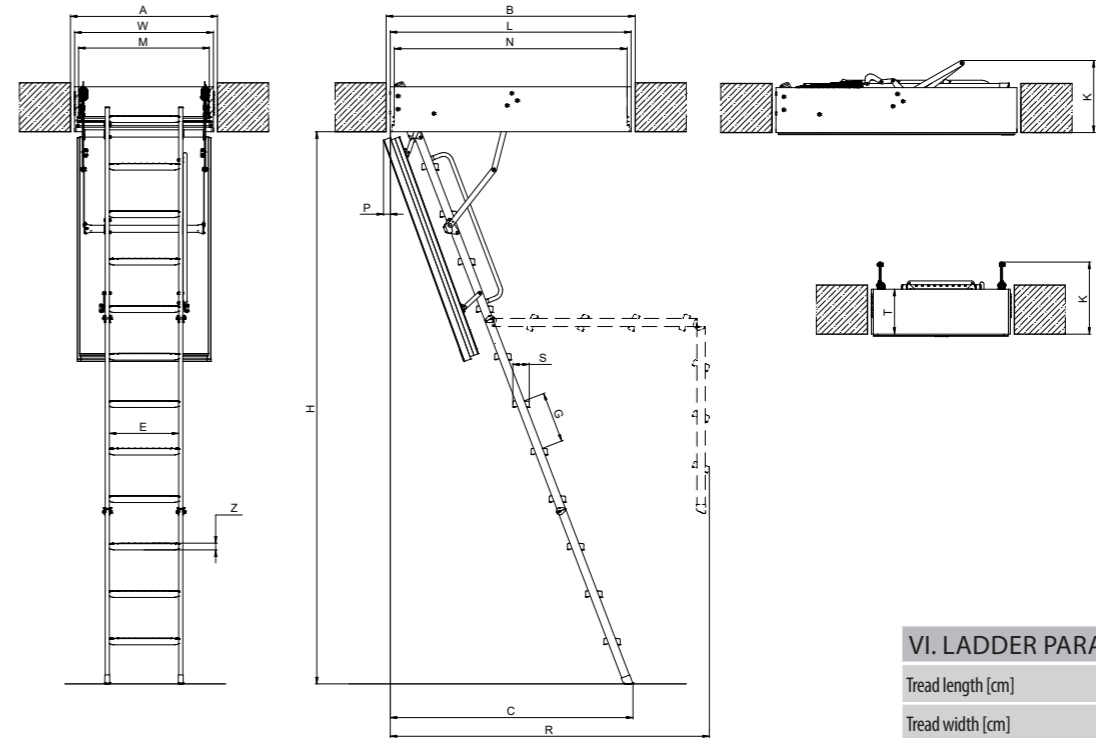
FOLDING METAL SECTION FIRE-RESISTANT LOFT LADDER



LOFT LADDER TYPE	LMF 45
	 <p style="text-align: right;">Compliant with EN14975</p>
I. APPLICATION	
Room height [cm]	280, 305, 358 cm
Installation	- fully assembled product - ready for quick installation in the ceiling
II. FEATURES	
Box	pinewood
Hatch	fire-resistant
Hatch colour	white
Lock	+
Ladder supporting mechanism	+ (in loft ladder with a height of up to 358cm)
Ladder	metal, powder-coated with hard wearing lacquer in grey RAL 7022
Seal	x3, seal increasing its volume under the influence of high temperature
Treads	metal, anti-slip
Handrail	+
Finishing trims	-
Stile ends	+
III. TECHNICAL PARAMETERS	
Stairs heat transfer coefficient U*	0.6* W/m²K
Thermal insulation thickness	7.4 cm
Hatch thickness	8 cm
Maximum loading	200 kg
Fire resistance	EI ₁ =45min
IV. OPTIONS	
Accessories	- handrail (only in 280 and 305 cm versions) - balustrade - installation brackets - wooden trims - plastic trims - box extension - upper hatch

* manufacturer's own data

V. DIAGRAM OF LMF 45 LOFT LADDER



VI. LADDER PARAMETERS

Tread length [cm]	E	34
Tread width [cm]	S	8
Distance between treads [cm]	G	25 (24 for the stairs of the maximum room height 358cm)


VII. PARAMETERS OF LMF 45 LOFT LADDER

Ceiling opening dimensions [cm]	AxB	60x120	70x120	70x130	70x140	86x130	70x130	70x140	86x130	60x140	70x140	86x140	
Room height [cm]	H	280				305				358			
Min. room height [cm]	H _{min}	233				234				300			
Zewnętrzne wymiary skrzynki [cm]		58x118	68x118	68x128	68x138	84x128	68x128	68x138	84x128	58x138	68x138	84x138	
Box internal dimensions [cm]		54x114	64x114	64x124	64x134	80x124	64x124	64x134	80x124	54x134	64x134	80x130	
Height of folded ladder [cm]	K	41								39			
Swing space [cm]	R	156				167				194			
Distance after ladder unfolding [cm]	C	125				135				155			
Hatch board retraction after opening [cm]	P									4			
Box height [cm]										22			

TECHNICAL SPECIFICATION

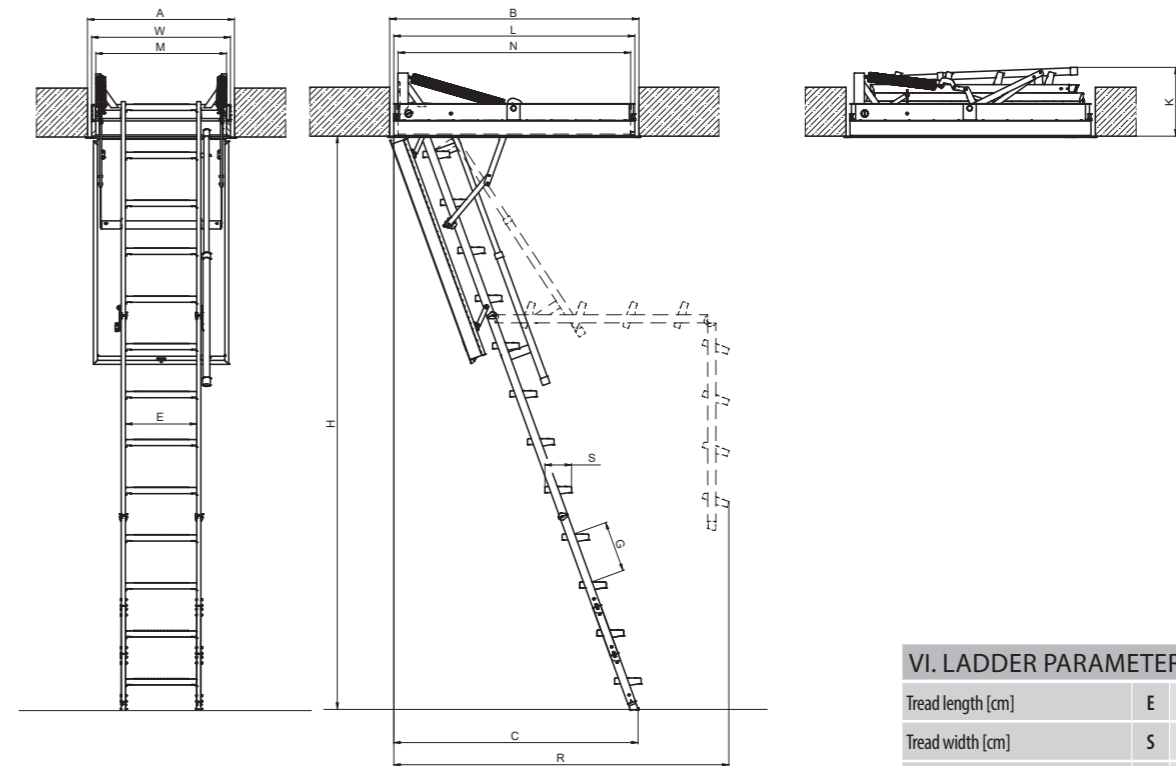
LMF FOLDING METAL SECTION FIRE-RESISTANT LOFT LADDER



LOFT LADDER TYPE	LMF
	 <p style="text-align: right;">Compliant with EN14975 Classification as per EN 13501-2</p>
I. APPLICATION	
Room height [cm]	280, 305
Installation	<ul style="list-style-type: none"> - fully assembled product - quick mounting system in the ceiling (installation brackets) - ready for quick installation in the ceiling
II. FEATURES	
Box	metal frame, pinewood box
Hatch	fire-resistant
Hatch colour	white
Lock	+
Unloading mechanism	+
Ladder	metal, powder-coated with hard wearing lacquer in grey RAL 9006
Seal	x3, seal increasing its volume under the influence of high temperature
Treads	metal, anti-slip
Handrail	telescopic with mechanism supporting folding and unfolding the ladder
Finishing trims	metal integrated with a steel framework
Stile ends	retractable
III. TECHNICAL PARAMETERS	
Hatch heat transfer coefficient U*	0.79 W/m²K*
Thermal insulation thickness	8 cm
Hatch thickness	8.2 cm
Maximum loading	200 kg
Fire resistance	EI ₂ =120min
IV. OPTIONS	
Accessories	<ul style="list-style-type: none"> - handrail - box extension - upper hatch

* manufacturer's own data

V. DIAGRAM OF LMF LOFT LADDER



VI. LADDER PARAMETERS


Tread length [cm]	E	35
Tread width [cm]	S	13
Distance between treads [cm]	G	25

VII. PARAMETERS OF LMF LOFT LADDER

Ceiling opening dimensions [cm]	AxB	60x120	70x120	70x130	70x140	86x130	70x130	70x140	86x130
Room height [cm]	H	280				305			
Min. room height [cm]	H _{min}	233				256			
Box external dimensions [cm]		59x118	68x118	68x128	68x138	84x128	68x128	68x138	84x128
Box external dimensions with trims [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
Box internal dimensions [cm]		55x114	64x114	64x124	64x134	80x124	64x124	64x134	80x124
Height of folded ladder [cm]	K	34							
Swing space [cm]	R	167				178			
Distance after ladder unfolding [cm]	C	120				130			
Box height [cm]		16							

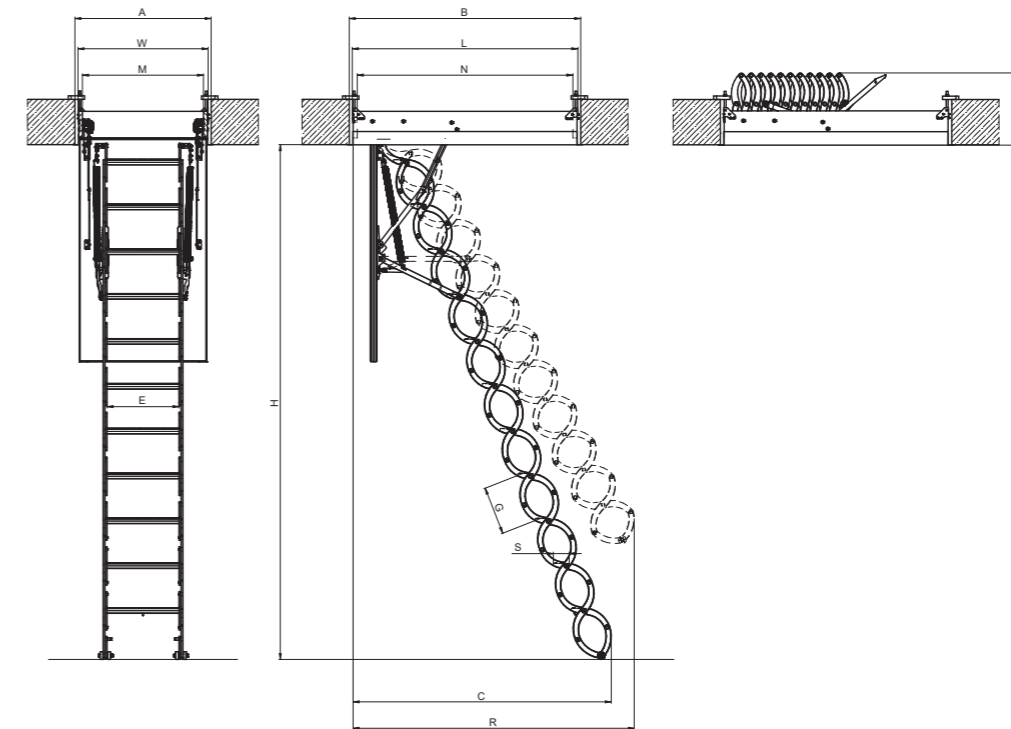
TECHNICAL SPECIFICATION

LST SCISSOR LOFT LADDER

LOFT LADDER TYPE	LST	
		Compliant with EN14975
I. APPLICATION		
Room height [cm]	250-280	
Installation	- fully assembled product - quick mounting system in the ceiling (installation brackets) - ready for quick installation in the ceiling	
II. FEATURES		
Box	pinewood	
Hatch	thermo-insulating	
Hatch colour	white	
Lock	-	
Unloading mechanism	+	
Ladder	metal, length of the ladder adjusted to the room height	
Seal	peripheral	
Treads	anti-slip, possibility to remove or add tread	
Handrail	-	
Finishing trims	metal	
Stile ends	-	
III. TECHNICAL PARAMETERS		
Hatch heat transfer coefficient U*	1.1 W/m ² K	
Thermal insulation thickness	3 cm	
Hatch thickness	3.6 cm	
Maximum loading	200 kg	
IV. OPTIONS		
Accessories	- handrail - box extension - upper hatch*	
Other	- extension of stairs to max. 330 cm by 2 LSS treads	

for 4-segment stairs use LXN box extension before upper hatch

V. DIAGRAM OF LST LOFT LADDER



VI. LADDER PARAMETERS

	LOFT LADDER LST			
	51x...	60x...	70x...	
Tread length [cm]	E	26	30	38
Tread width [cm]	S	8		
Distance between treads [cm]	G	24-26		
Standard number of treads [unit]	11			
LSS tread	LSS-26	LSS-31	LSS-38	

VII. PARAMETERS OF LST LOFT LADDER


	AxB	Ladder standard length				
		51x80	60x90	60x120	70x80	70x120
Ceiling opening dimensions [cm]	AxB	51x80	60x90	60x120	70x80	70x120
Room height [cm]	H	250-280				
Box external dimensions [cm]	WxL	51x79.4	59x89.4	59x119.4	69x79.4	69x119.4
Box external dimensions with trims [cm]		56x84.4	64x94.4	64x124.4	74x84.4	74x124.4
Box internal dimensions [cm]	MxN	46x74	54x84	54x114	64x74	64x114
Height of folded ladder [cm]	K	38.2				
Swing space [cm]	R	150				
Distance after ladder unfolding [cm]	C	146-134				
Box height [cm]		18				

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

* treads LSS-26, LSS-31, LSS-38.
When ordering treads it is necessary to provide the dimensions of the loft ladder aperture.

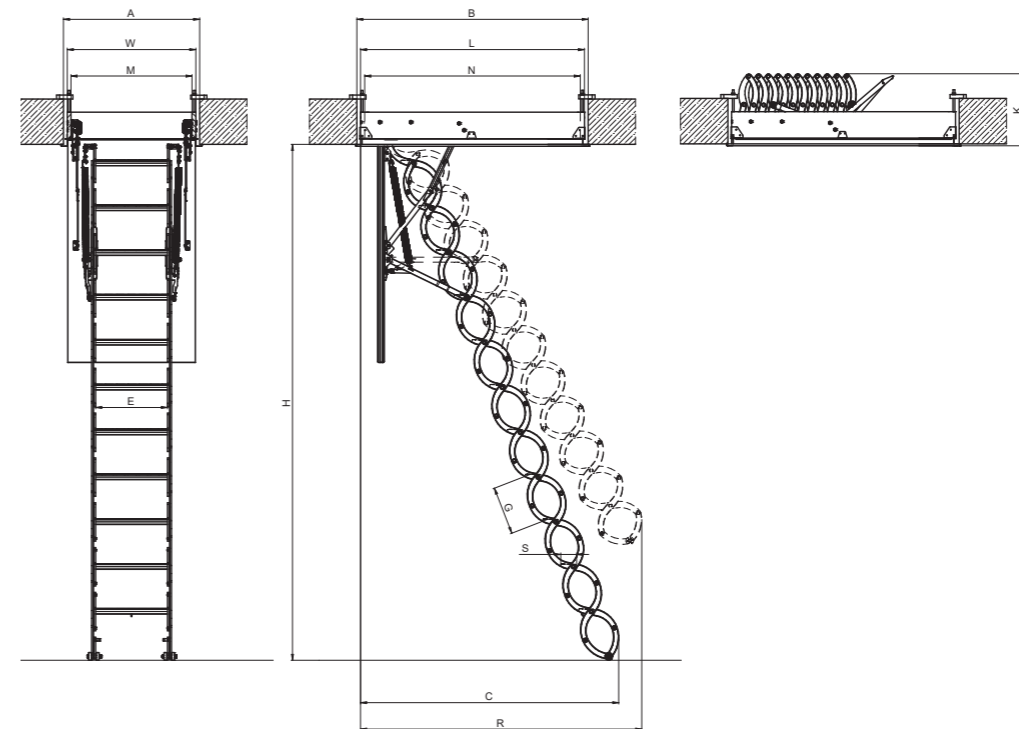
TECHNICAL SPECIFICATION

LSZ SCISSOR LOFT LADDER

LOFT LADDER TYPE	LSZ
	
	Compliant with EN14975
I. APPLICATION	
Room height [cm]	250-280
Installation	<ul style="list-style-type: none"> - fully assembled product - quick mounting system in the ceiling (installation brackets) - ready for quick installation in the ceiling
II. FEATURES	
Box	metal frame, pinewood box
Hatch	thermo-insulating
Hatch colour	white
Lock	-
Unloading mechanism	-
Ladder	metal, length of the ladder adjusted to the room height
Seal	peripheral
Treads	anti-slip, possibility to remove or add tread
Handrail	-
Finishing trims	metal, integrated with steel framework
Stile ends	-
III. TECHNICAL PARAMETERS	
Stairs heat transfer coefficient U	1.1 W/m ² K
Thermal insulation thickness	3 cm
Hatch thickness	3.6 cm
Maximum loading	200 kg
IV. OPTIONS	
Accessories	<ul style="list-style-type: none"> - handrail - box extension - upper hatch*
Other	- extension of stairs to max. 330 cm by 2 LSS treads

* for 4-segment stairs use LXN box extension before upper hatch

V. DIAGRAM OF LSZ LOFT LADDER



VI. LADDER PARAMETERS

		LOFT LADDER LSZ	
		51x...	70x...
Tread length [cm]	E	26	38
Tread width [cm]	S	8	
Distance between treads [cm]	G	24-26	
Standard number of treads [unit]		11	
LSS tread		LSS-26	LSS-38

VII. PARAMETERS OF LSZ LOFT LADDER

		Ladder standard length		
		51x80	70x80	70x120
Ceiling opening dimensions [cm]	AxB			
Room height [cm]	H	250-280		
Box external dimensions [cm]	WxL	51x79.4	69x79.4	69x119.4
Box external dimensions with trims [cm]		54.6x82.6	72.6x82.6	72.6x122.6
Box internal dimensions [cm]	MxN	45.7x73.7	63.7x73.7	63.7x113.7
Height of folded ladder [cm]	K	38.2		
Swing space [cm]	R	150		
Distance after ladder unfolding [cm]	C	146-134		
Box height [cm]		14		


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

* treads LSS-26, LSS-31, LSS-38.
When ordering treads it is necessary to provide the dimensions of the loft ladder aperture.

TECHNICAL SPECIFICATION

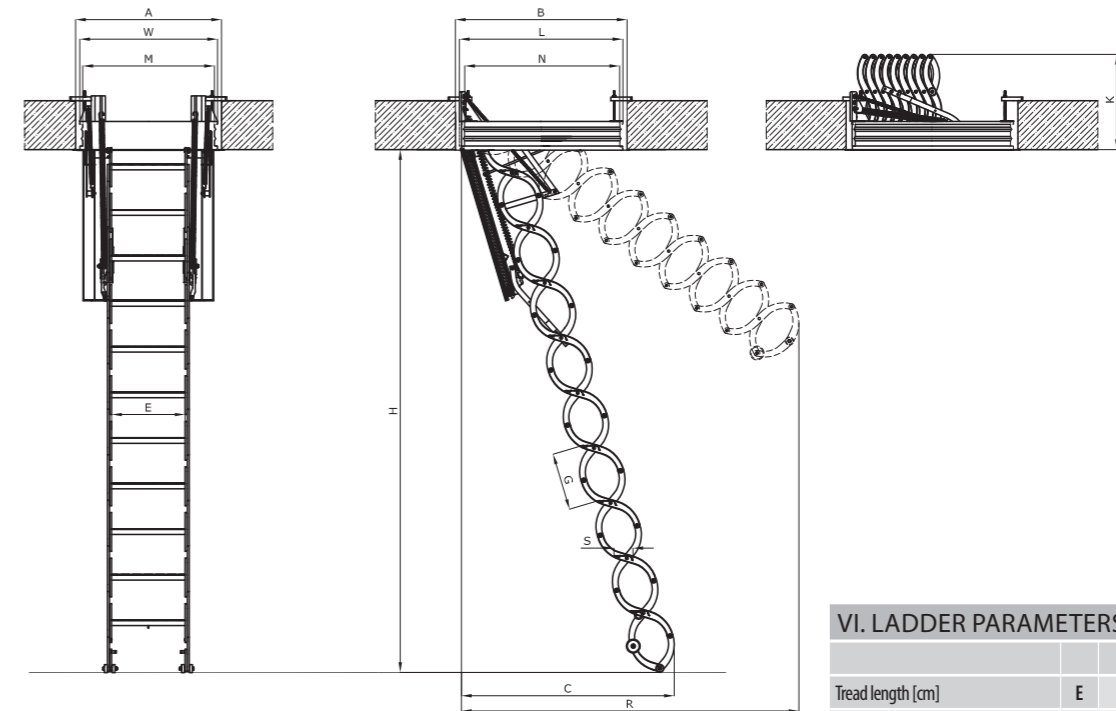
LSF SCHODY STRYCHOWE OGNIODPORNE NOŻYCOWE



LOFT LADDER TYPE	LSF
	 <p>Compliant with EN14975 Classification as per EN 13501-2</p>
I. APPLICATION	
Room height [cm]	270 - 300
Installation	- fully assembled product - quick mounting system in the ceiling (installation brackets) - ready for quick installation in the ceiling
II. FEATURES	
Box	metal
Hatch	fire-resistant
Hatch colour	white
Lock	+
Unloading mechanism	-
Ladder	metal, length of the ladder adjusted to the room height
Seal	seal increasing its volume under the influence of high temperature
Treads	anti-slip, possibility to remove or add tread
Handrail	-
Finishing trims	metal, integrated with steel framework
Stile ends	-
III. TECHNICAL PARAMETERS	
Hatch heat transfer coefficient U*	1.8 W/m ² K*
Thermal insulation thickness	3 cm
Hatch thickness	5.4 cm
Maximum loading	200 kg
Fire resistance	EI ₂ =60min
IV. OPTIONS	
Accessories	- handrail
Other	- extension of stairs to max. 330 cm by 2 LSS treads

* manufacturer's own data

V. DIAGRAM OF LSF LOFT LADDER



VI. LADDER PARAMETERS

		50x...	60x...	70x...
Tread length [cm]	E	30	32	40
Tread width [cm]	S		8	
Distance between treads [cm]	G		25-30	
Standard number of treads [unit]	Z		10	
LSS tread		LSS-30	LSS-32	LSS-40

VII. PARAMETERS OF LSF LOFT LADDER

Ceiling opening dimensions [cm]	AxB	50x70	60x90	60x120	70x80	70x90	70x110	70x120	Ladder shorter by 1 tread (9 treads)		Standard ladder (10 treads)		Ladder longer by 1 tread* (11 treads)	
									240	270	270	300	300	320
Room height [cm]	H	270-300												
Box external dimensions [cm]		48x68.5	58x88.5	58x118.5	68x78.5	68x88.5	68x108.5	68x118.5	Sizes of loft ladders and dimensions not included in the table are the same as for loft ladders with a height of 250 - 280 cm					
Box external dimensions with trims [cm]		54.8x75	64.8x95	64.8x125	74.8x85	74.8x95	74.8x115	74.8x125						
Box internal dimensions [cm]		44.8x64.8	54.8x84.8	54.8x114.8	64.8x74.8	64.8x84.8	64.8x104.8	64.8x114.8						
Height of folded ladder [cm]	K	46												
Swing space [cm]	R	170-180												
Distance after ladder unfolding [cm]	C	165-130												
Box height [cm]		14												
* treads LSS-26, LSS-31, LSS-38. When ordering treads it is necessary to provide the dimensions of the loft ladder aperture.														