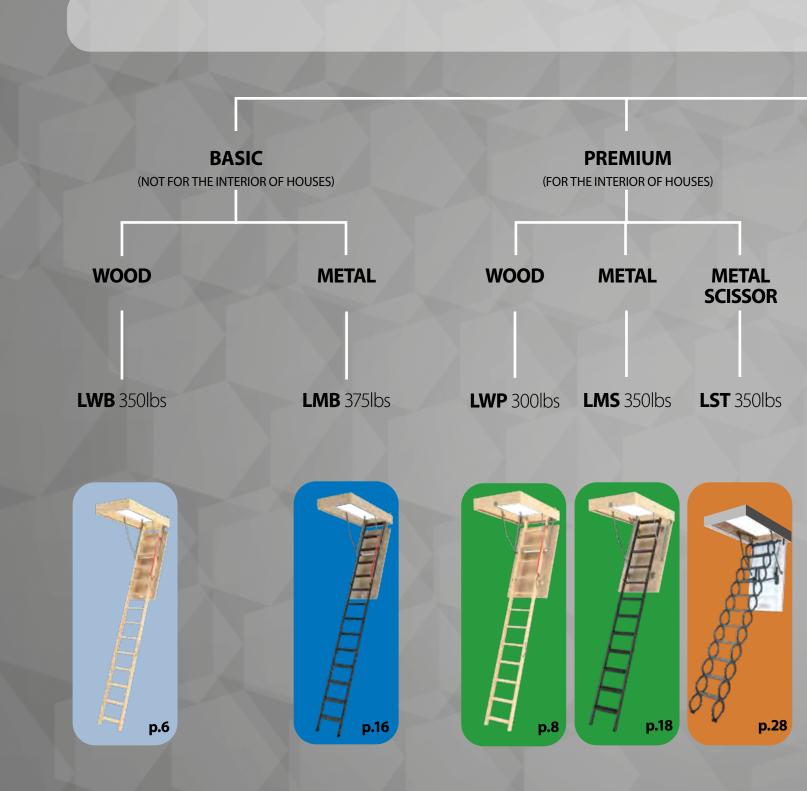
Smart Attic LADDERS

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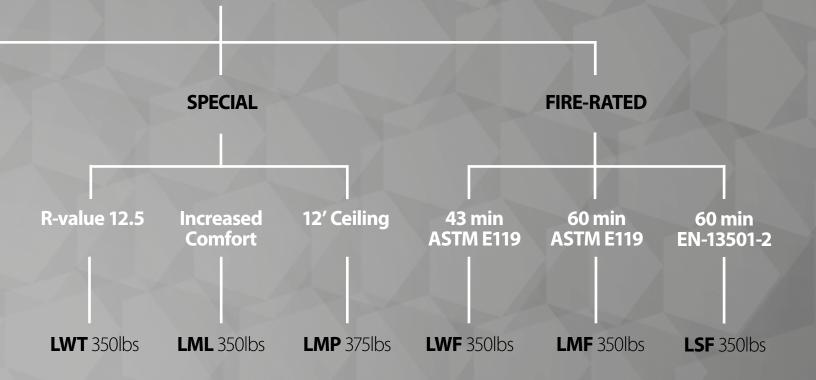


調調



HOW TO CHOOSE AN ATTIC LADDER?

INSULATED







BOX

The ladder box frame is made of wood. Wooden frame for insulated models contains a peripheral gasket situated within the milled section of the box. Once the hatch is closed this gasket ensures proper tightness of the entire unit. Specially designed frame allows fast and convenient trim installation.

hatch unloading mechanism

Operation of the attic ladder is **significantly improved** because of FAKRO's unique opening mechanism. Once unlocked, the hatch opens slowly without any potential danger to the user. Once fully opened, this mechanism will hold the hatch in position, preventing it from slamming shut. **No sudden movements**.

HARDWARE

The patented corner hinge or spring catch reinforces the rigidity of the box and helps maintain square corners.

Thanks to this, the box is not affected by deformations and can be operated trouble free once installed. The ladder hinges joining each of the ladder sections provide rigidity to moving connections.

STEPS

Grooves which are cut into the step surface protect the user from accidental slipping while using the ladder.

LADDER

HATCH

fire.

The attic ladder hatch can be

board), insulated (sandwich

thermal insulation protects

against heat loss and - in fire

rated attic ladders - also against significant heat transfer during

non-insulated (made of particle

type) or fireproofed. The applied

FAKRO wooden attic ladders made of high quality pine wood are composed of three sections. The special ladder structure and materials used ensure it's high durability.

PLASTIC ENDS

The ladder can be equipped with the plastic ends. They are specially designed to prevent from scratching the floor and to help stabilizing the ladder.

WOODEN FOLDING ATTIC LADDER





The LWB model is a basic insulated attic ladder made of pine wood. It allow access to otherwise unable attic spaces with the hassle and clutter of an extension ladder. Each LWB model is equipped with a handrail, insulted door and weather seal gasket to reduce heat loss.



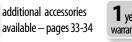
insulated door ready for paint



handrail

non-slip steps

additional accessories a

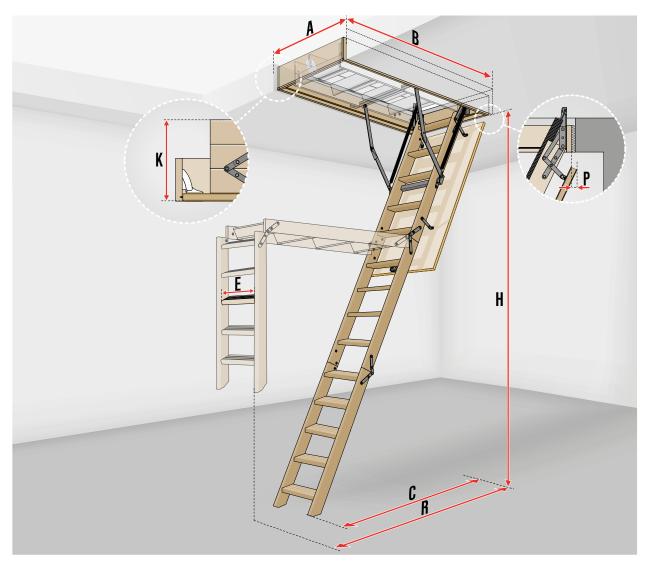


1 year warranty









		STORES' S	FOCK ONLY	AVAII	.ABLE		
LWB		22½x47*	22½x54	25x54	30x54		
Manufacturer's part number		869112	869257	869258	869259		
Ceiling height	Η	9'1 ½"					
Rough opening	AxB	22 ½"x47"	22½″x54″	25″x54″	30″x54″		
Outside frame dimensions		22"x46 5⁄8"	22″x53½″	24½″x53½″	29½″x53½″		
Internal frame dimensions		20 ½"x44 %"	20½″x44 %″	23″x44 %″	28"x51¾"		
Projection	R	60 ½"		69 ½"			
Landing space	C	44 ¾" 59 ¼"					
Folded ladder height	Κ	10 ½" 10 ½"					
Board movement after opening	Р	5⁄8"					
Distance between steps	G	9 7⁄8"					
Frame height		5 ½"					
Approx. Weight (lbs)		45	59	61	65		

Step length	Ε	13 ¼"
Step width		3 1⁄8"
Step thickness		7⁄8"

Technical specification:

maximum loading: 350lbs R-value: 3.7 hatch thickness: 1"

Available only in sizes given above. * **Available at the beginning of 2023**

WOODEN FOLDING ATTIC LADDER

LWP INSULATED









Adjusting system for the length of the ladder to the ceiling height after cutting (up to 1 ½ in.)

The **LWP** model is an insulated attic ladder made of pine wood. It allows access to otherwise unusable attic spaces without the hassle and clutter of an extension ladder. Each unit is equipped with a handrail which assists in climbing up and down the ladder.



insulated door ready for paint



up to 1½ in. ceiling height adjustment



simple installation **2** year warranty







Detachable door from click fasteners" for quick one-person installation.

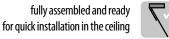


13%" thick insulated sandwich door helps reduce energy costs

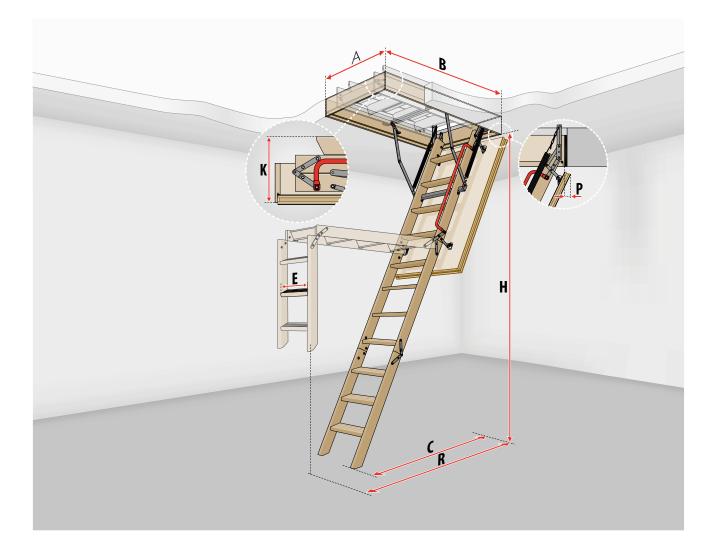
R-value with optional upper hatch



Details p.34







							1			Step length	E 13 ¾"	
										Step width	31/8"	
										Step thickness	7⁄8″	
										Distance between	97⁄8″	
LWP		22½x47	25x47	22½x54	25x54	30x54	22½ x 54	25x54	30x54	steps		
Manufacturer's part number		66801	66802	66803	66804	66809	66853	66854	66855			
Ceiling height	Η	7′5″ -	8′11″		7′10″ - 10′1″			8'8" - 10'8"				
Rough opening	AxB	22½″x47″	25″x47″	22½″x54″	25″x54″	30″x54″	22½″x54″	25″x54″	30″x54″			
Outside frame dimensions		22″x46%″	24½″x465⁄%″	22″x53½″	24½″x53½″	29½″x53½″	22″x53½″	24½″x53½″	29½″x53½″			
Internal frame dimensions		20½″x44¾″	23″x44 %″	20 ½″x51¾″	23"x51¾"	28"x51¾"	20½″x51¾″	23″x51¾″	28″x51¾″			
Projection	R	64	1/2"		72″			75½″				
Landing space	C	57	1/2″		64″			65″½″		Technical	·c	
Folded ladder height	K				10	3⁄4″				Technical s	pecificatio	
Board movement after opening	Р				1	/4″				maximum loa		
Frame height					5	1/2"				R-value: 5.9		
Approx. Weight (lbs)		59	60	67	70	75	71	74	79	insulation thickness: 1 hatch thickness: 1		

WOODEN FOLDING ATTIC LADDER











The LWT model is a super-thermo insulated attic ladder recommended for projects which stress energy-saving, especially due to heat loss. The LWT is an ideal unit for creating a barrier between a cool attic and the heated space below.



3" thick insulated door with white finish





handrail

non-slip steps





2year warranty



additional accessories available – pages 33-34



Triple gasket system guarantees an effective seal.



Upon deployment, the hinges automatically adjust the ladder to release the ladder until fully

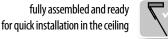




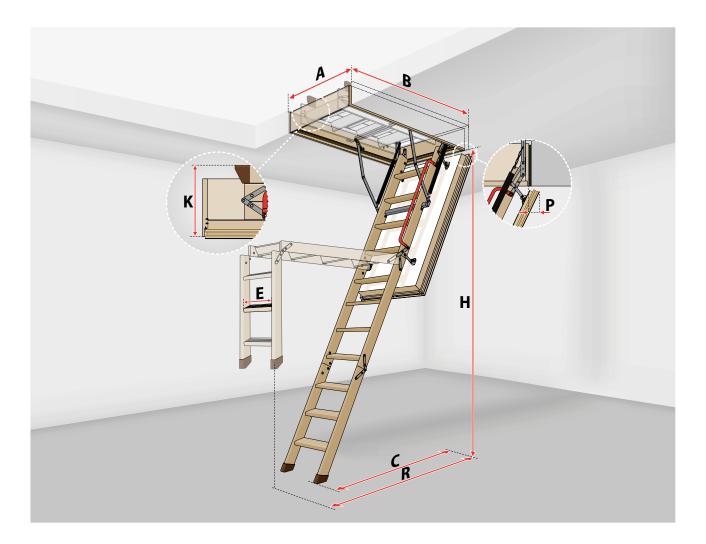
R-value with optional upper hatch



Details p.34







LWT		22½x47	25x47	22½x54	25x54	30x54	
Manufacturer's part number		66891	66892	66893	66894	66895	
Ceiling height	Н	7′5″-	7′5″ - 8′11″		7′8″ - 10′1″		
Rough opening	AxB	22½″x47″	25″x47″	22½″x54″	25″x54″	30″x54″	
Outside frame dimensions		22″x46%″	24½″x465%″	22″x53½″	24½″x53½″	29½″x53½″	
Internal frame dimensions		20½″x44¾″	23″x441⁄%″	20½″x51¾″	23"x51¾"	28"x51¾"	
Projection	R	65	1⁄2″		72″		
Landing space	C	5	8″		65″		
Folded ladder height	Κ	12½"					
Board movement after opening	Р	21⁄8″					
Frame height		85%"					
Approx. Weight (lbs)		70	73	75	80	85	

Step length	Ε	13¾″
Step width		31⁄8″
Step thickness		7⁄8″
Distance between steps		91⁄8″

Technical specification:

maximum loading: 350 lbs R-value: 12.5 insulation thickness: 2 %" hatch thickness: 3 %"

WOODEN FOLDING ATTIC LADDER

LWF 30 **FIRE-RATED**



Adjusting system for the length of the ladder to the ceiling height after cutting (up to 1 ½ in.)

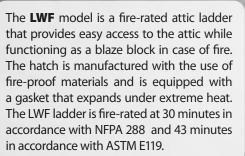


9.5 **R**-value

max 350 Ibs



5()



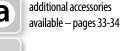


fire-resistant insulated door with white finish



three weather seal gaskets





up to 1½ in. ceiling

height adjustment



Minimal space between top step of the ladder and attic floor – step into your attic with ease.







R-value with optional upper hatch

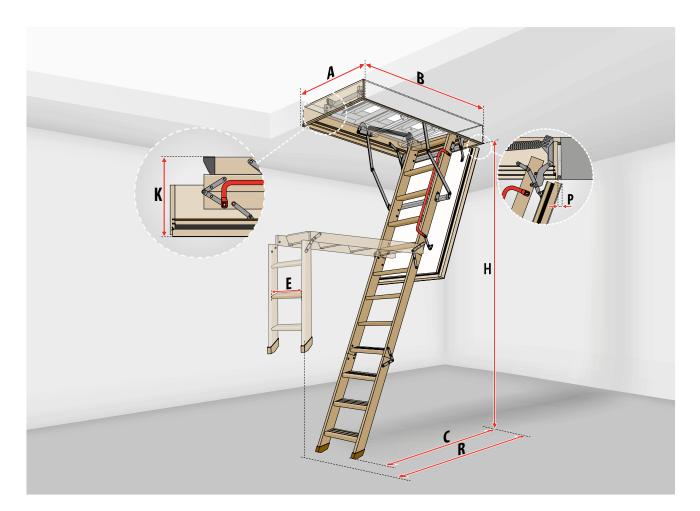


Details p.34

fully assembled and ready

for quick installation in the ceiling





LWF		22½x47	25x47	22½x54	25x54	30x54	
Manufacturer's part number	Manufacturer's part number		869717	869718	869719	869720	
Ceiling height	Н	7′5″ - 8′11″		7	"		
Rough opening	AxB	22½″x47″	25″x47″	22½″x54″	25″x54″	30″x54″	
Outside frame dimensions		22″x465⁄8″	24½″x465%″	22″x53½″	24½″x53½″	29½″x53½″	
Internal frame dimensions		20½″ x44%″	23″x447⁄8″	20½″x51¾″	23"x51¾"	28"x51¾"	
Projection	R	6	7″	73¼″			
Landing space	C	5	9″		65¾″		
Distance between steps		97	/8″		10½″		
Folded ladder height	K	15″					
Frame height		8 5%"					
Board movement after opening	Р	15⁄8″					
Approx. Weight (lbs)		98	104	105	110	123	

Step length	Ε	13%″
Step width		31⁄8″
Step thickness		7⁄8″

Technical specification:

maximum loading: 350 lbs R-value: 9.5 insulation thickness: 2 %" hatch thickness: 3 %"

Metal Folding Attic Ladders

PURSUIT

CREATIVITY

--

rin t

BOX

The ladder box is made of wood. Wooden frame for insulated models contains a peripheral gasket situated within the milled section of the box. Once the hatch is closed this gasket ensures proper tightness of the entire unit. Specially designed frame allows fast and convenient trim installation.

hatch unloading mechanism

Operation of the attic ladder is **significantly improved** because of FAKRO's unique unloading mechanism. Once unlocked, the hatch opens slowly without any potential danger to the user. Once fully opened, this mechanism will also hold the hatch in position, preventing it from slamming shut. **No sudden movements**.

HARDWARE

The patented corner hinge re-enforces the rigidity of the box and prevents any changes in the diagonal lengths. Thanks to this th

diagonal lengths. Thanks to this, the box is not affected by any deformations and can be operated trouble free once installed.

HATCH

The attic ladder hatch can be non-insulated (made of particle board) or insulated (sandwich type). The applied thermal insulation protects against heat loss.

The specially embossed pattern on the step surface protects the user from accidental slipping while using the ladder.

STEPS

PLASTIC ENDS

Made of plastic, these protect the floor surface from scratches and in addition **add to** the overall ladder **stability**.

LADDER

The unique design and structure of the metal ladder and double connection of the ladder hinges guarantees high ladder strength. The ladder elements are powder-coated with hard wearing lacquer in grey RAL 7022.

METAL FOLDING ATTIC LADDER





The **LMB** model is a basic insulated metal attic ladder. It features standard accessories for the user to access space in the attic all while equipped with a handrail, insulated door and a weather seal gasket to reduce heat loss.



insulated door ready for paint



peripheral gasket



handrail

a



available – pages 33-34

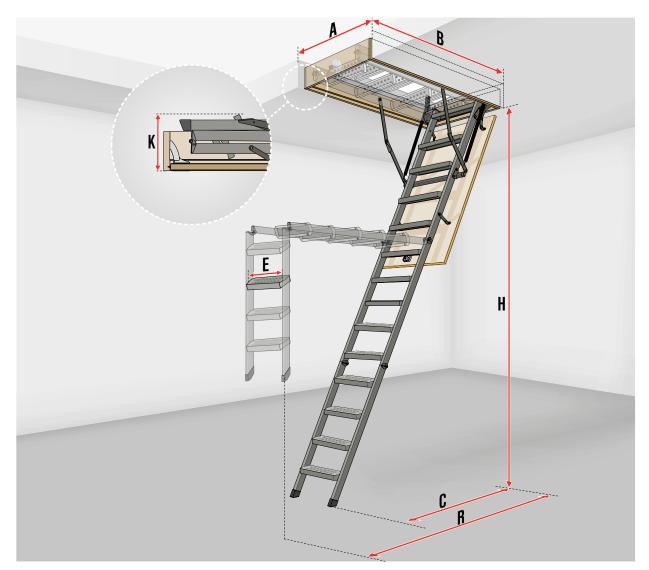
additional accessories



fully assembled and ready for quick installation in the ceiling







		STORES' STOCK ONLY	AVAII	.ABLE		
LMB		22½x54	25x54	30x54		
Manufacturer's part number		869263	869264	869265		
Ceiling height	Η	7'8" - 10'3"				
Rough opening	AxB	22½"x54"	25"x54"	30"x54"		
Outside frame dimensions		22"x53½"	24½"x53½"	29½"x53½"		
Internal frame dimensions		20½"x51¾"	23"x51¾"	28"x51¾"		
Projection	R		71 ½"			
Landing space	C		61½"			
Folded ladder height	Κ		91⁄2"			
Distance between steps		97⁄8"				
Frame height		5½"				
Approx. Weight (lbs)		69 71 76				
Step length	Ε	13¼"				
Step width			31⁄8"			

Technical specification:

maximum loading: 375 lbs R-value: 3.7 hatch thickness: 1"

METAL FOLDING ATTIC LADDER









The LMS model is a metal, three section folding attic ladder featuring an insulated, beige, paintable hatch door. The ladder is mounted to the door with brackets that allow minor adjustments to the length of the ladder and the space between the ladder and the door.



insulated door ready for paint



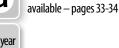


non-slip

steps









up to 1½ in. ceiling height adjustment

additional accessories

R-value with optional upper hatch

13/8" thick insulated

reduce energy costs.



Details p.34



lms – Diagram





ATTIC LADDER DIMENSIONS

				Ο		
LMS		22½x47	25x47	22x54	25x54	30x54
Manufacturer's part number		66865	66866	66867	66868	66869
Ceiling height	Η	7'2″-8'11″		7'11″ – 10'1″		
Rough opening	AxB	22½″x47″	25″x47″	22½″x54″	25″x54″	30″x54″
Outside frame dimensions		22″x465⁄8″	24½″x465%″	22″x53½″	24½″x53½″	29½″x53½″
Internal frame dimensions		20½″x44¾″	23"x44 %"	20½″x51¾″	23″x51¾″	28½″x51¾″
Projection	R	65	1⁄2″		73¼″	
Landing space	C	5	56" 62¼"			
Folded ladder height	K	10″				
Frame height		51⁄2″				
Approx. Weight (lbs)		62	64	70	72	75
Available only in sizes given abs						

Available only in sizes given above.

Step length	Ε	13¾″
Step width		31⁄8″
Distance between steps		97⁄8″

Technical specification:

maximum loading: 350 lbs R-value: 5.2 insulation thickness: 1 ½" hatch thickness: 1 ¾"

METAL FOLDING ATTIC LADDER 12 FT. CEILING



5.2 R-value

> 375 Ibs

max



Adjusting system for the length of the ladder to the ceiling height after cutting (up to 1 % in)



he use of special blocks secure ladder segments to prevent accidental folding.

The **LMP** model is a metal, three section, folding attic ladder designed for high ceilings, up to **12ft.** It contains an unloading mechanism hidden in the handrail that supports the folding and unfolding of the ladder.

FEATURES

insulated door with white finish



weather seal gasket



steps

gasket ladder unloading mechanism, built into the handrail





2 year warranty

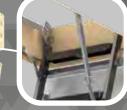
12ft

 \uparrow

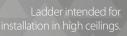
up to 1½ in. ceiling height adjustment

intended for installation in high ceilings

additional accessories available – pages 33-34



Last step placed high in the box ensures a comfortable entrance to the attic.



12ft

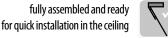


Safe use and unfolding of the ladder thanks to a brake mechanism incorporated into the handrail.

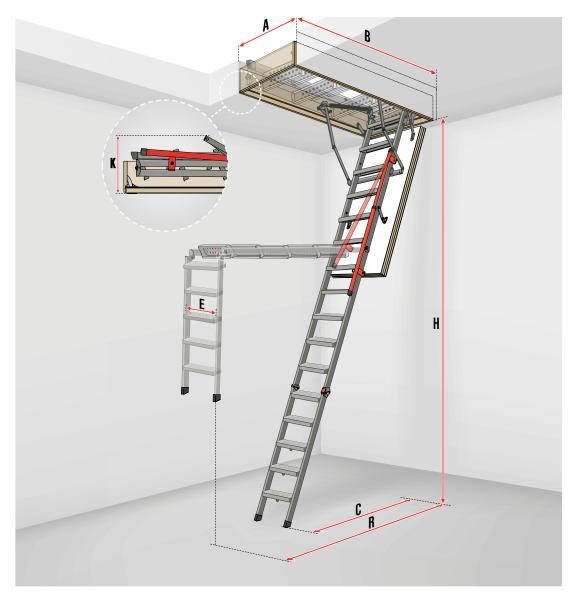
R-value with optional upper hatch



Details p.34







LMP		22½ x 56½	25 x 56½	30 x 56½		
Manufacturer's part number		869331 869332 86933				
Ceiling height	Η	9'10" - 12'				
Rough opening	AxB	22 ½″ x 56 ½″	25″ x 56 ½″	30″ x 56 ½″		
Outside frame dimensions		22″ x 56″	24 ½″ x 56″	29 ½″ x 56″		
Internal frame dimensions		20 ½" x54 ¾"	22 7⁄8″ x54 ¾″	28" x 54 ¾"		
Projection	R	77 1⁄8″				
Landing space	C	57 1⁄8″				
Folded ladder height	K	12 5⁄8″				
Frame height		7 1⁄8″				
Approx. Weight (lbs)		102	108	114		

Step length	Ε	13¾″
Step width		31⁄8″
Distance between steps		9½″

Technical specification:

maximum loading: 375 lbs R-value: 5.2 insulation thickness: 1 ½" hatch thickness: 1 ¾"

METAL FOLDING ATTIC LADDER

LML LUX INSULATED





The LML model is a metal, three section, folding attic ladder designed to ensure the highest comfort of use. The installation process is simplified by an easy adjustment of the ladder's length to the ceiling height.



attic, the attic ladder's box has been equipped with an additional



retractable feet allow the length of the ladder

R-value with optional upper hatch



Details p.34



fully assembled and ready for quick installation in the ceiling

insulated door with white finish

FEATURES







telescopic plastic ends





ladder unloading mechanism, built





a



2year warranty

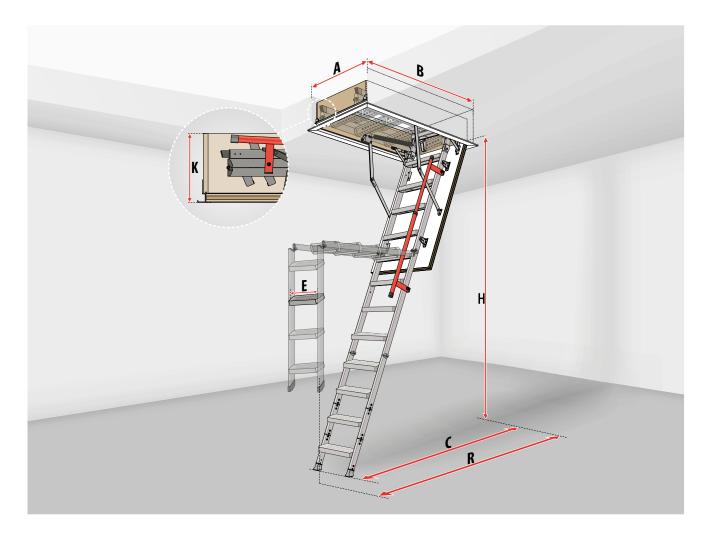
white metal trim additional accessories available – pages 33-34

adjusting system for the length of the ladder to the ceiling height

quick installation

in the ceiling – installation brackets





LML		23 ½ x 47	27 ½ x 47	27 ½ x 51
Manufacturer's part number		862401	862411	862453
Ceiling height	Η	7' 7 ¾″·	- 9' 2 ¼″	8'4¾"-10'3"*
Rough opening	AxB	23 ½″ x 47″	27 ½″ x 47″	27 ½″ x 51″
Outside frame dimensions		23″ x 46 ¾″	27" x 46 ¾"	27″ x 50 %″
Outside frame dimensions including trim		25 ½″ x 48 ¼″	28 ½″ x 48 ¼″	28 ½″ x 52 ¼″
Internal frame dimensions		21 %" x 44 %"	25 ¼″x 44 ¾″	25 ¼″ x 48 %″
Projection	R	65	3⁄4″	70″
Landing space	C	47	1⁄4″	52 ¼"
Folded ladder height	K		12 ½″	
Frame height			12 ½"	
Approx. Weight (lbs)		119	121	128

Step length	Ε	13¾″
Step width		51⁄8″
Distance between steps		91⁄8″

Technical specification:

maximum loading: 350 lbs R-value: 5.2 insulation thickness: 1 ½" hatch thickness: 1 ¾"

* H max - 10'3" (stile ends maximum extension)

METAL FOLDING ATTIC LADDER



LMF 60 **FIRE-RATED**





60





The LMF60 model is a new generation attic ladder that provides access to unused space in the attic and at the same time functions as a fire protection for 60 minutes (1 hour rating in accordance with NFPA 288 and ASTM E119-14).



metal steps



up to 1½ in. ceiling height adjustment



warranty

telescopic handrail (11'10'' max. ceiling ladders)



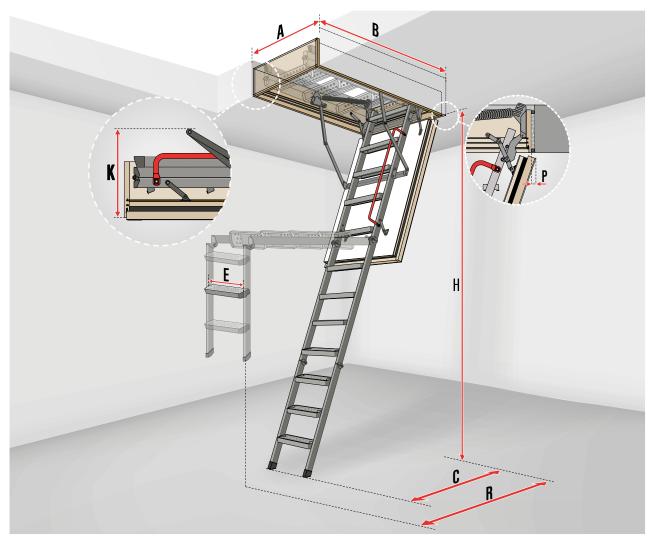




Thermal gasket expands in high temperatures and seals the door to block smoke and flames.







LMF 60		22½x54	25x56½	30x56½
Manufacturer's part number		869235	869238	869239
Ceiling height	Η	8′1″-10′1″	9'7½"- 11'10"	
Rough opening	AxB	22½″x54″	25"x56½″	30″x56½″
Outside frame dimensions		22″x53½″	24½″x56″	29½″x56″
Internal frame dimensions		20½″x51¾″	227⁄8″x54¾″	28"x54¾"
Projection	R	72″	76	5″
Landing space	C	61″	6	1″
Folded ladder height	K		16″	
Board movement after opening	Р	1¾″		
Frame height			81⁄8″	
Approx. Weight (lbs)		111	143	150

Step length	Ε	13¾″
Step width		31⁄8″
Distance between steps		9 1/8 - 9 1/2

Technical specification: maximum loading: 350 lbs R-value: 8.9 insulation thickness: 3 ½" hatch thickness: 3 ¾"



BOX

The box can be made of wood or metal. It is equipped with a **peripheral gasket (LST)** and **trims as standard**. Proper box structure allows for quick setting of the ladder in the ceiling and facilitates correct leveling.

Hatch Unloading Mechanism

Operation of the attic ladder has been **significantly improved** because of FAKRO's unique unloading mechanism. Once unlocked, the hatch opens slowly without any potential danger to the user. Once fully opened, this mechanism will also hold the hatch in position, preventing it from slamming shut.

HARDWARE

The patented corner hinge reinforces the rigidity of the box and prevents any changes in the diagonal lengths. Thanks to this, the box is not effected by any deformations and can be operated trouble free once installed.

HATCH

The scissor attic ladder comes equipped with either insulated or fire-resistant hatches. Insulated hatches are made of wood and fire-resistant hatches are made of metal. The external hatch surface is white and smooth without any visible fixing elements.

STEPS The specially embossed pattern

on the step's surface protects the user from accidentally slipping while using the ladder.

LADDER

The scissor ladder structure makes it possible to easily adjust its length to the room height **without the need for cutting**. Additionally, this allows the ladder to be folded into a smaller size to fit smaller ceiling openings (the smallest ladder size being 22"x31"). The elegant and modern style of the scissor attic ladder is achieved by the "S"-shaped stringers which may also serve as handrails.

METAL SCISSOR ATTIC LADDER





The LST model is a scissor style attic ladder with a white, insulated hatch. Its construction takes up less space and requires less room to unfold. Making it perfect for small spaces (the smallest ladder size is 22"x31").





insulated door



a

2 year

warranty



 installation brackets additional accessories

available – pages 33-34



Wooden box with metal trim and quick-installation brackets included



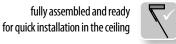


Adjustable length by adding or detaching

R-value with optional upper hatch

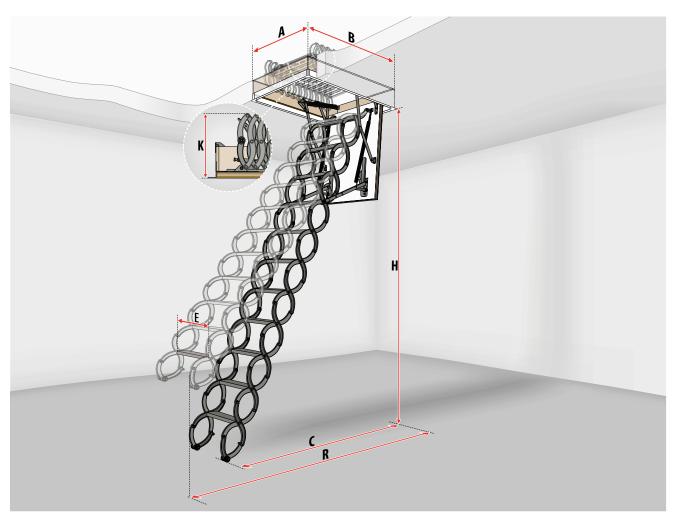


Details p.34



lst – Diagram





ATTIC LADDER DIMENSIONS

LST Manufacturer's part number		22½x31½ 66875	27½x31½ 66876	22½x47 66820	25x47 66821	22½x54 66822	25x54 66823	30 ½ x 54 66877	1 s remo		1 additio step	nal	2 additional steps
Ceiling height	Н				8'2¾″ – 9'2¼	"			7'6½″	8′2¾″	9′2¼″ 9′1	01⁄8″	9'101%" 10'10
Rough opening	AxB	22½″x31½″	27½″x31½″	22½″x47″	25″x47″	22½″x54″	25″x54″	30 ½″x54″					
Outside frame dimensions		22″x31¼″	27″x31¼″	22″x465⁄%″	24½″x465⁄8″	22″x53¾″	24½″x53¾″	30″x53¾″					
Outside frame dimensions including trim		24¾″x33¼″	291⁄8″x331⁄4″	24¾″x49″	26¾″x49″	24¾″x55¾″	26¾″x55¾″	317%"x55 ¾"	Lado	ler dim	ensions are	equa	I to all sizes.
Internal frame dimensions		20½″x29¼″	251⁄8″x291⁄4″	20½″x44¾″	227/8″x44¾″	20½″x51%″	22 ⁷ ⁄⁄8″x51 ³ ⁄4″	28"x51 ¾"					
Projection	R				59″				55	1⁄8″	63″		67″
Landing space	C				57½" – 52¾	"			531⁄8″	51%"	59″ 57	'½″	63″ 59″
Folded ladder height	K				15″								
Frame height					75⁄8″					Te	chnical	spec	ification:
Approx. Weight (lbs)		84	92	88	93	97	99	110		mavi	mum lo	din	g: 350 lbs
Step length	Ε	11%″	15″		11	7⁄8″		15″				R-v	value: 5.2
Step width					31⁄8″				insulation thickness: 1 ½″ hatch thickness: 1 ¾″				
Possibility of adding additional steps		LSS-31	LSS-38		LSS	5-31		LSS-38			natin		CJJ: 1 /0

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METAL SCISSOR ATTIC LADDER





The LSF model is a fire-rated, scissor style attic ladder made up of all metal parts. Ladder's hatch is equipped with a gasket that expands under extreme heat. The LSF ladder is fire-rated at El,60 minutes as per EN13501-2.

A gasket lining the lid expands under extreme heat, sealing the unit to prevent any access of fire or smoke.



Adjustable length by adding or detaching a step.



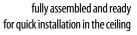


steps

non-slip

can add or detach steps

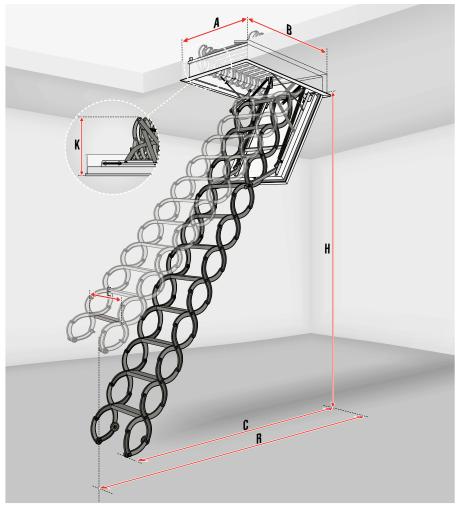
adjusting system for the length of the ladder to the ceiling height





LSF - DIAGRAM





ATTIC LADDER DIMENSIONS

				1 step n	emo
LSF		22½x47	25x47		
Manufacturer's part number		66858	66859		
Ceiling height	Η	8'10¼"	- 9′10⅓″	7'10½″	8'
Rough opening	AxB	22½″x47″	25″x47″		
Outside frame dimensions		22″x46%″	24½″x465%″		امما
Outside frame dimensions including trim		24½″x49″	27"x49"		Lad
Internal frame dimensions		20"x45¼"	22½″x45¼″		
Projection	R	67″-	- 71″	65″	(
Landing space	C	65″-	- 51¼″	39¾″	5
Folded ladder height	Κ	17	'3⁄4″		
Frame height		5	1/2″		
Approx. Weight (lbs)		138	154		
Step length	Ε	11%″	12%″		
Step width		3	1⁄8″		
Possibility of adding additional steps		LSS-30	LSS-32		
Available only in sizes given ab					

1 step re	emoved	standard ladder (1	lenght of 10 steps)	1 additic	onal step
7'10½″	8'10¾″	8'10¾″	9'101⁄8″	9'101⁄8″	10'6″

Ladder dimensions are equal to all sizes.

65″	65″	67″	71″	721/8″	82¾″
39¾″	551⁄8″	65″	51¼″	47¼″	551⁄8″
39%"	551%"	65″	51¼″	47¼″	551%"

Technical specification:

R-value: 3.2 maximum loading: 350 lbs fire-resistance: El₂ 60 minutes insulation thickness: 1 ½" hatch thickness: 2 ½"

KNEE WALL ACCESS DOORS

DWK

The DWK Knee wall access door is intended to be built into L-shaped walls. Thermo-insulating parameters (R-value: 5.2*) along with increased air tightness keeps heat-loss to a minimum. Knee wall access door may be installed in right or left opening versions. Trims are included in the standard configuration.

* manufacturer's internal calculations

DWK KNEE WALL ACCESS DOOR		21 x 31	27 x 35	
Rough opening [in]	AxB	21 ½ x 31 ¼	27 ½ x 35 ¼	
Frame external dimensions [in]	WxL	21 x 31	27 x 34 ¾	
Frame internal dimensions [in]	MxN	19 x 28 ¾ 24 ¾ x 32 ⅔		
Frame depth [in]	S	3 3⁄8		
Frame thickness[in]	Z	1		



DWT

The DWT Knee wall access door is new and features an energy efficient design. The $2 \frac{1}{2}$ " thick sash is completely filled with thermo-insulating material which provides an excellent barrier resulting in reduced heat-loss (R-value: 9.5*). As standard, the door is equipped with a handle and finishing lining. DWT Knee wall access doors may be installed in right or left opening versions.

* manufacturer's internal calculations

** special order item



DWF

The DWF fire-rated, Knee wall access door provides access to otherwise unused spaces under closed off stairwells and crawl spaces. It is fire-resistant from both sides at 45 minutes as per EN13501. The white, 2 ½" thick sash is thermally insulated providing an excellent barrier reducing heat loss (R-value 8.9*). DWF Knee wall access doors may be installed in right or left opening versions.

* manufacturer's internal calculations



Folding Attic Ladder Optional Accessories

PLASTIC ENDS **LXS**

Plastic ends give an aesthetic look to the ladder's appearance. The design and shape also enhance the ladder's stability. One set contains two pieces.

Note: available for all sizes LWP, LWF, LWT, LWB.

METAL HANDRAIL LXH

The red-painted handrail is mounted on the angled brackets of the ladder. It can be mounted on either or both side of the ladder, making climbing easier. The handrail is available in one length:

29 1/2" for LWP, LWT, LWF, LMS, LWB, LMB.

Note: while ordering handrail please provide attic ladder model.

LADDER BALUSTRADE **LXB-U**

The attic balustrade protects the user from falling through the opening in the attic floor. It also helps the user climb back down the ladder. The balustrade is made of pine wood and available in only one size, 30"x54". It can be cut if needed for a perfect fit for smaller rough openings. Height of the balustrade is 43 ¼".

Note: compatible with all attic ladders.

INSTALLATION BRACKETS **LXK**

Installation brackets facilitate attic ladder installation in the ceiling. Note: available for ladder models: LWB, LWP, LWT, LWF, LMB, LMS, LMP.

Already included in LST, LSF and LML.

Installation brackets	LWB	LWP	LWT	LWF	LMB	LMS	LMP
Maximum ceiling thickness	13¾"	13¾"	17"	17"	13¾"	13¾"	15¾"

BOX EXTENSION LXN-B

The box extension matches perfectly with the box of the installed ladder; extending the aesthetic look of the ceiling opening. The standard box height is 4" and made of pine wood. Available for ladders LWB, LWP, LWT, LWF, LMB, LMS, LML, LST.

Note: while ordering the LXN-B please provide ladder model and size.











UPPER HATCH LXW-B

The upper hatch is a great solution to improve insulating parameters of an attic ladder. R-value can be improved by 100% for some ladder models (details are shown on the specific model page). In addition, the upper hatch also prevents dust from accumulating on the hatch and steps of the closed attic ladder. The height of the upper hatch box is 7 ¾" and the hatch thickness is 1%". Available for ladders LWB, LWP, LWT, LWF, LMB, LMS, LML and LST. For the LST model ladder, the extension box LXN should be installed prior to the upper hatch.

Note: while ordering the LXW-B please provide ladder model and size.

HANDLE LXZ

The LXZ handle allows the user to close the LXW-B upper hatch from the attic side e.g. during maintenance work in the attic or roof.

ADDITIONAL STEP LSS

To increase the length of the **LST** ladder you can add an extra step:

LSS-38 for sizes: 27½ x 31½ and 30½ x 54 LSS-31 for sizes: 221/2 x 31, 22½ x 47, 22½ x 54, 25 x 47, 25 x 54

ADDITIONAL STEP

additional step is 11%".



To increase the length of the **LSF** ladder you can add an extra step:

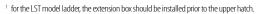
LSS-30 for size 22 x 47. LSS-32 for size 25 x 47.





Note: available for ladder models LWP, LMS, LWB.

	LWB	LMB	LWP	LWT	LWF	LMS	LMP	LML	LST	LSF
Optional accessories										
Ladder balustrade LXB-U	\checkmark	✓	✓							
Metal handrail LXH	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	_	_	_	—
Installation brackets LXK	\checkmark	—	—	—						
Wooden trim LXL-W	_	—	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	_	_	—
PVC trim LXL-PVC	—	—	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	—	—	—
Plastic ends LXS	\checkmark	—	\checkmark	\checkmark	\checkmark	—	_	—	_	—
Box extension LXN-B	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	—	\checkmark	\checkmark	—
Upper hatch LXW-B	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	_	\checkmark	✓1	_
Additional step LXT	\checkmark	—	—	—	_	\checkmark	—	—	—	—









An additional step makes climbing the ladder easier. While it increases the comfort and safety of access to the attic it is especially recommended in situations where the upper hatch is installed on the attic ladder's box or in a thick ceiling. The LXT step is installed between the last step of the ladder and the floor of the attic. Standard width of the LXT

FLAT ROOF ACCESS DOOR



The DRL roof access door is an innovative product that provides safe and comfortable access to the flat roof. DRL 27x59 can be combined with specially designed FAKRO LML ladder.





- mounted on the roof surface
- the whole structure is insulated



- can be installed in the opening under the DRL roof access door
- gas piston supports unfolding and folding the ladder
- additional upper tread for safe step-up
- wide 5" (13cm) anti-slip treads



FLAT ROOF ACCESS DOOR DRL DIMENSIONS



IMI	+	+	+		
Attic ladder size	23½" x 47"	23½" x 47" 27½" x 47"			
Ceiling height	9' 2	9' 2 ³ /4"			

Features:

- fully assembled product
- the frame is constructed of multi-chamber PVC profiles filled with insulation material
- insulated sash equipped with a rubber seal ensures perfect thermal insulation performance
- opens up to 60°. Gas springs facilitate opening and closing, and the sash can be left open
- anti-slip tape on the base ensures safe access to the flat roof
- can be mounted on an additional insulated XRD base with a height of 6" (15 cm) for installation in green and living roofs
- option to install an additional ZBR lock which protects against accidental closure of the sash
- suitable for roof pitches between 0° and 5°

best match











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