



KRONmat

**Loft Ladders
2018**

Loft Ladders






OptiStep

The **KRONMAT** Company offers a wide range of loft ladders sold under the OptiStep brand name and equipped with a wooden as well as metal scissors ladders. The OptiStep loft ladder combines functionality with high durability at an optimum price. Good quality wood together with high quality of manufacture guarantee that the products we offer can perfectly suit any interior. Loft ladders provide quick and safe access to the loft or attic space. When folded, they hide in the ceiling, thus freeing space inside the room.

The section loft ladder is equipped with a steel crossbar transferring the load to the ladder which in combination with applied material solutions provide high strength and durability of the product.

Additionally, a specially designed hinge controls the movement of the hatch so that during opening the ladder automatically shifts away from the hatch, thus increasing space for convenient and safe operation of the loft ladder.

A new product in the OptiStep offer is the **OMS Miller Staircase**, made of spruce wood, which can be successfully used in summer houses, private homes as well as a temporary solution ensuring safe communication between floors. For more information see **page 16**.

Model	PREMIUM		BEST		OLK
	OLE MAXI Thermo	OLE Thermo	OLE	OLT	
					
Version	fully assembled loft ladder		the loft ladder assembled without supports requiring screwing side elements		
Box	wooden with a height of 14cm				
Seal	yes (2 units) 4 th tightness class**				
Hatch	two-sided white 5.6cm thick insulated hatch of sandwich type	two-sided white 4.6cm thick insulated hatch of sandwich type	two-sided white 3.6cm thick insulated hatch of sandwich type	two-sided beige 3.6cm thick insulated hatch of sandwich type	two-sided white 2.6cm thick insulated hatch of sandwich type
	equipped with a lock, control rod is used to open the hatch		equipped with a plastic catch, control rod is used to open the hatch		
Ladder	wooden, section, profile of the stringer with the height of 19cm				
Treads	wooden, tread width 19cm				
Handrail	yes			no	yes
Quick installation					yes
Insulation	0,70 W/m²K*	0,85 W/m²K*	1,13 W/m²K*		
Loading	150 kg				
Page	page 4	page 5	page 6	page 7	page 8

*manufacturer's internal testing for the middle part of the hatch

**manufacturer's internal tests

Advantages

Space saving

The Optistep loft ladder when folding and unfolding does not require a large space. After folding, the loft ladder “hides” in the ceiling. This solution saves the space in the room in which the product was installed.

Easy to install

The installation systems ensures easy mounting by two people and adjustment of the ladder length to suit the room height. The loft ladder is delivered to the Customer fully assembled and does not require any pre-installation work.

Easy operation

The proper design of the hatch unloading mechanism facilitates operation of the loft ladder.






A control rod delivered along with the loft ladder ensures its comfort opening and closing.

Additional equipment

To enhance comfort of use and quicken installation of the Optistep section loft ladder there are available additional accessories.

Warranty

Optistep loft ladders and miller staircase come with 2 year warranty.

BETTER		OLA		BASIC OLB		OLN	BEST OST		
									
before mounting in the ceiling		fully assembled loft ladder				the loft ladder assembled without supports requiring screwing side elements before mounting in the ceiling	fully assembled loft ladder		
		wooden with a height of 12cm		wooden with a height of 11cm		wooden with a height of 11cm	wooden with a height of 18cm + metal lining slats		
yes (1 unit)						no	yes (1 unit)		
cm thick hatch	two-sided beige 2.6cm thick insulated hatch of sandwich type	3.6cm thick insulated hatch of sandwich type, two-sided white		2.6cm thick insulated hatch of sandwich type, two-sided white		non-insulated 1cm thick chipboard	two-sided white 3.6cm thick insulated hatch of sandwich type		
on the hatch		equipped with a snap lock, control rod is used to open the hatch				string is used for opening the hatch	equipped with a plastic catch, control rod is used to open the hatch		
t of 7cm						wooden, section, profile of the stringer with the height of 7cm	metal with the scissors system of folding		
h 7cm							anti-slipping, tread width 8cm		
	no	yes		no					
1,54 W/m²K*		1,13 W/m²K*		1,54 W/m²K*		—	yes		
150 kg							1,1 W/m²K		
page 9		page 10		page 11		page 12	160 kg		
							page 14		

PREMIUM OLE MAXI Thermo

OptiStep®



U= 0.70
W/m²K

high insulation

4 CLASS
EN12207

4th the highest
tightness class



easy and quick
installation



high comfort
of use



additional
accessories
available

5,6
cm

WARRANTY
2
YEARS

Maximum loading	150kg
Ladder width	38cm
Tread width	7cm
Tread length	34cm
Distance between treads	25cm
Hatch thickness	5.6cm
Box height	14cm
Heat transfer coefficient*	U=0.70W/m²K
Tightness class**	4th according to EN12207

*manufacturer's internal testing for the middle part of the hatch

**manufacturer's internal tests

Hatch

- two-sided white 5.6cm thick insulated hatch of sandwich type,
- equipped with lock.

Box

- made of pinewood/spruce wood;
- stiffened in corners by means of patented hinges;
- equipped with two seals.

Ladder

- made of pinewood.

Treads

- treads connected to the strings by means of dovetail joints for increased connection durability;
- equipped with special anti-slipping grooves.

Available sizes

60x111, 60x120, 60x130, 70x111, 70x120, 70x130 [cm]



Energy-efficiency

White insulated hatch with a thickness of 5.6cm forms an excellent barrier reducing heat loss by the room.



Perfect tightness

Dual seal system in the box ensures excellent tightness – 4th the highest tightness class.



Lock inside hatch

Excellent tightness is additionally ensured by a lock situated in the hatch which when closing presses the hatch against seals.



Comfort of use

Metal handrail increases comfort and safety of loft ladder use.

PREMIUM OLE Thermo

OptiStep®



Maximum loading	150kg
Ladder width	38cm
Tread width	7cm
Tread length	34cm
Distance between treads	25cm
Hatch thickness	4.6cm
Box height	14cm
Heat transfer coefficient*	U=0.85W/m²K
Tightness class**	4 th according to EN12207

*manufacturer's internal testing for the middle part of the hatch

**manufacturer's internal tests

Hatch

- two-sided white 4.6cm thick insulated hatch of sandwich type,
- equipped with lock.

Box

- made of pinewood/spruce wood;
- stiffened in corners by means of patented hinges;
- equipped with two seals.

Ladder

- made of pinewood.

Treads

- treads connected to the strings by means of dovetail joints for increased connection durability;
- equipped with special anti-slipping grooves.

Available sizes

60x111, 60x120, 60x130, 70x111, 70x120, 70x130 [cm]



Energy-efficiency

White insulated hatch with a thickness of 4.6cm forms a very good barrier reducing heat loss by the room.



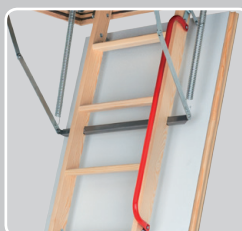
Perfect tightness

Dual seal system in the box ensures excellent tightness – 4th the highest tightness class.



Lock inside hatch

Excellent tightness is additionally ensured by a lock situated in the hatch which when closing presses the hatch against seals.



Comfort of use

Metal handrail increases comfort and safety of loft ladder use.

BEST OLE

OptiStep®



Maximum loading
Ladder width
Tread width
Tread length
Distance between treads
Hatch thickness
Box height
Heat transfer coefficient*

150kg
38cm
7cm
34cm
25cm
3.6cm
14cm
U=1.13W/m²K

*manufacturer's internal testing for the middle part of the hatch

Hatch

- two-sided white 3.6cm thick insulated hatch of sandwich type.

Box

- made of pinewood/spruce wood;
- stiffened in corners with a spring catch;
- equipped with a peripheral seal.

Ladder

- made of pinewood.

Treads

- treads connected to the strings by means of dovetail joints for increased connection durability;
- equipped with special anti-slipping grooves.

Available sizes

60x111, 60x120, 60x130, 70x111, 70x120, 70x130 [cm]

Energy-efficiency

Two-sided white 3.6cm thick insulated hatch reduces heat loss.

Perfect tightness

The box is equipped with a seal ensuring high level of tightness

Safety of use

The grooves in the tread surface protect the foot from slipping while climbing up and down the ladder.

Comfort of use

Metal handrail enhances comfort and safety of the loft ladder operation.

BEST OLT

OptiStep®



U:
1.13
W/m²K

high insulation



easy and quick
installation



high comfort
of use



additional
accessories
available

3,6
cm



Maximum loading	150kg
Ladder width	38cm
Tread width	7cm
Tread length	34cm
Distance between treads	25cm
Hatch thickness	3.6cm
Box height	14cm
Heat transfer coefficient*	U=1.13W/m²K

*manufacturer's internal testing for the middle part of the hatch

Hatch

- two-sided beige 3.6cm thick insulated hatch of sandwich type.

Box

- made of pinewood/spruce wood;
- stiffened in corners with a spring catch;
- equipped with a peripheral seal.

Ladder

- made of pinewood.

Treads

- treads connected to the strings by means of dovetail joints for increased connection durability;
- equipped with special anti-slipping grooves.

Available sizes

60x111, 60x120, 60x130, 70x111, 70x120, 70x130 [cm]



Energy-efficiency

Two-sided beige 3.6cm thick insulated hatch reduces heat loss.



Perfect tightness

The box is equipped with e seal ensuring high level of tightness.



Safety of use

The grooves in the tread surface protect the foot from slipping while climbing up and down the ladder.

BETTER OLK

OptiStep®



Maximum loading	150kg
Ladder width	38cm
Tread width	7cm
Tread length	34cm
Distance between treads	25cm
Hatch thickness	2.6cm
Box height	14cm
Heat transfer coefficient*	U=1.54W/m²K

*manufacturer's internal testing for the middle part of the hatch

Hatch

- two-sided white 2.6cm thick insulated hatch of sandwich type reduces heat loss.

Box

- made of pinewood/spruce wood;
- stiffened in corners with a spring catch;
- equipped with a peripheral seal.

Ladder

- made of pinewood

Treads

- treads connected to the strings by means of dovetail joints for increased connection durability;
- equipped with special anti-slipping grooves.

Available sizes

60x111, 60x120, 60x130, 70x111, 70x120, 70x130 [cm]



Energy-efficiency

Two-sided white 2.6cm thick insulated hatch reduces heat loss.



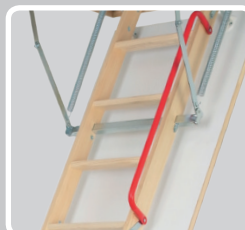
Perfect tightness

The box is equipped with a seal ensuring high level of tightness.



Safety of use

The grooves in the tread surface protect the foot from slipping while climbing up and down the ladder.



Comfort of use

Metal handrail enhances comfort and safety of the loft ladder operation.

BETTER OLS

OptiStep®



Maximum loading	150kg
Ladder width	38cm
Tread width	7cm
Tread length	34cm
Distance between treads	25cm
Hatch thickness	2.6cm
Box height	14cm
Heat transfer coefficient*	U=1.54W/m²K

*manufacturer's internal testing for the middle part of the hatch

Hatch

- two-sided beige 2.6cm thick insulated hatch of sandwich type.

Box

- made of pinewood/spruce wood;
- stiffened in corners with a spring catch;
- equipped with a peripheral seal.

Ladder

- made of pinewood

Treads

- treads connected to the strings by means of dovetail joints for increased connection durability;
- equipped with special anti-slipping grooves.

Available sizes

60x111, 60x120, 60x130, 70x111, 70x120, 70x130 [cm]



Energy-efficiency

Two-sided beige 2.6cm thick insulated hatch reduces heat loss.



Perfect tightness

The box is equipped with a seal ensuring high level of tightness.



Safety of use

The grooves in the tread surface protect the foot from slipping while climbing up and down the ladder.

BASIC OLA

OptiStep®



U=1,13
W/m²K

high insulation



easy and quick
installation



high comfort
of use

3,6
cm

WARRANTY
2
YEARS

Maximum loading
Ladder width
Tread width
Tread length
Distance between treads
Hatch thickness
Box height
Heat transfer coefficient*

150kg
35cm
6.8cm
30cm
25cm
3.6cm
12cm
U=1.13W/m²K

*manufacturer's internal testing for the middle part of the hatch

Hatch

- “sandwich” type insulated hatch with a thickness of 36mm;
- finished on both sides with HDF board, white;
- equipped with a snap lock;
- opened by means of supplied control rod.

Box

- made of spruce or pine wood;
- stiffened in corners by means of a spring catch;
- equipped with clinging seal;

Ladder

- made of spruce wood.

Treads

- treads connected to the strings by means of dovetail joints for increased connection durability;
- equipped with special anti-slipping grooves for extra security.

Available sizes

60x120, 70x120 [cm]



Energy-efficiency

3.6cm thick insulated hatch
reduces heat loss.



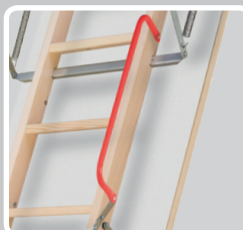
High aesthetics

White on the outer side, the hatch
matches perfectly with the
interior design.



Snap lock

Hatch is equipped with a snap
lock which presses the hatch
against seals.



Comfort of use

Metal handrail increases comfort
and safety of loft ladder use.

BASIC OLB

OptiStep®



U=1.54
W/m²K

high insulation



easy and quick
installation



high comfort
of use



additional
accessories
available

2,6
cm

WARRANTY
2
YEARS

Maximum loading	150kg
Ladder width	35cm
Tread width	6,7cm
Tread length	30cm
Distance between treads	25cm
Hatch thickness	2.6cm
Box height	11cm
Heat transfer coefficient*	U=1.54W/m²K

*manufacturer's internal testing for the middle part of the hatch

Hatch

- “sandwich” type insulated hatch with a thickness of 26mm;
- finished on both sides with HDF board, white;
- equipped with a snap lock;
- opened by means of supplied control rod.

Box

- made of spruce or pine wood;
- stiffened in corners by means of a spring catch;
- equipped with clinging seal;

Ladder

- made of spruce wood.

Treads

- treads connected to the strings by means of dovetail joints for increased connection durability;
- equipped with special anti-slipping grooves for extra security.

Available sizes

60x120, 70x120 [cm]



Energy-efficiency

2.6cm thick insulated hatch
reduces heat loss.



High aesthetics

White on the outer side, the hatch
matches perfectly with the
interior design.



Snap lock

Hatch is equipped with a snap
lock which presses the hatch
against seals.

BASIC OLN

OptiStep®



small weight



easy and quick
installation



high comfort
of use



additional
accessories
available

1,0
cm

WARRANTY
2
YEARS

Maximum loading
Ladder width
Tread width
Tread length
Distance between treads
Hatch thickness
Box height

150kg
38cm
7cm
34cm
25cm
1cm
11cm

Hatch

- chipboard

Box

- made of pinewood/spruce wood;
- stiffened in corners with a spring catch.

Ladder

- made of pinewood

Treads

- treads connected to the strings by means of dovetail joints for increased connection durability;
- equipped with special anti-slipping grooves.

Available sizes

60x120, 70x120 [cm]



Hatch

The hatch made of 1cm
thick chipboard.



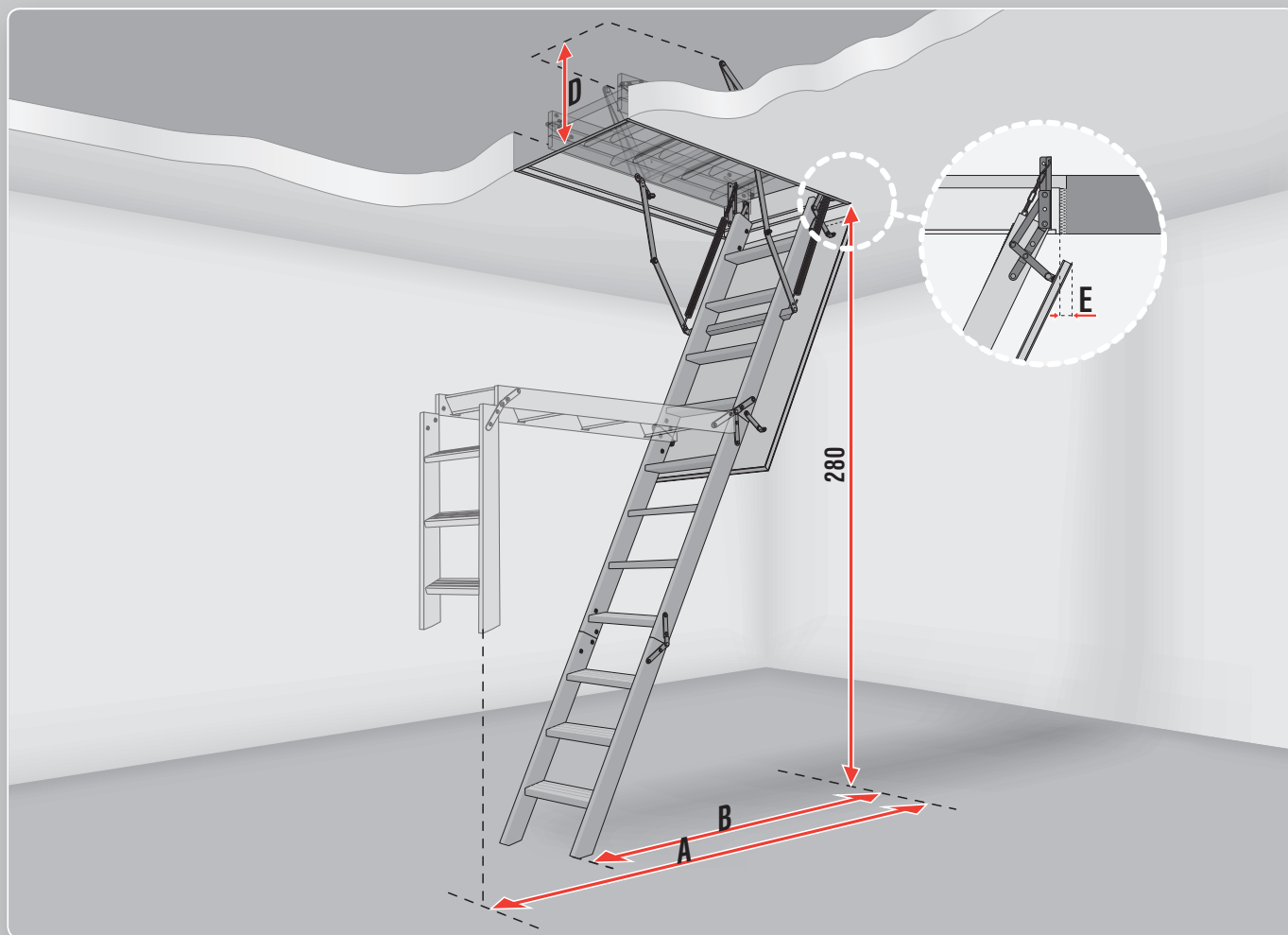
Safety of use

The grooves in the tread surface
protect the foot from slipping while
climbing up and down the ladder.



Easy operation

Thanks to the special design of the
unloading mechanism, the hatch
when closing is automatically
pressed against the loft ladder box.



Model	Commercial dimensions [cm]	Box external dimension [cm]	Room minimum height [cm]	Room maximum height [cm]	A - Swing space [cm]	B - Distance after ladder unfolding [cm]	D - Height of folded ladder [cm]	E - Hatch retraction after opening [cm]
OLE MAXI Thermo OLE Thermo	60x111 70x111 60x120 70x120 60x130 70x130	58x109,4 68x109,4 58x118,4 68x118,4 58x128,4 68x128,4	229	280	151	121	27 / 26	6 / 5
OLE OLE	60x111 70x111 60x120 70x120 60x130 70x130	58x109 68x109 58x118 68x118 58x128 68x128	230	280	156	120	39	4
OLS OLK	60x111 70x111 60x120 70x120 60x130 70x130	58x109 68x109 58x118 68x118 58x128 68x128	230	280	156	120	39	3
OLA	60x120 70x120	58x118 68x118	230	280	154	120	25	4
OLB	60x120 70x120	58x118 68x118	230	280	154	120	24	3
OLN	60x120 70x120	58x118 68x118	230	280	156	120	39	1

BEST OST

OptiStep®



Maximum loading
Tread width
Tread length

160kg
8cm
for 50 x 24cm
for 60 x 30cm
for 70 x 38cm

Hatch thickness
Box height
Heat transfer coefficient

3.6cm
18cm
 $U=1.1W/m^2K$

Hatch

- two-sided white 3.6cm thick insulated hatch of sandwich type.

Box

- made of pinewood;
- stiffened in corners by means of patented hinges;
- equipped with a peripheral seal.

Ladder

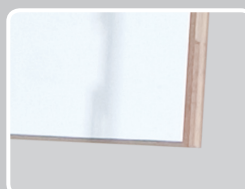
- metal with the scissors system of folding that makes it possible to suit its length to the room height;
- finished with special rolls protecting the floor from scratching.

Treads

- equipped with anti-slipping profile.

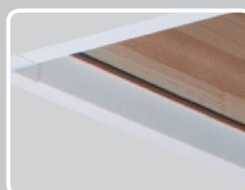
Available sizes

50x80, 60x90, 60x100, 60x120, 70x80, 70x90, 70x100, 70x120 [cm]



Energy-efficiency

Two-sided white 3.6cm thick insulated hatch of sandwich type reduces heat loss.



Perfect tightness

The box is equipped with e seal ensuring high level of tightness.



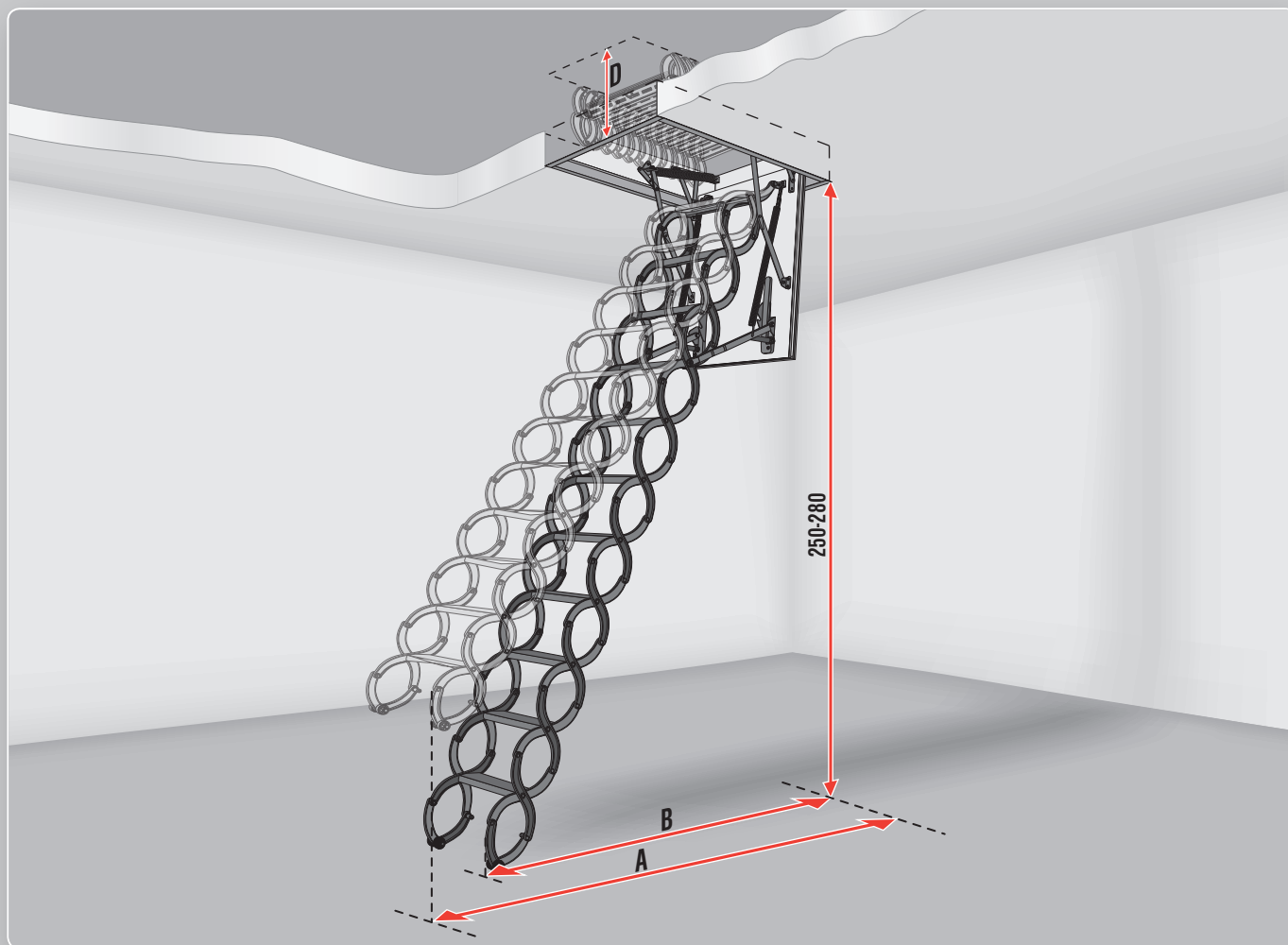
Safety and comfort of use

Anti-slipping profile of the tread protects foot from slipping when ascending or descending the ladder. S-shaped stringers facilitate use of the loft ladder.



Quick installation

Quick installation brackets enable easy installation, while metal finishing slats allow for fast masking gaps between the ceiling and box of the loft ladder.



Model	Commercial dimensions [cm]	Box external dimension [cm]	Minimum room height [cm]	Room maximum height [cm]	A - Swing space [cm]	B - Distance after ladder unfolding [cm]	D - Height of folded ladder [cm]
OST	50x80	49x79,4	230	280	150	134-146	38,2
	60x90	59x89,4					
	60x100	59x99,4					
	60x120	59x119,4					
	70x80	69x79,4					
	70x90	69x89,4					
	70x100	69x99,4					
	70x120	69x119,4					

BETTER OMS

OptiStep®



ready to paint



DIY



high comfort
of use



Maximum loading
Inclination angle

150kg
55°

Type

- straight miller staircase featuring latticework construction and designed for DIY installation

Material

- spruce wood prepared for DIY finish

Stringers

- 2.7cm thick

Treads

- 2.7cm thick
- connected with stringers and additionally reinforced by means of screws

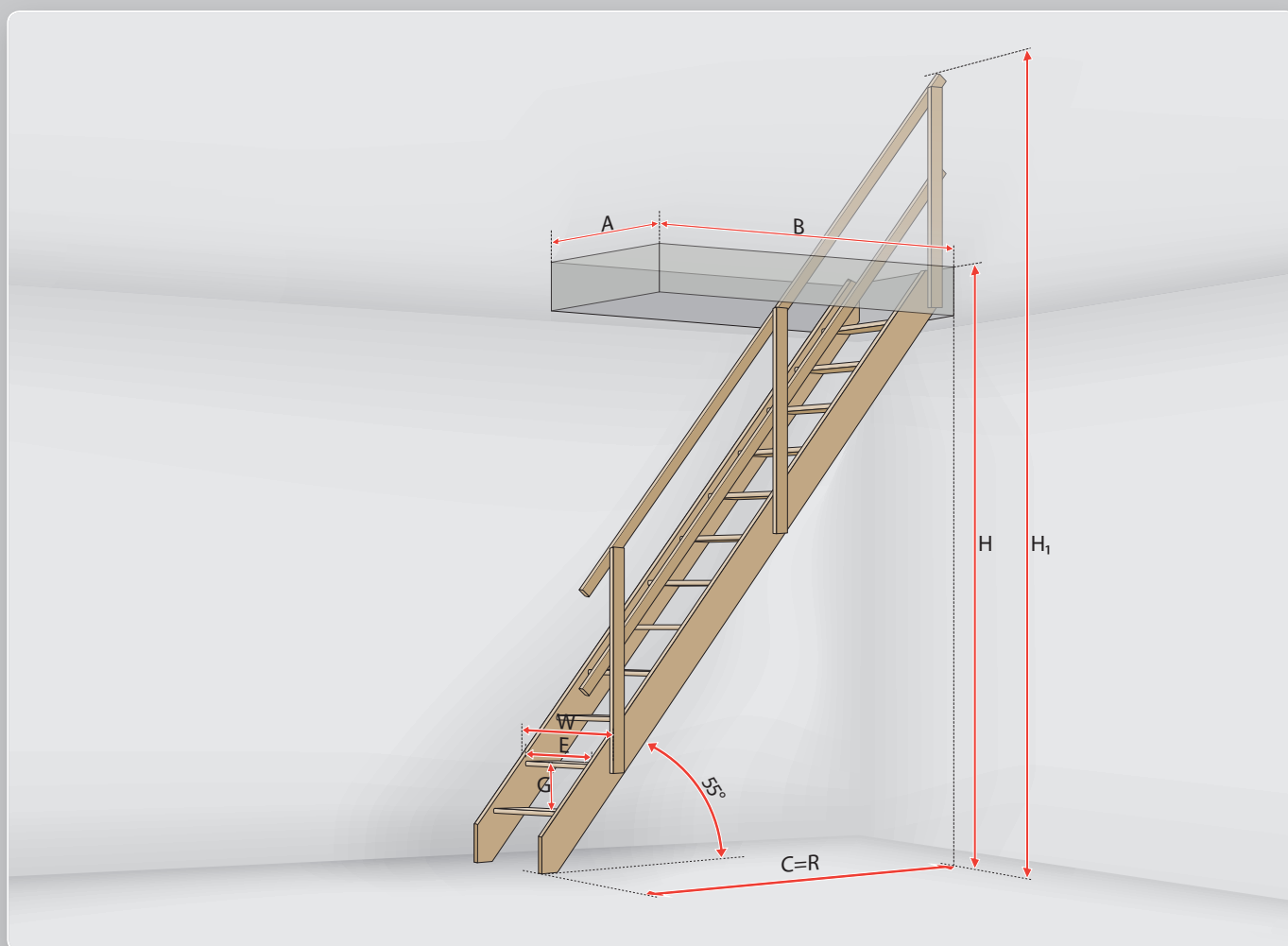
Installation method

- to the ceiling and floor by means of included brackets



Safety and comfort of use

It is possible to purchase the OXM handrail made of spruce wood to the OMS staircase and mount it on either side of the run of the stairs.



Size		65cm
Maximum floor height	H	290cm
Installed staircase height with handrail	H1	364cm
Minimum ceiling opening dimensions	AxB	70x145cm
Distance occupied by staircase on the floor	C	192cm
Distance occupied by staircase on the floor with handrail*	R	207cm
Staircase width	W	65cm
Treads		13pcs.
Distance between treads	G	21cm
Tread length	E	60cm
Tread width	S	14cm
Inclination angle		55°
Maximum loading		150kg

* OXM handrail as an additional accessory

Accessories

OXL-PVC

OXL-PVC lining slats –
installation in OLE
loft ladders



OXL-PVC lining slats –
installation in OLK
loft ladders

Masking slats

The OXL masking slats are used for aesthetic hiding gaps between the box of the ladder and the opening in the ceiling. Slats are available in the size 70x140cm. Matching to smaller sizes of loft ladders by cutting longitudinal elements of slats. They are suitable for the following loft ladders: OLS, OLK, OLT, OLE, OLE Thermo, OLE MAXI Thermo.

OXH 50/13



Handrail

Metal handrail makes climbing the ladder easier, increases comfort and safety of the loft ladder use. It can be mounted on the right side of the ladder.

Handrail is suitable for the following loft ladders: OLN, OLS, OLT, OLB.

OXS



Stile ends

OXS plastic stile ends are mounted on base of Optistep section loft ladders. OXS are finishing elements made of plastic in black and additionally they protect the floor from being scratched.

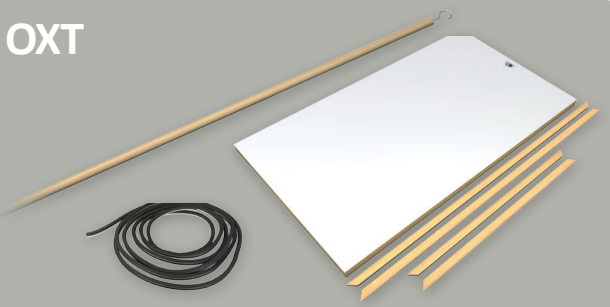
OXR



Kit for opening hatch

The OXR kit is an alternative method for opening the hatch of non-insulated loft ladder (with chipboard). The kit includes a hook screwed into the gap in the hatch and wooden control rod for opening the hatch.

OXT



Insulation kit

The OXT kit enhances insulation properties of the OLN non-insulated loft ladder mounted in the ceiling without the need for its whole replacement. The kit includes: two-sided white 2.6cm thick insulated hatch, peripheral seal to be mounted in the box, wooden masking slats and control rod for opening the hatch.

Available sizes

60x120, 70x120 [cm]

Compatibility lists Optistep

	OXL-PVC Masking slats	OXH 50/13 Handrail	OXS Stile ends	OXR Kit for opening hatch	OXT insulation kit
OLE MAXI Thermo	✓	—	✓	—	—
OLE Thermo	✓	—	✓	—	—
OLE	✓	—	✓	—	—
OLT	✓	✓	✓	—	—
OLK	✓	—	✓	—	—
OLS	✓	✓	✓	—	—
OLA	—	—	✓	—	—
OLB	—	✓	✓	—	—
OLN	—	✓	✓	✓	✓
OST	—	—	—	—	—





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