



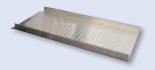




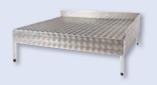




# **Wheelchair ramps - content**



**Step ramps -** variants 1 – 5



**Platforms for step ramps** 



**Door sill ramps** single section



**Balcony- and terrace door ramps** 2- and 3-section



**Section ramps** with and without railings



**Platforms for panel ramps** with and without railings



**Telescopic- and ascending ramps** for variable use



**Special ramp solutions** 



**Information** ramp calculation, order forms







Step ramp - variant 1 With support and wheel guide curbs (with HMV No. 22.50.01.0058)\*

Ramp length up to 300 cm

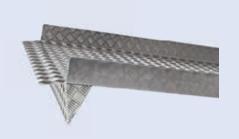
\* The HMV No. is valid only for ramps of variant 180 cm wide and up to 230 cm long max.





**Step ramp - variant 2**Without support, with props and wheel guide curbs

Ramp length up to 300 cm





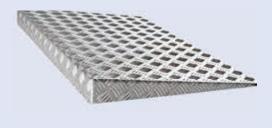
**Step ramp - variant 3** With support, props and wheel guide curbs

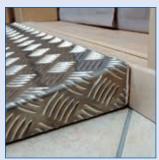
Ramp length up to 300 cm





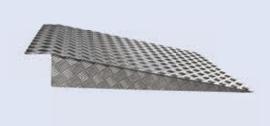






**Step ramp - variant 4**Without support, wedge-shaped Without wheel guide curbs

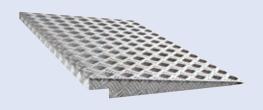
Ramp length up to 300 cm

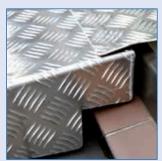




**Step ramp - variant 5**With support, wedge-shaped without wheel guide curbs

Ramp length up to 300 cm





Step ramp - "alternative" variant with step section Without support, for several steps

Ramp length up to 300 cm





Platforms for step ramps

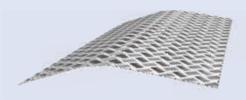




# Balcony- and terrace door ramps - single section



## Single-section models without wheel guide curbs



Art. No.	Ramp length	Side length	Weight
eTSR40	40 cm	15 cm	app. 2,5 kg
eTSR70	70 cm	30 cm	app. 4,0 kg
eTSR100	100 cm	45 cm	app. 6,0 kg



Bridging of door sills in which the middle piece lies on the ramp.

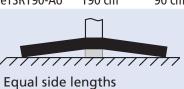


- Suitable for smooth door sills
- Unsuitable for terrace doors
- Width and height as per specification
- Max. load up to 120 kg

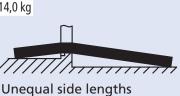
#### Single-section models with wheel guide curbs



Art. No.	Ramp I.	Side I.	Weight
eTSR70-Ao	70 cm	30 cm	app. 5,5 kg
eTSR100-Ao	100 cm	45 cm	app. 7,5 kg
eTSR130-Ao	130 cm	60 cm	app. 9,0 kg
eTSR160-Ao	160 cm	75 cm	app. 12,0 kg
eTSR190-Ao	190 cm	90 cm	app. 14,0 kg







This variant of the sill ramp remains suspended over the door panel and therefore, offers optimum protection against damage. The lateral upstand provides stability and overrun protection simultaneously.

- Ideal for door panels, if the ramp is to stay in position
- Width and height as per specification
- Unequal side lengths possible
- max. load up to 250 kg

**Further dimensions on request** 





## **Balcony- and terrace door ramps –** 2-section



Different ramp combinations are possible, depending on the inclination and step height. Extensive consultations required in advance for customized solutions.

We will create a customised offer on the basis of your specifications and dimensions.







This ramp can be removed easily, e.g., to shut the door.

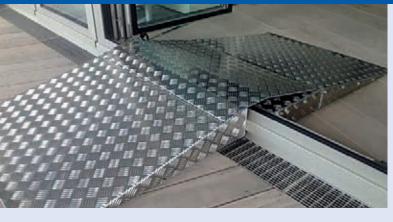
The ramp element located in the drawing room is removed or added according to requirement. The section lying outside can stay.

- Ideal for all sill types
- Width and height as per specification
- Max. load up to 250 kg





## Balcony- and terrace door ramps - 3-section







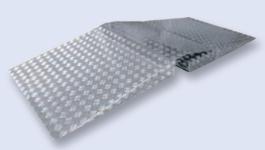


## 3-section models without wheel guide curbs

The 3-section ramp system is ideal for locations not exposed to force, or where the handling of an entire ramp is not possible, or the inner and outer ramps must remain in position.

Only the small and light middle piece is added or removed as per requirement. The door can be closed directly over the ramp.

This ramp model can be used only under certain preconditions. Please send us the concrete dimensions and specifications along with your query. We will then develop your customised solution.





- For "single persons" without assistance
- Door closes/opens over the ramp
- Only one bridging ramp/- sheet (over the sill) is removed or added
- Suitable for all sill types
- Width and height as per specification
- Max. load up to 250 kg





# Section ramps and platforms – for long ascents and descents



## Panel ramps

Large ramp length in connection with heavy wheelchairs, e.g., with electrical drive, require a change in the production process. Aluminium panels offer flexible length and high load-bearing capacity.





- Ramps with load up to 400 kg
- With railings on one side
- With railings on both sides

For public areas according to DIN 18040 (medical practices etc. and public buildings)

## **Platforms for panel ramps**

The ideal supplement for our panel ramps. Space-saving solutions over corners that can also replace existing platforms. The supporting legs can equalize uneven surfaces.





- With or without railings
- Height can be adjusted +/- 5 cm

For public areas according to DIN 18040 (medical practices etc. and public buildings)





# Telescopic ramps – for variable use



Our telescopic ramps can be adjusted longitudinally and held in any position by virtue of self-retention.

The inner edges in the support area are sloped for vehicles with little floor freedom. On





Art. No.	Ramp length*	Ramp width	Track width Weig		Load			
2-section model:								
TR130	80-137 cm	25 cm	19 cm	9 kg /pair	250 kg /pair			
TR195	110-198 cm	25 cm	19 cm	13 kg /pair	250 kg /pair			
TR310	170-317 cm	25 cm	19 cm	22 kg /pair	200 kg /pair			
3-section model:								
TR290	113-287 cm	26 cm	18 cm	23 kg /pair	200 kg /pair			

<sup>\*</sup>Total length incl. support • Support length: 10 cm • Lateral height: 4.5 – 6cm

- Longitudinally adjustable
- Anti-skid coating
- Bottom side with rubbercoating
- Max. load up to 250 kg (see table below)
- With lateral supporting strap
- Excellent grab hold through self-retention

Auxiliary resource No: **22.50.01.0055** 





## Telescopic ramps – for heavy weights

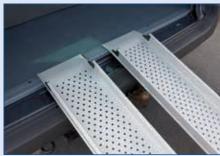


## Telescopic ramp with perforated panels

Longitudinally adjustable telescopic ramps. Self-retention in any ramp position. The inner edges in the support area are sloped for vehicles with meagre floor freedom and the bottom-side rubber coating prevents skidding of the ramp.

An anti-skid perforated panel makes this ramp type optimal for use in wet conditions.





Art. No.	Ramp length*	Ramp width	Track width	Weight	Load		
2-section mo	odels:						
LTR204	120-204 cm	24 cm	19 cm	13 kg /pair	320 kg /pair		
3-section models:							
LTR290	120-290 cm	24 cm	17 cm	19 kg /pair	260 kg /pair		

<sup>\*</sup> Total length incl. support • Support length: 6 cm • Lateral height: 6 cm

- Longitudinally adjustable
- Anti-skid perforated section
- Rubber coating on bottom side
- Max. load up to 320 kg (See table below)
- With lateral supporting strap
- Excellent grip due to self-retention

Resource No: **22.50.01.0054** 





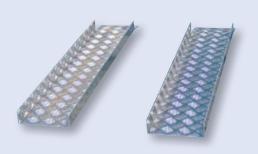
# Ascending ramps – light and handy



## **Ascending ramp**

The aluminium panels ensure easy handling and can support heavy loads by virtue of their special shape.

Thanks to the weight, they can also be placed in other positions or removed quickly.





- Load up to 250 kg
- With overrun protection
- Anti-skid

Art. No.	Ramp length*	Support length	Ramp width	Weight	Load
Ascending ramps:					
AFR100	100 cm	10 cm	20 cm	4,5 kg /pair	250 kg / pair
AFR150	150 cm	10 cm	20 cm	6,5 kg /pair	250 kg / pair
AFR200	200 cm	10 cm	20 cm	8,5 kg /pair	250 kg / pair

<sup>\*</sup> Total length including support



C-Lehmann
Rollstuhlrampen & Hebelifte

## **Special ramp solutions –** doesn't fit is just not possible!







### Sill ramp with folding mechanism

In this case example, getting a stable ramp solution for the existing electric wheelchair was very important for the senior citizen couple, which despite high load bearing capacity, is also flexible by design.

Inadequate physical force and narrow space ratios led to the development of this special ramp: The optimum solution therefore, was a folding mechanism supported by a Bowden cable and a traction loop.





- Folding mechanism
- Bowden cable for optimum force distribution during folding operation
- Particularly long and "soft" outer ascent
- Ramp can remain in the lying position





## **Ramp calculation**

## HOW STEEP CAN A RAMP BE?

Determining the inclination is a very special factor. Because the inclination of a ramp and the required ramp length are based on different factors:

- Does the person operate the wheelchair on his own or is it pushed by a companion?
- How strong are the persons?
- What is the load the ramp must support?
- How high is the step or sill?
- How much space is available ?

The requirements of a ramp are described in detail in DIN 18040. The most important factor in this regard is the inclination of a ramp, which should normally not exceed 6%.

#### **Problem:**

This naturally presupposes a corresponding ramp length. A ramp length which however, is frequently not available in the required form.

#### **Approach:**

Assuming that the wheelchair is pushed by a companion, or an electric drive is available, the length of the ramp can also be shorter.

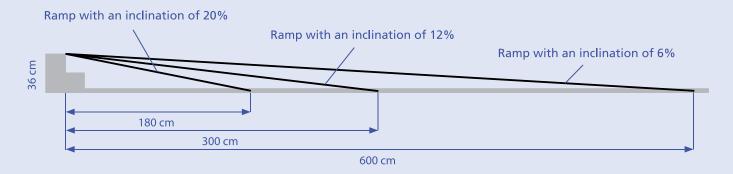
In this connection, the following inclination values have proved to be meaningful in practice:



When exceeding an incline of 20%, safe movement can no longer be guaranteed. There is a risk that the wheelchair may tip over, or that the footrests touch the ground. Ramps in public areas must always be implemented in accordance with DIN norms.

Therefore, please check your requirements thoroughly in advance. Only a properly chosen incline guarantees proper daily functioning of the ramp later.

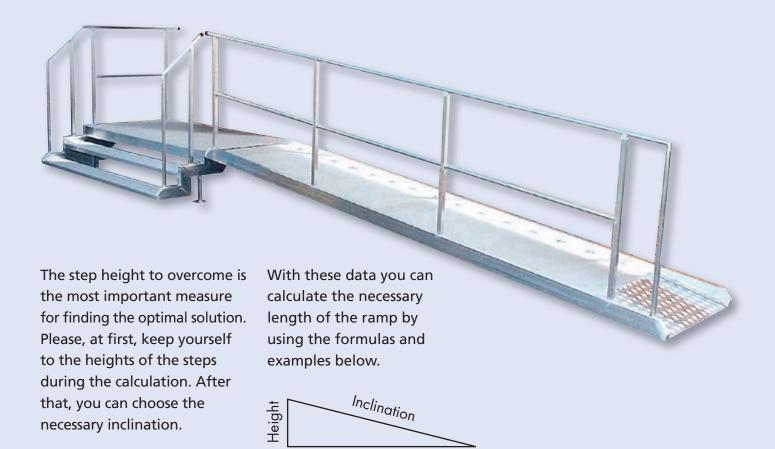
• Self-operated:
• A strong self-operator:
• A person pushes a rollator: max. 12 %
• A strong person pushes the wheelchair:max. 12 %
• A strong person pushes the wheel chair:13 % - 19 %
• Electrical drive:





# **Ramp calculation**

### HOW BIG SHOULD A RAMP BE?



### **Length calculation**

$$Length = \frac{Height \times 100}{Inclination}$$

#### **Example:**

The staircase has 2 steps of 18 cm each = 36 cm total height.
The inclination should be 12 %.

$$\frac{36 \text{ cm x } 100}{12 \text{ %}} = 300 \text{ cm}$$

#### **Inclination calculation**

Length

Inclination = 
$$\frac{\text{Height x 100}}{\text{Length}}$$

#### **Example:**

The step is 8 cm high. The ramp should be 70 cm long.

$$\frac{8 \text{ cm x } 100}{70 \text{ cm}} = 11,4 \%$$

### **Height calculation**

Height = 
$$\frac{Inclination \times Length}{100}$$

#### **Example:**

The Ramp is 150 cm long. The inclination should be 12%.

$$\frac{12\% \times 150 \text{ cm}}{100}$$
 = 18 cm



Name				Rollstuhlrampen & Hebeli
Street, House N	0.			Contact
Postcode, City, (	Country			E-mail
Telephone / Fax	:			Commission
☐ <b>Variant</b> Only with	1: support (without props)		☐ Variant 2: Without supp	port, with props
		B	H H	B
☐ Variant 3 With support	E  rt and props		☐ "Alternat With support	tive" with step section:
		B	H	B
			Max . lo	oad up to 250 kg!
H: L:	cm <b>A:</b> cm <b>S:</b>	cm	<del>_</del>	neelchair operator without E- drive
ь. В:	cm <b>S:</b> 	cm	☐ Is pu	•
	Ile □ Yes □ No (if "Y	es", mark the position	□ Lig	ing person: ght
Note: For pro	oduction reasons, railings o	cannot be installed ir	_	,
Is your step sit	tuation missing? Please draw	your own sketch:		

Query

□ Order

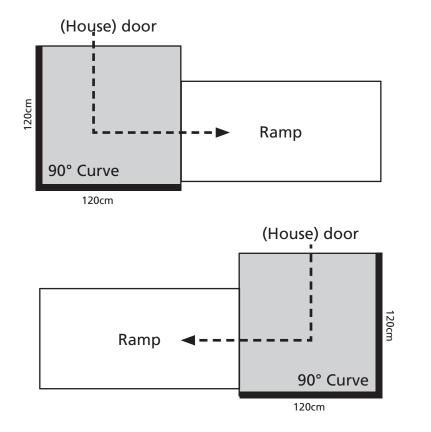
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Postcode, City, Country  Telephone / Fax  Commission  Wariant 4: without support  "Alternative" with step section: without support / for several steps  "Alternative" with step section: without support / for several steps  ### Commission  Wariant 5: with support   AA    ### Wariant 5: with support   AA    ### Wariant 5: with support   Fax    ### Wariant 5: with support   AA    ### Wariant								ne
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without support / for several steps  With support / for several steps  Wax . load up to 250 kg!  E-wheelchair  Self-operator without e-drives  Is pushed  Pushing person:  Light   Heavy  Weight of wheelchair + Person:	B		H					
L: cm Y: cm	<b></b> /	•			ion:	-		
L: cm Y: cm	B		X	B				X
L: cm Y: cm		nd up to 250 kg!	Max . load ı	cm		X:	L - cm	<b></b>
B: cm Z: cm								
A: cm (10cm length)	e e	perator without e-drive	☐ Self-ope					
Carry handle Yes No (if "Yes", mark the position Where it is to be mounted)  Light Heavy  Weight of wheelchair + Person:			-	(111				
Where it is to be mounted)  Weight of wheelchair + Person:					ricinguit	(TOCITI	(111	
<b></b>	n: kg	•		position	Yes", mark the	☐ No (if "`		
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Is your step situation missing? Please draw your own sketch:								
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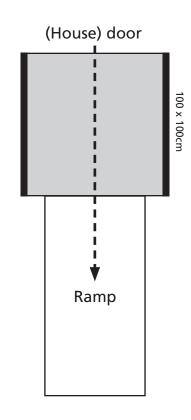
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	► A • L		B	☐ 	A A B B B
□ 	X LL		B	☐ H	NA   ■   A
Load	d up to 250 kg!				Recommended/optional
L:	cm	H:		_ cm	☐ Straight passage 100 x 100 cm
B:	cm	X:		_ cm	☐ Passage over corner 120 x 120 cm
A:	cm	Y:		_ cm	☐ Support 10 cm
	<ul><li>☐ without support</li><li>☐ with support</li></ul>	Z:		_ cm	All platforms can be adjusted in height by +/- 2cm.

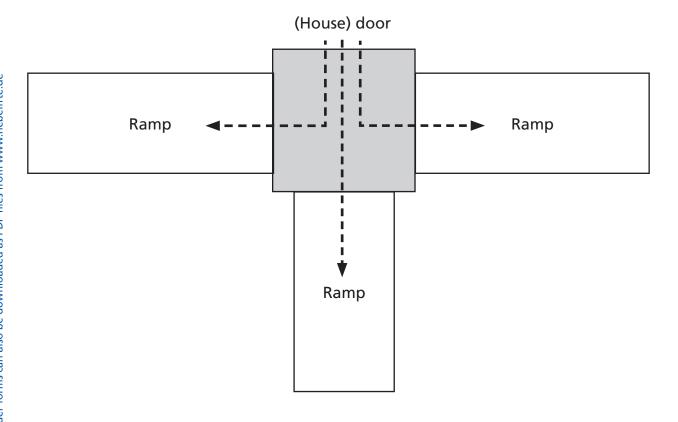
Is your step situation missing? Please draw your own sketch here:

# **Examples Platforms for step ramps**









Weight wheelchair + person:

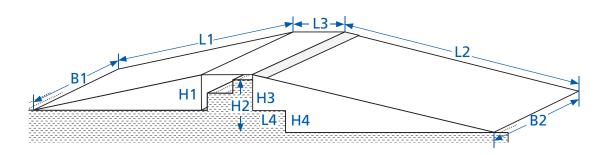
□ Query □ Order	
Door sill ramps, single-section Fill in and send by fax to 0421/24105-15 or to info@rollstuhlrampen.de	O-Lehmann
Name	Rollstuhlrampen & Hebelifte
Street, House No.	Contact
Postcode, City, Country	E-mail
Telephone / Fax	Commission
☐ Without wheel guide curbs Inside L1 H2	L2 Outside
□ With wheel guide curbs	Dutside B
H1: cm	Note:
L1: cm	Not suitable for balcony doors!
<b>L3:</b> cm <b>B:</b> cm	If the ramps must be removed for closing the door, please use the form "Terrace door ramps", as this ramp
Carry handle ☐ Yes ☐ No	type is essentially easier to handle
If "Yes", please mark the position at which it is to be mounted)	
Is your step situation missing? Please draw your own sketch here:	☐ E-wheelchair ☐ Self-operator without e-drive ☐ Is pushed Pushing person: ☐ Light ☐ Heavy

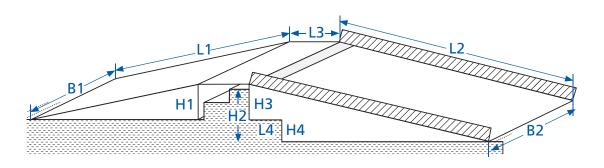
H4:

# ☐ Query☐ OrderTerrace door ramps

Fill in and send by fax to 0421/24105-15 or to info@rollstuhlrampen.de







cm

cm

H1:	cm	B1:	
H2:	cm	B2:	
H3:	cm		

\_\_\_\_ cm

L1: \_\_\_\_\_ cm
L2: \_\_\_\_ cm
L3: \_\_\_\_ cm
L4: \_\_\_\_ cm

Is your step situation missing? Please draw your own sketch here:

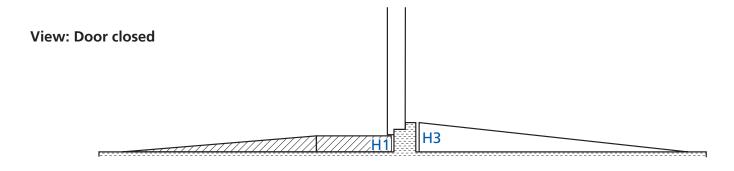
Terrace Fill in and send by fa	doo	r ramps					Lahn	nann
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Name					Ro	llstuhl	rampen &	Hebelitte
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Telephone / Fax					Con	nmission		
zTSR-Au wi	thout wl	neel guide cu	rbs	☐ zT	<b>SR-Ao</b> with	n wheel	l guide curb	os
B	L1	5 cm	L2	В		L1	-L3-	12
	H1	H2	B	Sille	Н	) L	12	
Inside: Remove to shut door		Outside: Stays!	' '	Inside: Remov	: ve to shut door		Outside: Stays!	
H1:	cm	H2:	cm	H1:		_ cm	H2: _	cm
L1:	cm	L2:	cm	L1:		cm	<b>L2:</b> _	cm
L3:	cm	B:	cm	L3:		_ cm	B: _	cm
zTSR-Au wi stepsection		neel guide cu	erbs with		SR-Ao with	n whee	→  <l3> &lt;</l3>	os for several
Inside:	H2 L4	H4 Outside:	8	<i>\$1114</i>	<i>[[]]</i>	H2 L4	TH4	
Remove to shut door		Stays!		Inside: Remov	: ve to shut door		Outside: Satys!	
H1:	cm	H2:	cm	H1:		cm	H2: _	cm
L1:	cm	Н3:	cm	L1:		cm	H3: _	cm
L2:	cm	H4:	cm	L2:		cm	H4: _	cm
L3:	cm	L4:	cm	L3:		cm	<b>L4:</b> _	cm
<b>B:</b> cm						cm		
Max . load up	to 250 kg	g!						please mark the
☐ E-wheelchair				position where it is to be mounted)				
☐ Self-operator without e-drive				☐ Door opens inside				
☐ Is pushed					or opens o	outside		
Pushing per	rson:			⊔ SII	ding door			
$\square$ Light $\square$	Heavy			levour	stan situation :	niccina? <sup>n</sup>	Nesse drawys:	r own skatch
Weight whe	Weight wheelchair + person: kg				Is your step situation missing? Please draw your own sketch and add it.			

# ☐ Query☐ OrderTerrace door ramps, 3-section

Fill in and send by fax to 0421/24105-15 or to info@rollstuhlrampen.de



- Ramps should always remain laid.
- Door opens and shuts over ramp.
- Only one bridging ramp to be removed to shut door!



View: Door open

will be calculated → L.	3 -
<b>←</b> L1 →	L2——
H1 = Height below the shut door:	L1 = Inside length:
H2 = Full height of door frame:	L2 = Outside length:
H3 = Outside height	L3 = Depth of door frame:
Carry handle ☐ Yes ☐ No	Max. ramp widthcm
: "\\-"	

If "Yes", please mark the position at which it is to be mounted)

☐ Door opens inside	☐ Door opens outside	☐ Sliding door

Is your step situation missing? Please draw your own sketch here:

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Name				_	KOHSTUNITC	лтреп & п	еренте
Street, Hous	se No.			_	Contact		
Postcode, Ci	ty, Country		_	E-mail			
Telephone /	Fax				Commission		
Art. No.	Ramp length <sup>1</sup>	Ramp width	Track width	Weight	Load	Query	Order
2-section	models:	<u> </u>			I	<u> </u>	

Art. No.	Ramp length <sup>1</sup>	Ramp width	Track width	Weight	Load	Query	Order
2-section models:							
TR130	80-137 cm	25 cm	19 cm	9 kg /pair	250 kg /pair		
TR195	110-198 cm	25 cm	19 cm	13 kg /pair	250 kg /pair		
TR310	170-317 cm	25 cm	19 cm	22 kg /pair	200 kg /pair		
3-section models:							
TR290	113-287 cm	26 cm	18 cm	23 kg /pair	200 kg /pair		

<sup>1</sup> Total length incl. support • Support length: 10 cm • Lateral height: 4.5-6 cm

Art. No.	Ramp length <sup>1</sup>	Ramp width	Track width	Weight	Load	Query	Order
2-section models:							
LTR204	120-204 cm	24 cm	19 cm	13 kg /pair	320 kg /pair		
3-section	3-section models:						
LTR290	120-290 cm	24 cm	17 cm	19 kg /pair	260 kg /pair		

<sup>1</sup> Total length incl. support • Support length: 6 cm • Lateral height: 6 cm

Art. No.	Ramp length <sup>1</sup>	Support length	Ramp width	Weight	Load	Query	Order
Ascent ra	mps:						
AFR100	100 cm	10 cm	20 cm	4,5 kg /pair	250 kg / pair		
AFR150	150 cm	10 cm	20 cm	6,5 kg /pair	250 kg / pair		
AFR200	200 cm	10 cm	20 cm	8,5 kg /pair	250 kg / pair		

<sup>1</sup> Total length including support

Is your ramp missing? Please draw your own sketch here:

	=	
	2	2
	C	1
	C	j
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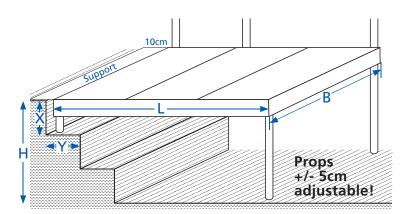
☐ Query ☐ Order  Section ramps  Fill in and send by fax to 0421/24105-15 or to info@rollstuhlrampen.de				Clehmann Rollstuhlrampen & Hebelifte	
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Railings available as option			<ul> <li>□ E-wheelchair</li> <li>□ Self-operator without e-drive</li> <li>□ Is pushed</li> <li>Pushing person:</li> </ul>		_
Please, dimension the stairs! From 4m length, in two pieces for the transportation			☐ Light ☐ Heavy  Weight wheelchair + person:  Max . load up to 400 kg!	kg	
Track / Width:		Railings:		<b>L:</b> cm	
☐ 80 / 88 cm		without Railing		<b>H:</b> cm	
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Is your step situation missing? Plea	se draw yo	our own sketch here:			

□ Query		rder		
<b>Platforms</b>	for	section	ram	ps

Fill in and send by fax to 0421/24105-15 or to info@rollstuhlrampen.de

Name	
Street, House No.	
Postcode, City, Country	
Telephone / Fax	





#### Width Length ☐ 88 cm ☐ 100 cm ☐ 120 cm ☐ 128 cm 168 cm ☐ 150 cm ☐ 208 cm \_\_\_\_\_ cm ☐ 10 cm support H: for existing step X: \_ cm ☐ without support Y: \_ cm

## Load up to 400 kg

☐ Additional steps on platform:

The number of steps is based on the total height, see examples X on the reverse side.

☐ Without railings, but with overrun protection

Railings: left and right

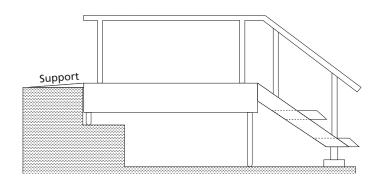
Railings over corner

Please also see the examples and instructions on the reverse side!

Is your step situation missing? Please draw your own sketch here: (Please also see the examples on the reverse side)

# **Examples Platforms for section ramps**





## **Example:**

Platform with railings and steps

The number of steps is based on the total height!

