



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 | | |
| Ladder | wooden, section, profile of the stringer with the height | | | | |
| Treads | wooden, tread width | | | | |
| Handrail | yes | | no | | yes |
| Quick installation | yes | | | | |
| Insulation | 0,70 W/m ² K* | 0,85 W/m ² K* | 1,13 W/m ² K* | | |
| 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) | |
| 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 | |
| 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 | |
| | | | | | | wooden, section, profile of the stringer with the height of 7cm | | metal with the scissors system of folding | |
| | | | | | | | | anti-slipping, tread width 8cm | |
| no | | yes | | | | no | | yes | |
| 1,54 W/m ² K* | | 1,13 W/m ² K* | | 1,54 W/m ² K* | | — | | 1,1 W/m ² K | |
| 150 kg | | | | | | | | 160 kg | |
| page 9 | | page 10 | | page 11 | | page 12 | | 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** | 4 th 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

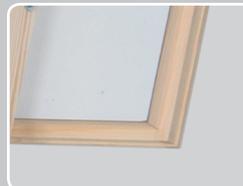
- made of pinewood.

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®



U:
0.85
W/m²K

high insulation

4 CLASS
EN12207

4th the highest
tightness class



easy and quick
installation



high comfort
of use



additional
accessories
available

4,6
cm

WARRANTY
2
YEARS

| | |
|----------------------------|--------------------------------------|
| 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/m ² K |
| 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®



U:
1.13
W/m²K

high insulation



easy and quick
installation



high comfort
of use



additional
accessories
available

3,6
cm

WARRANTY
2
YEARS

| | |
|----------------------------|-------------|
| 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 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

WARRANTY
2
YEARS

| | |
|----------------------------|--------------------------|
| 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/m ² K |

*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®



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 | 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.



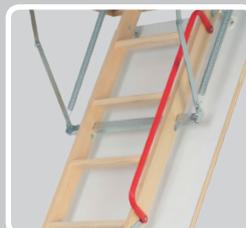
Perfect tightness

The box is equipped with 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.



Comfort of use

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

BETTER OLS

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 | 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 | 150kg |
| Ladder width | 35cm |
| Tread width | 6.8cm |
| Tread length | 30cm |
| Distance between treads | 25cm |
| Hatch thickness | 3.6cm |
| Box height | 12cm |
| Heat transfer coefficient* | U=1.13W/m ² K |

*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

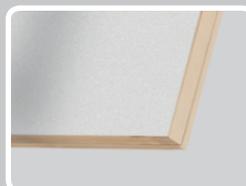
- made of spruce wood.

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.



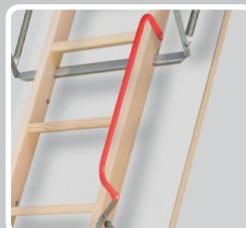
High aesthetics

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



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.



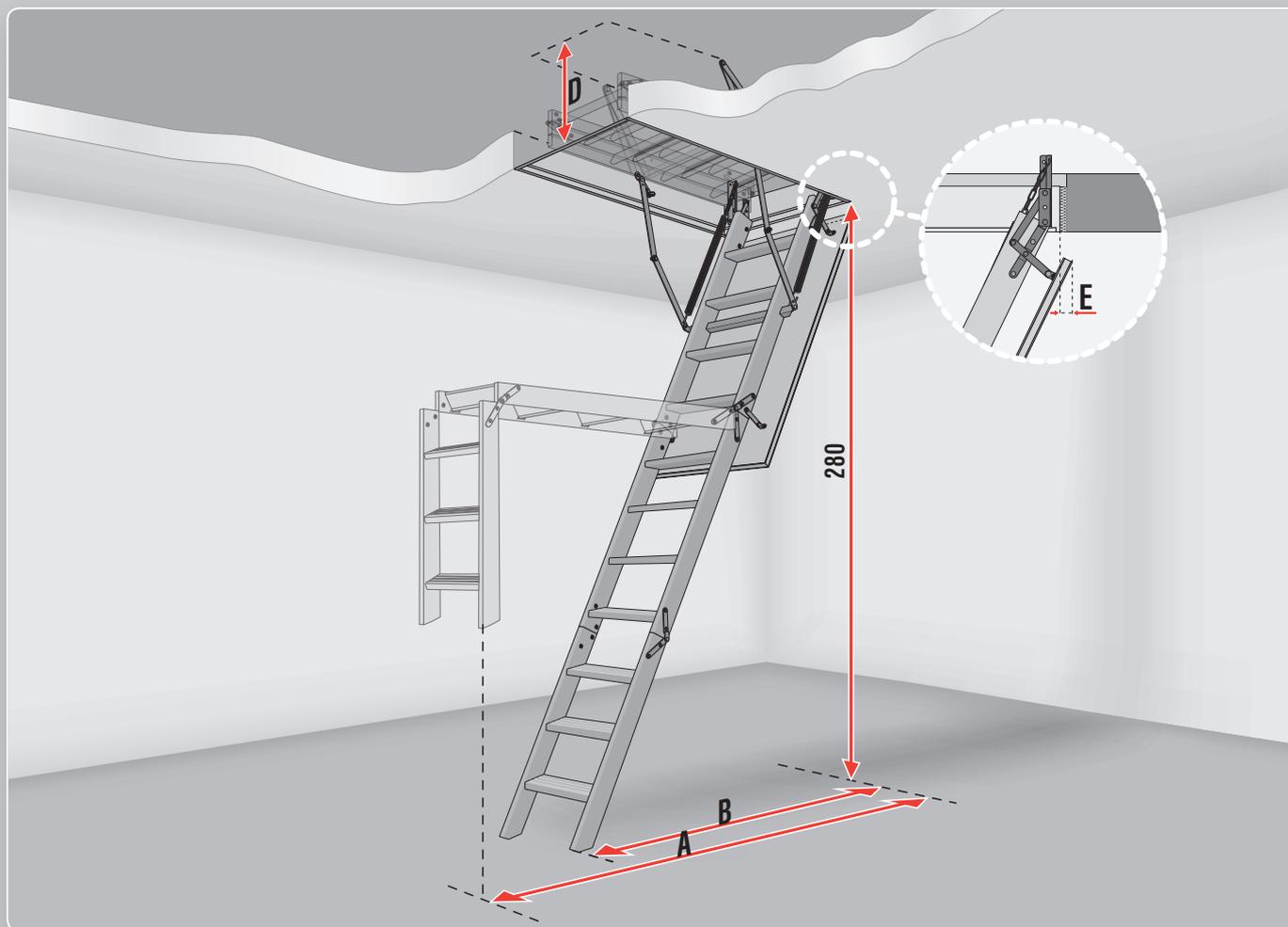
Safety of use

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 | 160kg |
| Tread width | 8cm |
| Tread length | for 50 x 24cm for 60 x 30cm for 70 x 38cm |
| Hatch thickness | 3.6cm |
| Box height | 18cm |
| Heat transfer coefficient | U=1.1W/m²K |

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.



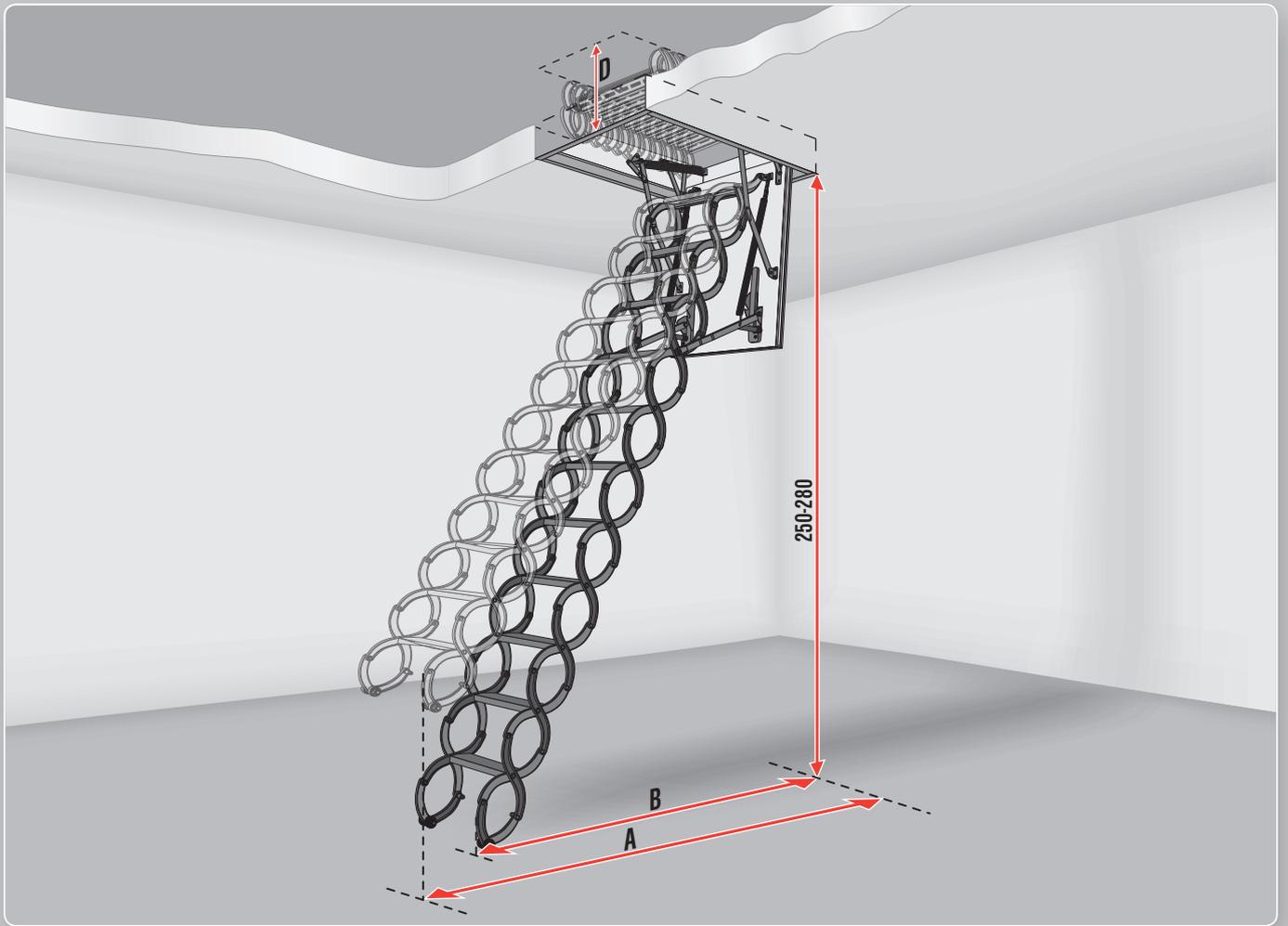
Safety and comfort of use

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

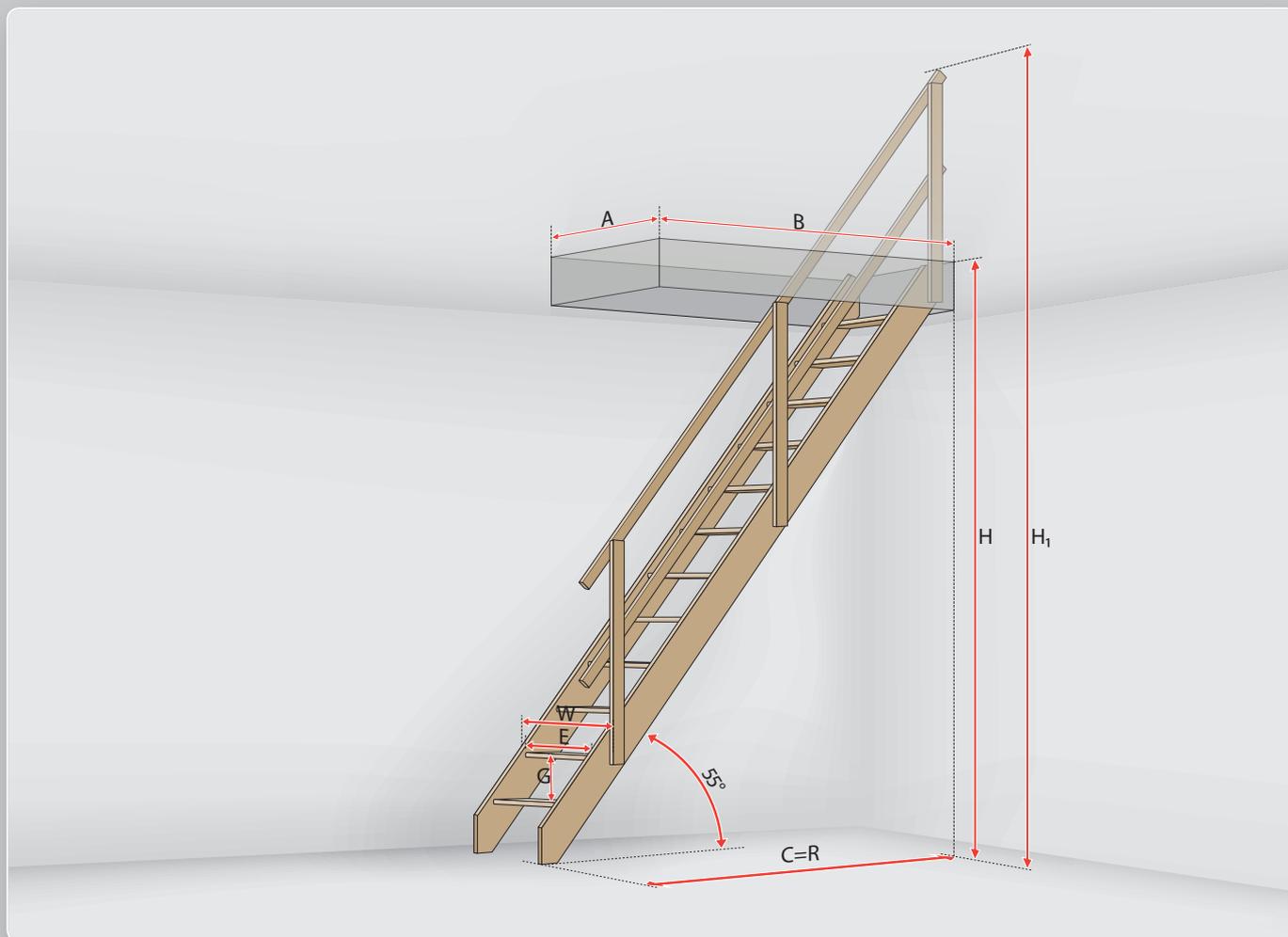
Installation method

- 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 | H ₁ | 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

OXH 50/13



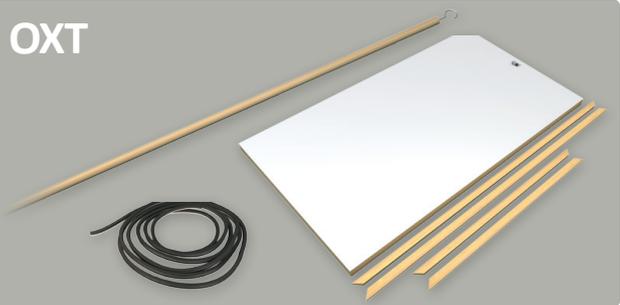
OXS



OXR



OXT



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.

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.

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.

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.

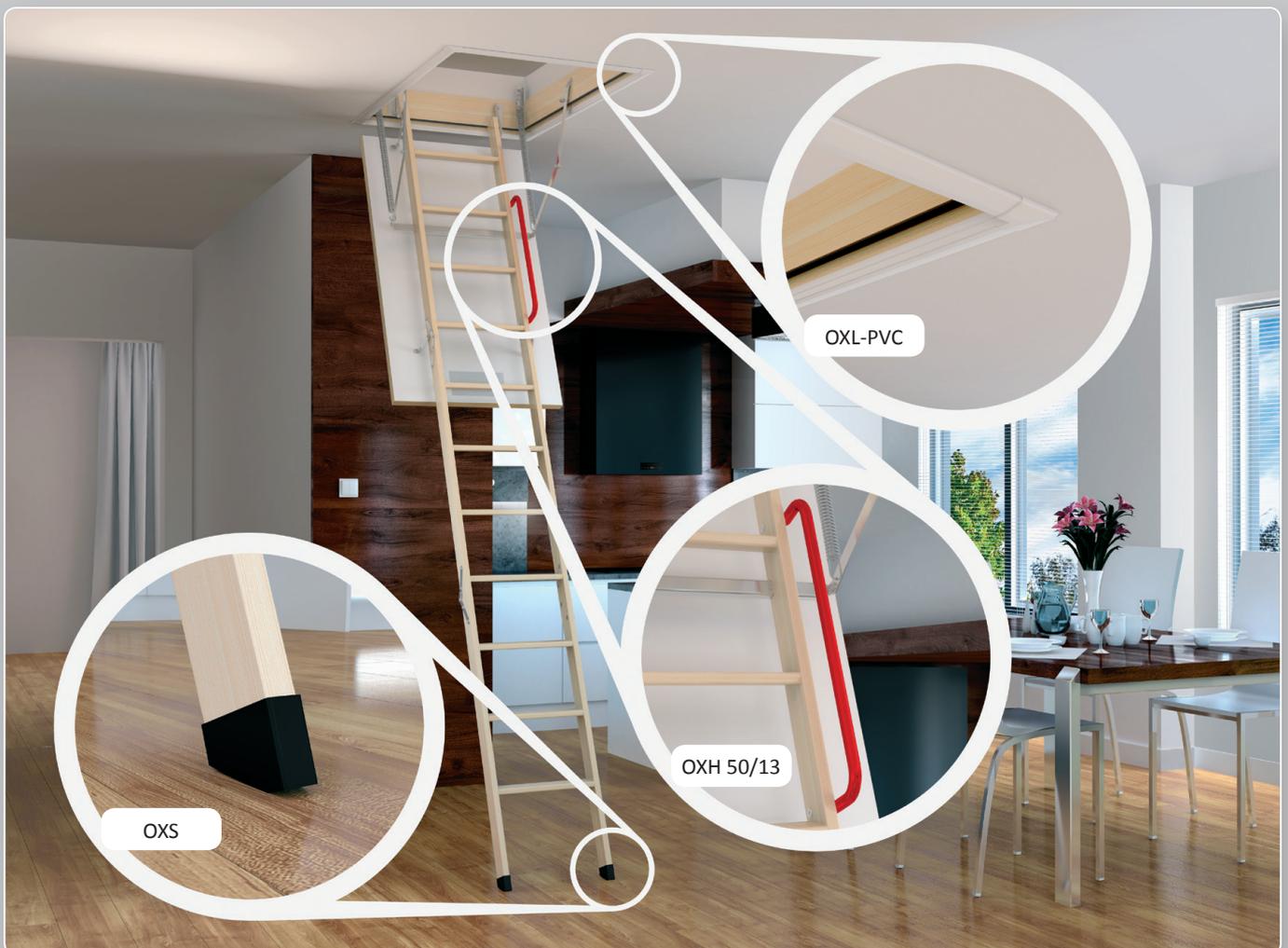
Insulation kit

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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