

# LOADING SYSTEMS IN ALUMINIUM ALLOY GENERAL CATALOGUE



COMPANY
SELECTION GUIDE
EVENT & REMOV
RAMPS BRIDGES
RAMPS AND GAN



2 IDENTIFYING THE MOST SUITABLE PRODUCT 8 AL RAMPS AND LOADING RAMPS 10 AND TAIL LIFTS 46 IGWAYS FOR OVERCOMING BARRIERS 60



### MARKET LEADER: LOADING SYSTEMS IN ALUMINIUM ALLOY



The large headquarters at Mapello (BG), Italy, with over 4000 sqm dedicated to production and warehouses.

With more than twenty years of experience in the design, lightweight systems to ensure the safe, easy movement of goods production and sale of aluminium alloy loading and and people in everyday work situations and in overcoming unloading systems, METALMEC has risen to the position of architectural barriers (obstacles such as steps, pavements or market leader in Italy and ranks as one of the best in Europe. construction site trenches). We provide high-quality, reliable and The professional expertise gained from working with the best durable solutions for a wide variety of applications and sectors. primary aluminium alloys, moulding and welding to the highest Quality and professionalism make the difference – they are our quality standards, allows us to offer a wide range of strong, strength.







### DESIGN BEFORE CREATION: A GUARANTEE OF SAFETY



Careful analyses in the product design and prototyping stages are essential for achieving an excellent final result.

Whatever your loading or unloading needs, our range is sure to reliability of the structural calculations made during the design stage, offer you a solution that will guarantee you the best in terms of prior to starting production. The products authorised with a specific safety, as the implications of using these products are not to be logo have also been verified and certified by specialists from a notified underestimated. Whether you are moving a 50-tonne vehicle or simply body at international level. moving equipment manually, the consequences of a fall or slip can be Each one of our products is supplied with an Instruction and Warning disastrous.

Being aware of these risks, we design and manufacture our systems in (please note that products in the categories "event & removal ramps", strict accordance with the relevant regulations. When it comes to the "ramps", "gangways", "bridges" and "tail lifts" are not subject to CE approval stage, our products are tested at twice the stated loading certification). capacity (safety factor of 2.1). We have our very own on-site test area, As well as the product certification, Metalmec has also been given where we carry out destructive tests on our products to check the certification for its in-house quality management system.



Product certification

RANGES: M030 - M040 - M050 - M070 - M070P M075 – M080 – M100 – M115A – M120S – M125 M140 - M150 - M165 - M170 - M185 - M200 M230 - SH - MP - MPP - MPC

Manual and the respective manufacturer's Declaration of Conformity







Quality management system certification ISO 9001:2015



### LEAN MANUFACTURING: STATE-OF-THE-ART TECHNOLOGY AND SKILLED PERSONNEL



The large warehouse storing finished products allows us to reduce delivery times and arrange quick shipment of goods around the world.

The internal production process is organised such that we can The result is a product that we love to describe as "artisan"; perfectly respond quickly and flexibly to the frequent changes in production suited to the specific requirements of the application, with careful owing to the wide range of systems included in the catalogue, management of any customisation or special production requested while maintaining the quality and timings demanded by the market. by the client. Careful finishing, automated packing and well-Manufacturing processes performed by modern automated equipment organised logistics ensure that the product is delivered by the agreed alternate with manual processes carried out by skilled personnel. deadline.

		EXA	AMPLE	ES OF F	ROD	JCT SE	CTORS			EVEN	IT & REI	МО\	VAL RA	MPS a	and LC	ADING	i RAN	MPS													RAM	PS BRI	IDGE	S and	TAIL LI	FT				ove	MPS a ercomi riers	nd GAN ng archi	GWAY itectur	5 for al
									PAGE	12	13 14	4 1	15 16	5 18	19	21 2	3 2	24 25	5 26	5 27	28 2	.9 30	31	32	33 3	4 35	36	38 4	42	44	48	49	50	51 5	2 53	54	55	56	57 58			64 6	5 66	67 68
	BNI		BARRIERS	ANUFACTURERS					MAXIMUM LOADING CAPACITY kg	300	1.000	000-1	2.000 1.000	1.500	2.900	2.900	4.500	3.000	3.500	3.500	4.000	5.500	6.000	6.385	10.000	14.000	26.300	26.300	29.000	58.000	450	2.920	7.500	1.300	5.000	5.000	4.170	4.170	4.800 4.800	450	430	1.500	4.500	400 4.500
AGRICULTURE	VEHICLE OUTFITTING	AUTOMOTIVE	ARCHITECTURAL	TRUCK/TRAILER MANUFACTURERS	CONSTRUCTION	EVENTS/SHOWS	GARDENING	EARTHMOVING		M070P	MPC		MPCP HLS HS	M050	M030	M040	MUDDU	M070 M080	M075	M100	M115	M140	M150		M170-185	M230	M120S-AL	M1205-R	M120F	M130F	MBAP	MBAC	SH	MPL	M5040-2TL M5040-2TL	MS040G	MS030AC	MS030AL	MS040AC MS040AL	MBAP	MBAC	M050	MPI	MP
									WHEELBARROWS																																			
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									LIGHT MACHINERY WITH RUBBER WHEELS																																			
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									MANUAL WHEELCHAIRS																																			
									ELECTRIC WHEELCHAIRS																																			

### SELECTION GUIDE: IDENTIFYING THE MOST SUITABLE PRODUCT



Although our systems are produced to respond to specific needs, By checking the reference page, you can assess the technical their technical features make them ideal for many applications in features and dimensions of the products in detail, even selecting various different sectors. It is therefore essential to pay special any available customisations. attention to selecting the most suitable product for the particular The standard range is the starting point of our offering, as purpose and field of use, in order to guarantee the best performance METALMEC is always prepared to consider and produce special, in terms of safety and durability. customised systems according to client specifications.

This simple table helps you to quickly identify the most suitable product family based on examples of use/product sector.

Some of the special systems produced by Metalmec.

### EVENT & REMOVAL RAMPS AND LOADING RAMPS



The wide range of event & removal ramps and loading ramps produced With the ability to move vehicles with rubber tyres or steel tracks, by Metalmec has been studied, designed and manufactured to fully meet the professional requirements for loading and unloading machinery, tractors, excavators, aerial platforms, etc.), our range vehicles and equipment. It covers numerous fields of application, ranging from logistics, earthmoving, gardening and agricultural cultivation through to domestic and other non-professional use. durability and safety.

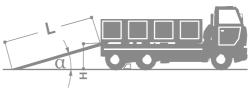
weighing from 300 kg to 58,000 kg (motorcycles, cars, gardening of standard or customised products is sure to provide you with a solution that will guarantee you the best in terms of guality,

### HOW TO DETERMINE THE LENGTH OF THE EVENT & REMOVAL RAMP OR LOADING RAMPS

During use, the inclination (a) of the event & removal ramp or loading ramps must not exceed a maximum slope of 30% (approx. 16.5°). In order to establish the minimum length (L) of the event & removal ramp or loading ramps to a good approximation, apply the following formula:

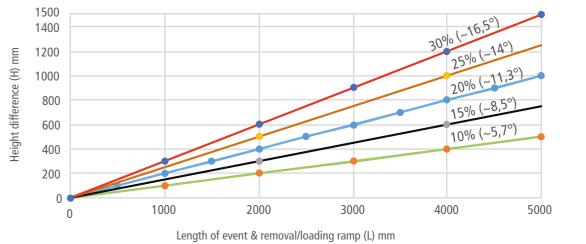
#### LENGTH OF EVENT & REMOVAL/LOADING HEIGHT DIFFERENCE IN MILLIMETRES (H) X 100 RAMP IN MILLIMETRES (L) =

Height difference (H) refers to the height of the loading bed from the ground.



EXAMPLE: Let's assume we need to overcome a height difference (H) of 1200 mm. By applying the formula indicated above, we obtain: LENGTH OF EVENT & REMOVAL/LOADING RAMP IN MILLIMETRES (L) = 1200 mm x 100 / 30 = 4000 mm

The diagram clearly shows the dimensions used to determine the length of the event & removal ramp or loading ramps and their interrelationships expressed by the formula above.



### NOTES

• If you would like an event & removal ramp or pair of ramps that are • The lengths indicated in the following tables are approximate (the longer (and therefore less steep) than the minimum length obtained length varies depending on the head connection selected); if you require using the calculation formula above, please specify as the bottom end more precise measurements, please contact us directly. of the ramp will need to be adapted to fit the resulting lower inclination. • The instructions for use and maintenance are described in the • The loading capacities indicated in the following tables refer to instruction and warning manual supplied with the product. uniformly distributed loads according to the wheelbase indicated and • The manufacturer's declaration of conformity is an integral part of the the width of the ramp. The more concentrated the load (or the smaller instruction and warning manual. • For all information regulating the supply of these products, please the wheelbase), the lower the loading capacity; a product with a larger nominal loading capacity should therefore be selected. refer to the manufacturer's General Conditions of Sale at the following • For vehicles with steel tracks, ramps with a loading capacity at least website: www.metalmecsrl.it.

15% greater than the weight of the vehicle itself must be used.

### OPTIONS

• Event & removal ramps and loading ramps are supplied as standard with according to product family. On request, the product can be configured the standard head connection. Other head models are available on request, with the anchoring systems available. depending on different application needs; head with hook, support or tube. • Further information about the available options is provided on the

• Event & removal ramps and loading ramps are supplied as standard following product pages. If this is not sufficient, please contact us with anchoring systems on the standard loading bed, which differ directly.

10

% MAXIMUM SLOPE ( $\alpha$ )

### **SKIP RAMPS**

M070P METALMEC

# **EVENT & REMOVAL RAMPS**



M070P

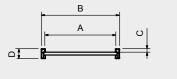
### MAX. LOADING CAPACITY: 300 kg

The M070P range of skip ramps, particularly suited to the fields of construction and gardening, has been designed for any application that requires the use of manual wheelbarrows in the loading and unloading of materials. The gaps in the driving surface not only allow for easy drainage of water or snow, but also have a self-cleaning effect on the dirt-covered wheels of the equipment, thereby guaranteeing good grip during use. The shoes of the user also benefit from this effect. This lightweight, easy-to-handle product is built with raised edges.





This type of event & removal ramp is particularly suited to any sector that uses manual pallet trucks or hand-pushed trolleys or equipment with small rubber wheels for loading and unloading work. Logistics companies specialising in removals, beverage delivery or event organisation are just a few examples of potential users of this product range. The range is made with or without raised edges and the product is supplied with the required anchoring tabs.





Item code

MM450B0.56.30

MM450B0.56.40

MM450B0.56.50

MM450B0.56.58

DRIVING SURFACE

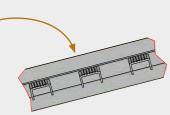
Model

M070P/30

M070P/40

M070P/50

M070P/58



DETAIL OF THE DRIVING SURFACE

Length

L mm

3000

4000

5000

5800

nternal width

Amm

500

500

500

500

Externa

width

Bmm

560

560

560

560

Loading capacity

kg

300

300

300

300



Height of raised edge

C mm

23

23

23

23

Weight per piece

18

24

30

36

eight of ram

profile D mm

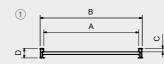
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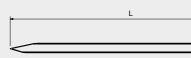
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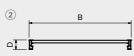
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DETAILS OF HEAD



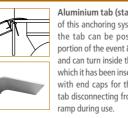




(1) WITH RAISED EDGE (2) WITHOUT RAISED EDGE

Model	ltem o	code	Loading	Length	Internal	External	Height of	Height of	Ramp dimen-	Weight pe
	with raised edge	without raised edge	capacity <b>kg</b> with 1000 mm wheelbase	Lmm	width A mm	width B mm	raised edge	ramp profile D mm	sion with raised edge E* mm	piece <b>kg</b>
MPC1800.750.1000	MM400BL.07.18	MM400SL.07.18	1000	1800	690	750	23	70	85	23
MPC2000.750.1000	MM400BL.07.20	MM400SL.07.20	1000	2000	690	750	23	70	85	25
MPC2400.750.1000	MM400BL.07.24	MM400SL.07.24	1000	2400	690	750	23	80	86	31
MPC2600.750.1000	MM400BL.07.26	MM400SL.07.26	1000	2600	690	750	23	80	86	33
MPC3000.750.1000	MM400BL.07.30	MM400SL.07.30	1000	3000	690	750	23	100	100	38
MPC3600.750.1000	MM400BL.07.36	MM400SL.07.36	1000	3600	690	750	36	115	115	45
MPC1800.1000.1000	MM400BL.10.18	MM400SL.10.18	1000	1800	940	1000	23	70	85	28
MPC2000.1000.1000	MM400BL.10.20	MM400SL.10.20	1000	2000	940	1000	23	70	85	34
MPC2400.1000.1000	MM400BL.10.24	MM400SL.10.24	1000	2400	940	1000	23	80	86	39
MPC2600.1000.1000	MM400BL.10.26	MM400SL.10.26	1000	2600	940	1000	23	80	86	42
MPC3000.1000.1000	MM400BL.10.30	MM400SL.10.30	1000	3000	940	1000	23	100	100	47
MPC3600.1000.1000	MM400BL.10.36	MM400SL.10.36	1000	3600	940	1000	36	115	115	57
MPC4000.1000.1000	MM400BL.10.40	MM400SL.10.40	1000	4000	940	1000	36	125	125	68
MPC4400.1000.1000	MM400BL.10.44	MM400SL.10.44	1000	4400	940	1000	36	125	125	74
MPC5000.1000.1000	MM400BL.10.50	MM400SL.10.50	1000	5000	940	1000	32	140	140	86
* Dimension E of the e	event & removal ram	os without raised ec	lges is the same	e as the hei	aht D of the	ramp profi	e.			

#### CHORING SYSTEMS



Aluminium tab (standard): The advantage of this anchoring system lies in the fact that the tab can be positioned along a large portion of the event & removal ramp's width, and can turn inside the head connection into which it has been inserted. The system comes with end caps for the head to prevent the tab disconnecting from the event & removal





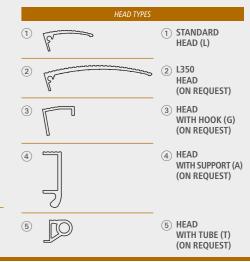
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#### HANDLING SYSTEMS

Steel pin (on request): A galvanised steel pin with a diameter of 14 mm and a 24-mm-diameter head can be inserted through the holes in the standard head connection of the event & removal ramp



Nylon handles (on request): The product can be supplied with robust nylon handles to facilitate handling. Available in lengths of 30 cm and 60 cm, according to the model of the product selected.

### **EVENT & REMOVAL RAMPS**

### **EVENT & REMOVAL RAMPS**

PROD	UCT	FAMILY
Μ	P(	

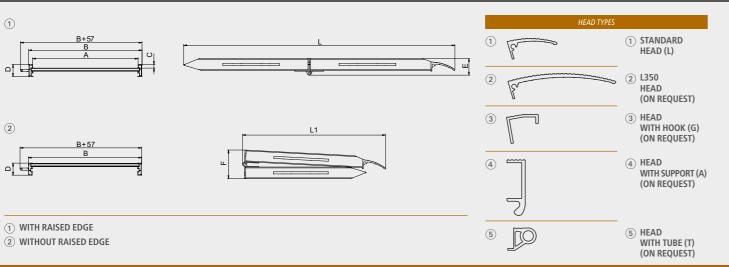
### MAX. LOADING CAPACITY: 1000 kg

The hinged event & removal ramps have been conceived for all users who need a product with a high loading capacity and that allows dimension reduction when not in use during transport with vehicles with small space for its housing. The functional hinge system and the side handles ensure the easy opening and closing of the ramp as well as its folding during loading and unloading operations with manual pallet trucks, hand-pushed trolleys or equipment with small rubber wheels. The range is made with or without raised edges and the product is supplied with the required anchoring tabs.



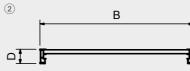
PRODUCT FAMILY: MAX. LOADING CAPACITY: 2000 kg **MPCP** 

This innovative type of event & removal ramp is particularly suited to any sector that uses electric pallet trucks for loading and unloading work thanks to its high loading capacity and the outstanding grip of its driving surface. Logistics and manufacturing companies are just a few examples of potential users of this product range. The range is made with or without raised edges and the product is supplied with the required anchoring tabs.



Model	Item	code	Loading	Length	Folded	Internal	External	Height	Height of	Ramp	Folded	Weight
	with raised edge	without raised edge	capacity <b>kg</b> with 1000 mm wheelbase	Lmm	ramp length L1 mm	width A mm	width B mm	of raised edge C mm	ramp profile <b>D mm</b>	dimension E mm	ramp dimension <b>F mm</b>	per piece <b>kg</b>
MPCI1800.750.1000	MM401BL.07.18	MM401SL.07.18	1000	1811	986	690	750	23	80	111	197	30,5
MPCI2000.750.1000	MM401BL.07.20	MM401SL.07.20	1000	2011	1051	690	750	23	80	111	197	32,5
MPCI2400.750.1000	MM401BL.07.24	MM401SL.07.24	800	2411	1251	690	750	23	80	111	197	37,0
MPCI2600.750.1000	MM401BL.07.26	MM401SL.07.26	700	2611	1386	690	750	23	80	111	197	39,0
MPCI3000.750.1000	MM401BL.07.30	MM401SL.07.30	500	3011	1586	690	750	23	100	131	237	43,0
MPCI1800.1000.1000	MM401BL.10.18	MM401SL.10.18	1000	1811	986	940	1000	23	80	111	197	38,0
MPCI2000.1000.1000	MM401BL.10.20	MM401SL.10.20	1000	2011	1051	940	1000	23	80	111	197	41,0
MPCI2400.1000.1000	MM401BL.10.24	MM401SL.10.24	800	2411	1251	940	1000	23	80	111	197	47,0
MPCI2600.1000.1000	MM401BL.10.26	MM401SL.10.26	700	2611	1386	940	1000	23	80	111	197	49,0
MPCI3000.1000.1000	MM401BL.10.30	MM401SL.10.30	500	3011	1586	940	1000	23	100	131	237	55,0

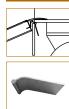
### (1) В А $\circ$ $\Box$



(1) WITH RAISED EDGE (2) WITHOUT RAISED EDGE

Model	Item with raised edge	code without raised edge	Loading capacity <b>kg</b> with 1000 mm	Length	Internal width	External width	Height of raised edge	Height of ramp profile	Weight per piece
			wheelbase	Lmm	A mm	B mm	C mm	D mm	kg
MPCP1800.1000.2000	MM410BL.10.18	MM410SL.10.18	2000	1800	940	1000	36	115	37
MPCP2000.1000.2000	MM410BL.10.20	MM410SL.10.20	2000	2000	940	1000	36	115	40
MPCP2400.1000.2000	MM410BL.10.24	MM410SL.10.24	2000	2400	940	1000	36	125	50
MPCP2600.1000.2000	MM410BL.10.26	MM410SL.10.26	2000	2600	940	1000	36	125	54
MPCP3000.1000.2000	MM410BL.10.30	MM410SL.10.30	2000	3000	940	1000	32	140	63
MPCP3600.1000.2000	MM410BL.10.36	MM410SL.10.36	2000	3600	940	1000	32	150	77
MPCP4000.1000.2000	MM410BL.10.40	MM410SL.10.40	2000	4000	940	1000	32	150	96

#### ICHORING SYSTEMS



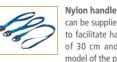
the tab can be positioned along a large portion of the event & removal ramp's width, and can turn inside the head connection into which it has been inserted. The system comes with end caps for the head to prevent the tab disconnecting from the event & removal ramp during use.

Aluminium tab (standard): The advantage

of this anchoring system lies in the fact that

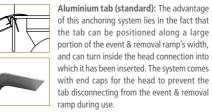
Steel pin (on request): A galvanised steel pin with a diameter of 14 mm and a 24-mm-diameter head can be inserted through the holes in the standard head connection of the event & removal ramp and the loading bed.

#### HANDLING SYSTEMS



Nylon handles (on request): The product can be supplied with robust nylon handles to facilitate handling. Available in lengths of 30 cm and 60 cm, according to the model of the product selected.

#### CHORING SYSTEMS

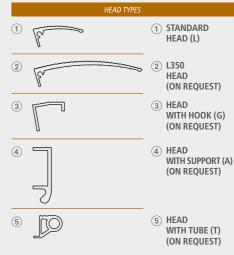


of this anchoring system lies in the fact that the tab can be positioned along a large portion of the event & removal ramp's width, and can turn inside the head connection into which it has been inserted. The system comes with end caps for the head to prevent the tab disconnecting from the event & removal

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#### HANDLING SYSTEMS



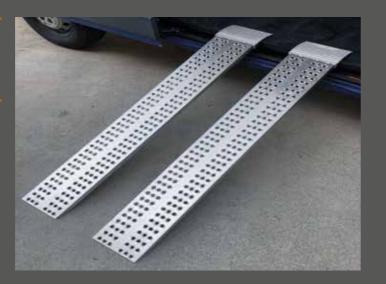
Nylon handles (on request): The product can be supplied with robust nylon handles to facilitate handling. Available in lengths of 30 cm and 60 cm, according to the model of the product selected.

HLS HS STRAIGHT

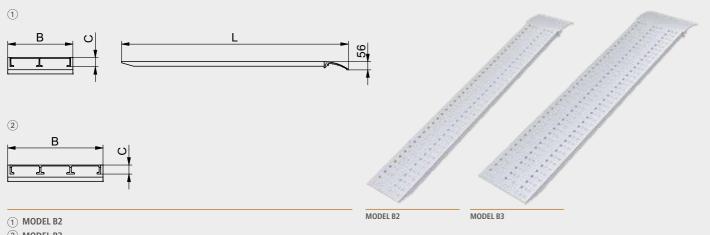
### LOADING RAMPS

#### PRODUCT FAMILY: MAX. LOADING CAPACITY PER PAIR: **HLS HS** 1000 kg STRAIGHT AND CURVED

This range of products has been conceived, developed and manufactured for all users who need to combine good loading capacity with a lightweight, easy-to-handle product for non-professional applications. The unique holes in the aluminium profile give the ramps both outstanding grip and the ability to easily drain troublesome elements such as water and snow. The features of these products are particularly beneficial in the DIY/hobby sector, lending themselves to any loading or unloading work involving equipment with rubber wheels, such as hand-pushed trolleys, lawnmowers, motorcycles, quad bikes, etc. The curved range provides the same performance as the straight range, but is particularly suitable for use with vehicles that have limited space between their underside and the ground (often due to having small wheels), allowing the user to clear heights of up to 900 mm without obstruction.







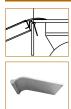
(2) MODEL B3

			Loading	capacity pe	er pair <b>kg</b>						
Model	Item code			Wheelbase	2		Length	External	Height of	Min./max.	Weight
		0 mm	500 mm	750 mm	1000 mm	1250 mm	Lmm	width B mm	ramp profile C mm	loading height	per pair <b>kg</b>
M030B2HLS/15	MM010S0.20.15	350	425	500	600	600	1500	215	30	350 / 450	8,0
M030B2HLS/20	MM010S0.20.20	230	280	350	400	500	1990	215	30	460 / 600	10,0
M030B2HS/15	MM012S0.20.15	500	600	650	700	700	1500	215	30	350 / 450	10,5
M030B2HS/20	MM012S0.20.20	400	550	600	650	700	1990	215	30	460 / 600	14,0
M030B3HS/15	MM014S0.30.15	800	1000	1000	1000	1000	1500	315	30	350 / 450	16,0
M030B3HS/20	MM014S0.30.20	650	780	900	1000	1000	1990	315	30	460 / 600	21,0
M030B3HS/25	MM014S0.30.25	500	600	700	800	1000	2510	315	30	610 / 750	26,0
M040B3HS/30	MM016S0.30.30	700	800	900	1000	1000	3000	315	40	760 / 900	36,0

# (1) MODEL B2 (2) MODEL B3

			Loading	capacity pe	er pair <b>kg</b>							
Model	Item code		,	Wheelbase	2		Length	External	Height of	Min./max.	Overall ramp	Weight
		0 mm	500 mm	750 mm	1000 mm	1250 mm	Lmm	width B mm	ramp profile C mm	loading height	dimensions E mm	per pair <b>kg</b>
M030B2BHLS/15	MM011S0.20.15	280	320	400	540	540	1492	215	30	260 / 380	90	8,0
M030B2BHLS/20	MM011S0.20.20	200	225	280	360	450	1980	215	30	390 / 520	104	10,0
M030B2BHS/15	MM013S0.20.15	400	450	520	560	600	1492	215	30	260 / 380	90	10,5
M030B2BHS/20	MM013S0.20.20	320	400	480	540	580	1980	215	30	390 / 520	104	14,0
M030B3BHS/15	MM015S0.30.15	640	750	850	950	1000	1492	315	30	260 / 380	90	16,0
M030B3BHS/20	MM015S0.30.20	520	580	720	900	1000	1980	315	30	390 / 520	104	21,0
M030B3BHS/25	MM015S0.30.25	400	450	560	720	850	2499	315	30	530 / 650	115	26,0
M040B3BHS/30	MM017S0.30.30	560	600	720	900	1000	2988	315	40	660 / 800	122	36,0

#### CHORING SYSTEMS



advantage of this anchoring system lies in the fact that the tab can be positioned along a large portion of the ramp's width, and can turn inside the head connection into which it has been inserted. The system comes with end caps for the head to prevent the tab disconnecting from the ramp during use.

Aluminium tab (on request): The

Steel pin (on request): A galvanised steel pin with a diameter of 14 mm and a 24-mm-diameter head can be inserted through the holes in the standard head connection of the ramp and the loading bed.

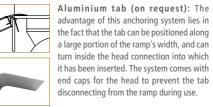
HANDLING SYSTEMS



Nylon handles (on request): The product can be supplied with robust nylon handles to facilitate handling. Available in lengths of 30 cm and 60 cm, according to the model of the product selected.

#### CHORING SYSTEMS

(1)



advantage of this anchoring system lies in the fact that the tab can be positioned along a large portion of the ramp's width, and can turn inside the head connection into which it has been inserted. The system comes with end caps for the head to prevent the tab disconnecting from the ramp during use.

bed.

### HLS HS CURVED





MODEL B2

MODEL B3

#### HANDLING SYSTEMS

Steel pin (on request): A galvanised steel pin with a diameter of 14 mm and a 24-mm-diameter head can be inserted through the holes in the standard head connection of the ramp and the loading



Nylon handles (on request): The product can be supplied with robust nylon handles to facilitate handling. Available in lengths of 30 cm and 60 cm, according to the model of the product selected.

### LOADING RAMPS



MAX. LOADING CAPACITY PER PAIR: 1500 kg

These aluminium ramps offer an excellent compromise between high load capacity and low weight. They are robust, easy to handle and have a non-slip surface, obtained through coining. With an internal width of 155 mm and 45 mm high raised containment edges, these ramps are particularly suitable for the safe loading and unloading of motorcycles, electric generators, compressors and other items of equipment. To optimise transport, this range of ramps can be supplied either as the hinged, folding version or as the bayonet coupling version. With the hinged, folding version, the loading capacity reduces to 300 kg per pair for all lengths.

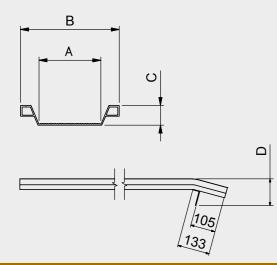


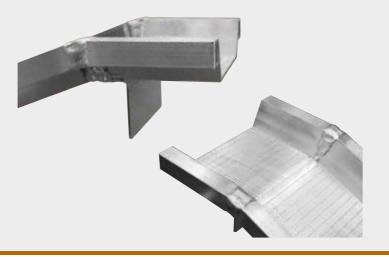
PRODUCT FAMILY: M030 M040

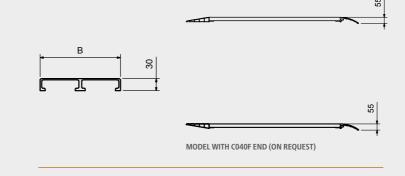
MAX. LOADING CAPACITY PER PAIR:

### 2900 kg

This range has been designed to provide maximum loading capacity alongside a very thin profile. The unique holes in the aluminium profile give the ramp both outstanding grip and the ability to easily drain troublesome elements such as water, mud and snow. Thanks to the option of mounting different types of head connections, these ramps lend themselves to various fields of use, from agriculture to construction, logistics to vehicle recovery applications. The range is made without raised edges and the product is supplied with the required anchoring tabs. To optimise transport, this range of ramps can be supplied as the hinged, folding version. Users who do not want any inconsistency in slope between the bottom end of the ramp and the ramp's working surface can request that the product be supplied with a C040F-type end, which addresses this issue.

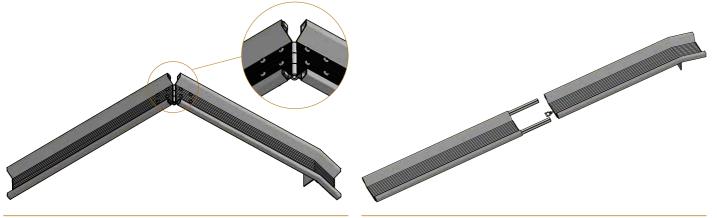






	Loadii	ng capacity per	pair <b>kg</b>						
Item code		Wheelbase		Length	Internal	External	Height of	Overall ramp	Weight
	0 mm	500 mm	1000 mm	mm	width A mm	width B mm	raised edge C mm	dimensions D mm	per pair <b>kg</b>
MM050B0.25.10	800	1500	1500	1000	155	246	45	100	9
MM050B0.25.15	800	1479	1500	1500	155	246	45	100	13
MM050B0.25.20	739	986	1479	2000	155	246	45	100	17
MM050B0.25.25	532	665	887	2500	155	246	45	100	20
MM050B0.25.30	419	503	628	3000	155	246	45	100	24
MM050B0.25.35	346	404	485	3500	155	246	45	100	28
	MM050B0.25.10 MM050B0.25.15 MM050B0.25.20 MM050B0.25.25 MM050B0.25.30	Item code         0 mm           MM05080.25.10         800           MM05080.25.15         800           MM05080.25.20         739           MM05080.25.25         532           MM05080.25.30         419	Item code         Wheelbase           0         0         500           mm         MM050B0.25.10         800         1500           MM050B0.25.15         800         1479           MM050B0.25.20         739         986           MM050B0.25.25         532         665           MM050B0.25.30         419         503	NMM050B0.25.10         800         1500         mm           MM050B0.25.15         800         1479         1500           MM050B0.25.20         739         986         1479           MM050B0.25.25         532         665         887           MM050B0.25.30         419         503         628	Item code         Wheelbase         Length           0         0         500         1000           mm         500         1500         1000           MM050B0.25.10         800         1500         1500         1000           MM050B0.25.15         800         1479         1500         1500           MM050B0.25.20         739         986         1479         2000           MM050B0.25.25         532         665         887         2500           MM050B0.25.30         419         503         628         3000	Item code         Wheelbase         Length         Internal width           0         0         500         1000         mm         A mm           MM050B0.25.10         800         1500         1500         1000         155           MM050B0.25.15         800         1479         1500         1500         155           MM050B0.25.20         739         986         1479         2000         155           MM050B0.25.25         532         665         887         2500         155           MM050B0.25.30         419         503         628         3000         155	Item code         Wheelbase         Length         Internal width width         External width           0         0         500         1000         mm         A mm         B mm           MM050B0.25.10         800         1500         1500         1000         155         246           MM050B0.25.15         800         1479         1500         1500         155         246           MM050B0.25.20         739         986         1479         2000         155         246           MM050B0.25.25         532         665         887         2500         155         246           MM050B0.25.30         419         503         628         3000         155         246	Item code         Wheelbase         Length         Internal width arm         External width B mm         Height of raised edge C mm           MM050B0.25.10         800         1500         1500         1000         155         246         45           MM050B0.25.15         800         1479         1500         1500         155         246         45           MM050B0.25.20         739         986         1479         2000         155         246         45           MM050B0.25.25         532         665         887         2500         155         246         45           MM050B0.25.30         419         503         628         3000         155         246         45	Item code         Wheelbase         Length         Internal width A mm         External width A mm         Height of C mm         Overall ramp dimensions D mm           MM050B0.25.10         800         1500         1500         1000         155         246         45         100           MM050B0.25.15         800         1479         1500         1500         155         246         45         100           MM050B0.25.25         739         986         1479         2000         155         246         45         100           MM050B0.25.25         532         665         887         2500         155         246         45         100           MM050B0.25.30         419         503         628         3000         155         246         45         100

With the hinged, folding version, the loading capacity reduces to 300 kg per pair for all lengths.



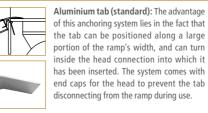
HINGED VERSION (ON REOUEST)

**BAYONET COUPLING VERSION (ON REOUEST)** 

Loading capacity per p Wheelbase Model Item code 750 mm 500 M030B2/15 MM030SL.20.15 830 1107 MM030SL.20.20 M030B2/20 553 664 M030B2/25 MM030SL.20.25 415 474 M030B2/30 MM030SL.20.30 315 350 M030B2/35 MM030SL.20.35 249 271 M030B2/40 MM030SL.20.40 201 216 M030B2/15/2 MM030SL.40.15 1660 2214 M030B2/20/2 MM030SL.40.20 1106 1328 M030B2/25/2 MM030SL.40.25 830 948 MM030SL.40.30 M030B2/30/2 630 701 M030B2/35/2 MM030SL.40.35 498 543 M030B2/40/2 MM030SL.40.40 402 433

Hinged version: 200 kg per pair for all M030B2 models.

#### ANCHORING SYSTEMS



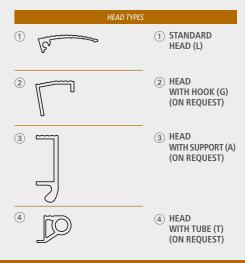
of this anchoring system lies in the fact that the tab can be positioned along a large portion of the ramp's width, and can turn inside the head connection into which it has been inserted. The system comes with end caps for the head to prevent the tab disconnecting from the ramp during use.

bed.

### 







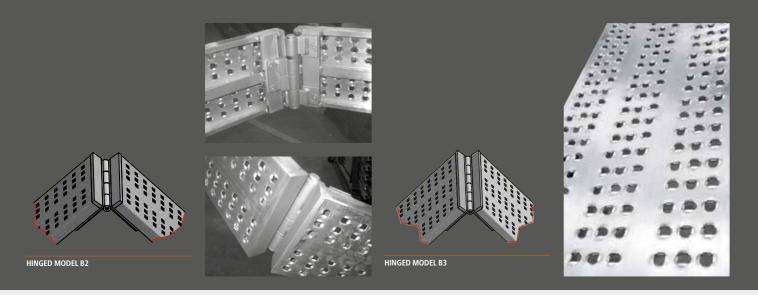
air	kg			
	1000 mm	Length <b>mm</b>	External width <b>B mm</b>	Weight per pair <b>kg</b>
	1580	1500	215	13
	830	2000	215	16
	553	2500	215	19
	394	3000	215	23
	298	3500	215	26
	235	4000	215	29
	2900	1500	415	24
	1660	2000	415	30
	1106	2500	415	37
	788	3000	415	44
	597	3500	415	50
	470	4000	415	57

#### HANDLING SYSTEMS

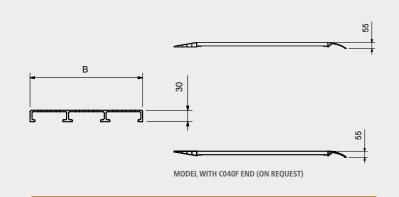


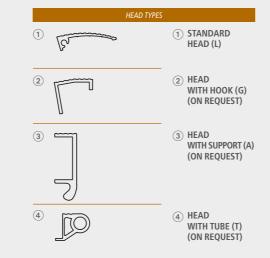
Nylon handles (on request): The product can be supplied with robust nylon handles to facilitate handling. Available in lengths of 30 cm and 60 cm, according to the model of the product selected.

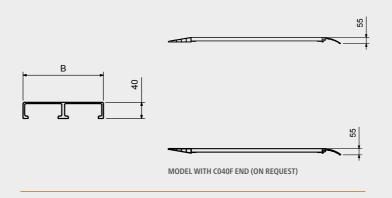
### LOADING RAMPS







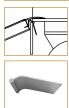




Model	Item code		Wheelbase		Length	External	Weight
		500 mm	750 mm	1000 mm	mm	width B mm	per pair <b>kg</b>
M030B3/15	MM035SL.30.15	1178	1570	2355	1500	315	18
M030B3/20	MM035SL.30.20	785	942	1178	2000	315	23
M030B3/25	MM035SL.30.25	589	673	785	2500	315	28
M030B3/30	MM035SL.30.30	447	496	559	3000	315	33
M030B3/35	MM035SL.30.35	353	385	423	3500	315	38
M030B3/40	MM035SL.30.40	285	307	334	4000	315	43
M030B3/15/2	MM035SL.60.15	2356	2900	2900	1500	615	35
M030B3/20/2	MM035SL.60.20	1570	1884	2356	2000	615	45
M030B3/25/2	MM035SL.60.25	1178	1346	1570	2500	615	55
M030B3/30/2	MM035SL.60.30	894	993	1119	3000	615	65
M030B3/35/2	MM035SL.60.35	707	770	847	3500	615	75
M030B3/40/2	MM035SL.60.40	571	615	668	4000	615	85

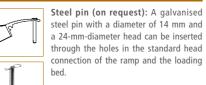
ng capacity cg pe must be considered.

#### ANCHORING SYSTEMS



of this anchoring system lies in the fact that the tab can be positioned along a large portion of the ramp's width, and can turn inside the head connection into which it has been inserted. The system comes with end caps for the head to prevent the tab disconnecting from the ramp during use.

Aluminium tab (standard): The advantage



#### HANDLING SYSTEMS

8

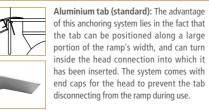


can be supplied with robust nylon handles to facilitate handling. Available in lengths of 30 cm and 60 cm, according to the model of the product selected.

		I	Loading capacity per pai	r <b>kg</b>			
Model	Item code		Wheelbase		Length	External	Weight
		500 mm	750 mm	1000 mm	mm	width B mm	per pair <b>kg</b>
M040B2/15	MM040SL.20.15	1259	1580	1580	1500	215	14
M040B2/20	MM040SL.20.20	839	1007	1259	2000	215	18
M040B2/25	MM040SL.20.25	630	719	839	2500	215	22
M040B2/30	MM040SL.20.30	478	532	598	3000	215	25
M040B2/35	MM040SL.20.35	378	412	453	3500	215	29
M040B2/40	MM040SL.20.40	306	328	357	4000	215	33
M040B2/15/2	MM040SL.40.15	2518	2900	2900	1500	415	26
M040B2/20/2	MM040SL.40.20	1678	2014	2518	2000	415	33
M040B2/25/2	MM040SL.40.25	1260	1438	1678	2500	415	41
M040B2/30/2	MM040SL.40.30	957	1064	1197	3000	415	48
M040B2/35/2	MM040SL.40.35	756	824	907	3500	415	56
M040B2/40/2	MM040SL.40.40	612	657	714	4000	415	63

Hinged version: 300 kg per pair

#### ANCHORING SYSTEMS

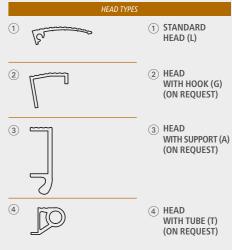


of this anchoring system lies in the fact that the tab can be positioned along a large portion of the ramp's width, and can turn inside the head connection into which it has been inserted. The system comes with end caps for the head to prevent the tab disconnecting from the ramp during use.

bed.







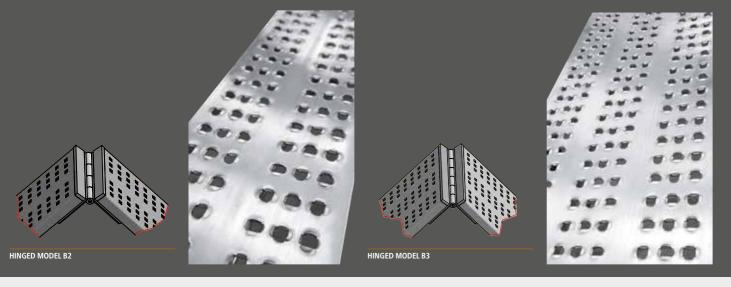
#### HANDLING SYSTEMS

Steel pin (on request): A galvanised steel pin with a diameter of 14 mm and a 24-mm-diameter head can be inserted through the holes in the standard head connection of the ramp and the loading

Nylon handles (on request): The product can be supplied with robust nylon handles to facilitate handling. Available in lengths of 30 cm and 60 cm, according to the model of the product selected.

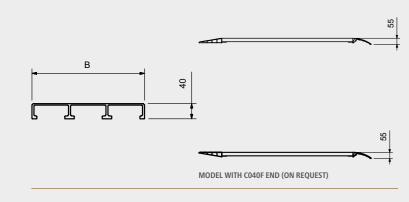
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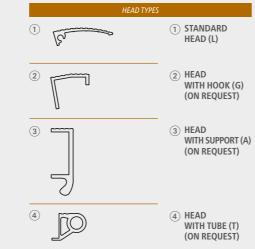
### LOADING RAMPS

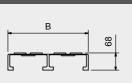


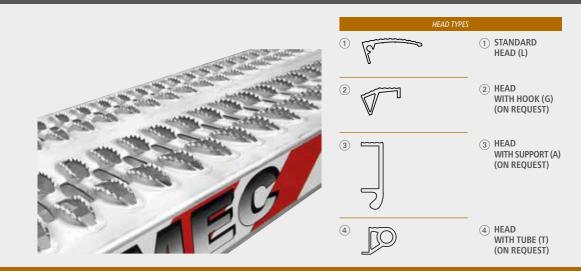


This range has been conceived to meet the needs of those who need to move heavy equipment and vehicles but also require a self-cleaning contact surface with excellent grip. The innovative, thin, extruded and cut profile used in the production of these ramps gives the product these characteristics that are particularly valued by light trailer manufacturers. Vehicles and equipment with rubber wheels or tracks can be moved in any weather conditions and in complete safety. The range is made without raised edges. Various types of head connection can be mounted on request and the product is supplied with the required anchoring tabs.





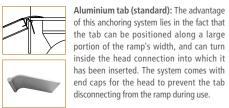




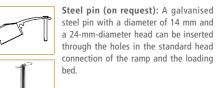
		L	oading capacity per pair	kg			
Model	Item code		Wheelbase		Length	External	Weight
		500 mm	750 mm	1000 mm	mm	width B mm	per pair <b>kg</b>
M040B3/15	MM045SL.30.15	2132	2370	2370	1500	315	21
M040B3/20	MM045SL.30.20	1421	1705	2132	2000	315	27
M040B3/25	MM045SL.30.25	1066	1218	1421	2500	315	33
M040B3/30	MM045SL.30.30	810	899	1012	3000	315	39
M040B3/35	MM045SL.30.35	639	697	767	3500	315	45
M040B3/40	MM045SL.30.40	517	557	604	4000	315	51
M040B3/15/2	MM045SL.60.15	2900	2900	2900	1500	615	40
M040B3/20/2	MM045SL.60.20	2842	2900	2900	2000	615	52
M040B3/25/2	MM045SL.60.25	2132	2436	2842	2500	615	64
M040B3/30/2	MM045SL.60.30	1620	1799	2025	3000	615	76
M040B3/35/2	MM045SL.60.35	1279	1395	1535	3500	615	88
M040B3/40/2	MM045SL.60.40	1035	1115	1208	4000	615	100
Hinged version: 5	600 kg per pair for all M04	0B3 models.					

		Lo	ading capacity per pair	kg			
Model	Item code		Wheelbase		Length	External	Weight
		1000 mm	1250 mm	1500 mm	mm	width B mm	per pair <b>kg</b>
M060B3/15	MM060SL.30.15	4500	4500	4500	1500	315	22
M060B3/20	MM060SL.30.20	3300	3900	4500	2000	315	29
M060B3/25	MM060SL.30.25	2400	3000	3400	2500	315	33
M060B3/30	MM060SL.30.30	1705	2000	2250	3000	315	40
M060B3/35	MM060SL.30.35	1200	1350	1500	3500	315	47
M060B3/40	MM060SL.30.40	1000	1100	1200	4000	315	54

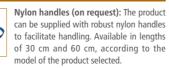
#### CHORING SYSTEMS



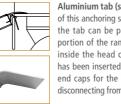
the tab can be positioned along a large portion of the ramp's width, and can turn inside the head connection into which it has been inserted. The system comes with end caps for the head to prevent the tab disconnecting from the ramp during use.



#### HANDLING SYSTEMS



#### CHORING SYSTEMS



Aluminium tab (standard): The advantage of this anchoring system lies in the fact that the tab can be positioned along a large portion of the ramp's width, and can turn inside the head connection into which it has been inserted. The system comes with end caps for the head to prevent the tab disconnecting from the ramp during use.

bed.

### 





#### HANDLING SYSTEMS



Nylon handles (on request): The product can be supplied with robust nylon handles to facilitate handling. Available in lengths of 30 cm and 60 cm, according to the model of the product selected.

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### LOADING RAMPS

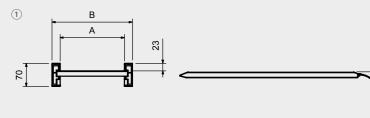


MAX. LOADING CAPACITY PER PAIR 4500 kg

This wide range of loading and unloading ramps, made with high-quality extruded aluminium profiles, is particularly suitable for moving rubber-wheeled vehicles used in various sectors, from agriculture to gardening and construction to earthmoving, such as mini tractors, mini excavators, mini dumpers, etc. Available in various widths and with different types of head connections, they are particularly valued by manufacturers of light trailers as they are perfectly suited to their needs. The range is made with and without raised edges and the product is supplied with the required anchoring tabs. Upon request, the range without a raised edge can be supplied with a vulcanised rubber covering for the specific handling of compactor rollers and vehicles with steel tracks.







Item code

with raised edge

MM070BL.30.15

MM070BL.30.20

MM070BL.30.25

MM070BL.30.30

MM070BL 30.35

MM070BL.30.40

MM070BL.50.15

MM070BL.50.20

MM070BL.50.25

MM070BL.50.30

MM070BL.50.35

MM070BL.50.40

Minimum width of the wheel or track: 150 mm.

without raised edge

MM070SL.30.15

MM070SL.30.20

MM070SL.30.25

MM070SL.30.30

MM070SL.30.35

MM070SL.30.40

MM070SL.50.15

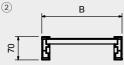
MM070SL.50.20

MM070SL.50.25

MM070SL.50.30

MM070SL.50.35

MM070SL.50.40



(1) WITH RAISED EDGE

Model

M070/15

M070/20

M070/25

M070/30

M070/35

M070/40

M070/15L

M070/20L

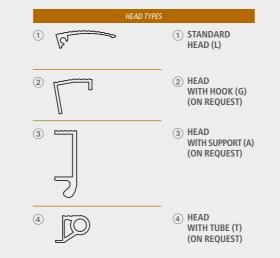
M070/25L

M070/30L

M070/35L

M070/40L

(2) WITHOUT RAISED EDGE



with raised edge

E\* mm

85

85

85

85

85

85

85

85

85

85

85

85

width

Bmm

300

300

300

300

300

300

500

500

500

500

500

500

A mm

240

240

240

240

240

240

440

440

440

440

440

440

Se C

per pair **kg** 

19

24

28

34

39

43

26

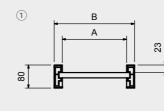
32

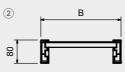
38

46

52

58

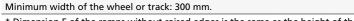




(1) WITH RAISED EDGE (2) WITHOUT RAISED EDGE

			Loading	g capacity per	pair <b>kg</b>					
Product	lten	n code		Wheelbase		Length	Internal	External	Ramp dimension	Weight
	with raised edge	without raised edge	1000 mm	1250 mm	1500 mm	mm	width A mm	width <b>B mm</b>	with raised edge E* mm	per pair <b>kg</b>
M080/20	MM080BL.30.20	MM080SL.30.20	2510	3000	3000	2000	240	300	86	26
M080/25	MM080BL.30.25	MM080SL.30.25	1674	2009	2510	2500	240	300	86	31
M080/30	MM080BL.30.30	MM080SL.30.30	1255	1435	1674	3000	240	300	86	38
M080/35	MM080BL.30.35	MM080SL.30.35	1004	1116	1255	3500	240	300	86	43
M080/40	MM080BL.30.40	MM080SL.30.40	837	913	1004	4000	240	300	86	48
M080/45	MM080BL.30.45	MM080SL.30.45	717	772	837	4500	240	300	86	55
Minimum widt	h of the wheel or track:	150 mm.								

\* Dimension E of the ramps without raised edges is the same as the height of the ramp profile.



#### \* Dimension E of the ramps without raised edges is the same as the height of the ramp profile.

#### ANCHORING SYSTEMS



of this anchoring system lies in the fact that the tab can be positioned along a large portion of the ramp's width, and can turn inside the head connection into which it has been inserted. The system comes with end caps for the head to prevent the tab disconnecting from the ramp during use.

Aluminium tab (standard): The advantage

Steel pin (on request): A galvanised steel pin with a diameter of 14 mm and a 24-mm-diameter head can be inserted through the holes in the standard head connection of the ramp and the loading bed.

Loading capacity per pair **kg** Wheelbase

1000 mm

2750

1906

1270

960

765

647

2450

1906

1270

960

765

647

750 mm

2500

1525

1090

850

700

597

2450

1525

1090

850

700

597

Length

mm

1500

2000

2500

3000

3500

4000

1500

2000

2500

3000

3500

4000

1250 mm

3000

2500

1525

1085

845

706

2450

2450

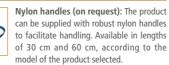
1525

1085

845

706

#### HANDLING SYSTEMS



ANCHORING SYSTEMS

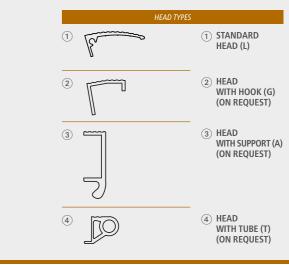


Aluminium tab (standard): The advantage of this anchoring system lies in the fact that the tab can be positioned along a large portion of the ramp's width, and can turn inside the head connection into which it has been inserted. The system comes with end caps for the head to prevent the tab disconnecting from the ramp during use.

bed.

### 





#### HANDLING SYSTEMS



Nylon handles (on request): The product can be supplied with robust nylon handles to facilitate handling. Available in lengths of 30 cm and 60 cm, according to the model of the product selected.

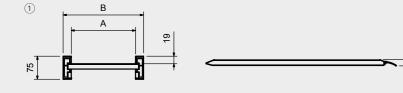
### 

### LOADING RAMPS









Item code

without raised edge

MM075SL.30.20

MM075SL.30.25

MM075SL.30.30

MM075SL.30.35

MM075SL.30.40

MM075SL.30.45

\* Dimension E of the ramps without raised edges is the same as the height of the ramp profile.

with raised edge

MM075BL.30.20

MM075BL.30.25

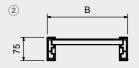
MM075BL.30.30

MM075BL.30.35

MM075BL.30.40

MM075BL.30.45

Minimum width of the wheel or track: 150 mm.



(1) WITH RAISED EDGE

Model

M075/20

M075/25

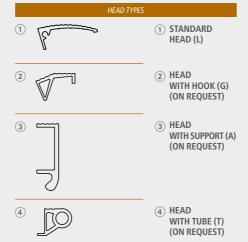
M075/30

M075/35

M075/40

M075/45

(2) WITHOUT RAISED EDGE



with raised edg

E\* mm

85

85

85

85

85

85



Weight per pair **kg** 

32

39

43

49

54

62

23

① WITH RAISED EDGE

1

(2)

2	WITHOUT	RAISED	EDGE
---	---------	--------	------

			Load	ing capacity per p	air <b>kg</b>				
Model	lte	m code		Wheelbase		Length	Internal	External	Weight
	with raised edge	without raised edge	1000 mm	1250 mm	1500 mm	mm	width A mm	width B mm	per pair <b>kg</b>
M100/25	MM100BL.36.25	MM100SL.36.25	2330	2800	3500	2500	300	360	40
M100/30	MM100BL.36.30	MM100SL.36.30	1750	2000	2330	3000	300	360	42
M100/35	MM100BL.36.35	MM100SL.36.35	1400	1550	1750	3500	300	360	48
M100/40	MM100BL.36.40	MM100SL.36.40	1165	1270	1400	4000	300	360	53
M100/45	MM100BL.36.45	MM100SL.36.45	1000	1075	1165	4500	300	360	61
M100/50	MM100BL.36.50	MM100SL.36.50	875	930	1000	5000	300	360	66
Minimum width	n of the wheel or track	: 200 mm.							
M100/25L	MM100BL.40.25	MM100SL.40.25	2330	2800	3500	2500	340	400	43
M100/30L	MM100BL.40.30	MM100SL.40.30	1750	2000	2330	3000	340	400	52
M100/35L	MM100BL.40.35	MM100SL.40.35	1400	1550	1750	3500	340	400	51
M100/40L	MM100BL.40.40	MM100SL.40.40	1165	1270	1400	4000	340	400	56
M100/45L	MM100BL.40.45	MM100SL.40.45	1000	1075	1165	4500	340	400	64
M100/50L	MM100BL.40.50	MM100SL.40.50	875	930	1000	5000	340	400	70
Minimum width	n of the wheel or track	: 300 mm.							

ANCHORING SYSTEMS



the tab can be positioned along a large portion of the ramp's width, and can turn inside the head connection into which it has been inserted. The system comes with end caps for the head to prevent the tab disconnecting from the ramp during use.

Aluminium tab (standard): The advantage

of this anchoring system lies in the fact that

Steel pin (on request): A galvanised steel pin with a diameter of 14 mm and a 24-mm-diameter head can be inserted through the holes in the standard head connection of the ramp and the loading bed.

Loading capacity per pair  ${\bf kg}$ Wheelbase

1250 mm

3500

2600

1850

1450

1150

1000

1000 mm

3200

2150

1600

1300

1100

900

1500 mm

3500

3200

2150

1600

1300

1050

Length

mm

2000

2500

3000

3500

4000

4500

width

A mm

240

240

240

240

240

240

width

B mm

300

300

300

300

300

300

#### HANDLING SYSTEMS



Nylon handles (on request): The product can be supplied with robust nylon handles to facilitate handling. Available in lengths of 30 cm and 60 cm, according to the model of the product selected.

#### ANCHORING SYSTEMS

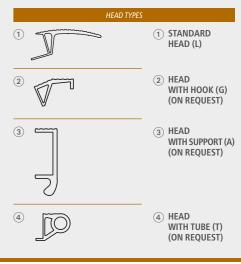


Aluminium tab (standard): The advantage of this anchoring system lies in the fact that the tab can be positioned along a large portion of the ramp's width, and can turn inside the head connection into which it has been inserted. The system comes with end caps for the head to prevent the tab disconnecting from the ramp during use.

bed.

### 





Steel pin (on request): A galvanised steel pin with a diameter of 14 mm and a 24-mm-diameter head can be inserted through the holes in the standard head connection of the ramp and the loading

#### HANDLING SYSTEMS

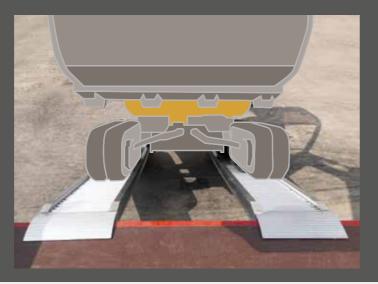


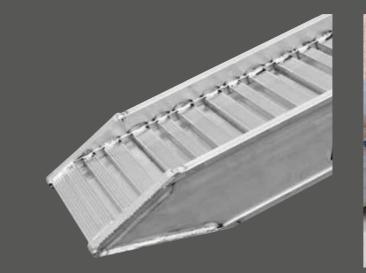
Nylon handles (on request): The product can be supplied with robust nylon handles to facilitate handling. Available in lengths of 30 cm and 60 cm, according to the model of the product selected.

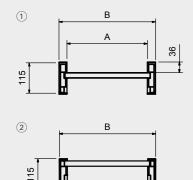
M115 METALMEC

### LOADING RAMPS



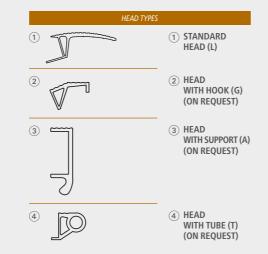


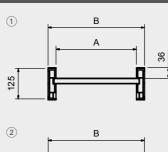


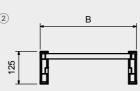


(1) WITH RAISED EDGE

(2) WITHOUT RAISED EDGE







(1) WITH RAISED EDGE (2) WITHOUT RAISED EDGE

			Loadi	ng capacity per pa	air <b>kg</b>				
Model	Iten	n code	Wheelbase			Length	Internal	External	Weight
	with raised edge	without raised edge	1000 mm	1250 mm	1500 mm	mm	width A mm	width <b>B mm</b>	per pair <b>kg</b>
M125/25	MM125BL.36.25	MM125SL.36.25	4500	4500	4500	2500	300	360	47
M125/30	MM125BL.36.30	MM125SL.36.30	3435	3925	4500	3000	300	360	58
M125/35	MM125BL.36.35	MM125SL.36.35	2750	3050	3435	3500	300	360	66
M125/40	MM125BL.36.40	MM125SL.36.40	2290	2500	2750	4000	300	360	73
M125/45	MM125BL.36.45	MM125SL.36.45	1965	2115	2290	4500	300	360	84
M125/50	MM125BL.36.50	MM125SL.36.50	1720	1830	1965	5000	300	360	92
Minimum width	of the wheel or track:	200 mm.							
M125/25L	MM125BL.40.25	MM125SL.40.25	4500	4500	4500	2500	340	400	50
M125/30L	MM125BL.40.30	MM125SL.40.30	3435	3925	4500	3000	340	400	61
M125/35L	MM125BL.40.35	MM125SL.40.35	2750	3050	3435	3500	340	400	69
M125/40L	MM125BL.40.40	MM125SL.40.40	2290	2500	2750	4000	340	400	78
M125/45L	MM125BL.40.45	MM125SL.40.45	1965	2115	2290	4500	340	400	89
M125/50L	MM125BL.40.50	MM125SL.40.50	1720	1830	1965	5000	340	400	97
Minimum width	of the wheel or track:	300 mm.							

#### ANCHORING SYSTEMS



Aluminium tab (standard): The advantage of this anchoring system lies in the fact that the tab can be positioned along a large portion of the ramp's width, and can turn inside the head connection into which it has been inserted. The system comes with end caps for the head to prevent the tab disconnecting from the ramp during use.

bed.

			Loadi	ng capacity per p	air <b>kg</b>				
Model	lte	m code		Wheelbase		Length	Internal	External	Weight per
	with raised edge	without raised edge	1000 mm	1250 mm	1500 mm	mm	width A mm	width B mm	pair <b>kg</b>
M115/25	MM115BL.36.25	MM115SL.36.25	3000	3600	4000	2500	300	360	42
M115/30	MM115BL.36.30	MM115SL.36.30	2250	2570	3000	3000	300	360	45
M115/35	MM115BL.36.35	MM115SL.36.35	1800	2000	2250	3500	300	360	51
M115/40	MM115BL.36.40	MM115SL.36.40	1500	1635	1800	4000	300	360	57
M115/45	MM115BL.36.45	MM115SL.36.45	1285	1385	1500	4500	300	360	65
M115/50	MM115BL.36.50	MM115SL.36.50	1125	1200	1285	5000	300	360	70
Minimum wid	th of the wheel or track	: 200 mm.							
M115/25L	MM115BL.40.25	MM115SL.40.25	3000	3600	4000	2500	340	400	45
M115/30L	MM115BL.40.30	MM115SL.40.30	2250	2570	3000	3000	340	400	54
M115/35L	MM115BL.40.35	MM115SL.40.35	1800	2000	2250	3500	340	400	62
M115/40L	MM115BL.40.40	MM115SL.40.40	1500	1635	1800	4000	340	400	69
M115/45L	MM115BL.40.45	MM115SL.40.45	1285	1385	1500	4500	340	400	78
M115/50L	MM115BL.40.50	MM115SL.40.50	1125	1200	1285	5000	340	400	86
Minimum wid	th of the wheel or track	: 300 mm.							

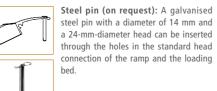
. . . .

#### ANCHORING SYSTEMS



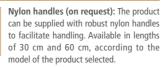
of this anchoring system lies in the fact that the tab can be positioned along a large portion of the ramp's width, and can turn inside the head connection into which it has been inserted. The system comes with end caps for the head to prevent the tab disconnecting from the event & removal ramp during use.

Aluminium tab (standard): The advantage



#### HANDLING SYSTEMS

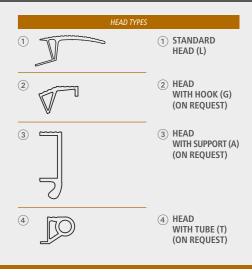
Sec.



### M125 METALMEC







Steel pin (on request): A galvanised steel pin with a diameter of 14 mm and a 24-mm-diameter head can be inserted through the holes in the standard head connection of the ramp and the loading

#### HANDLING SYSTEMS



Nylon handles (on request): The product can be supplied with robust nylon handles to facilitate handling. Available in lengths of 30 cm and 60 cm, according to the model of the product selected.

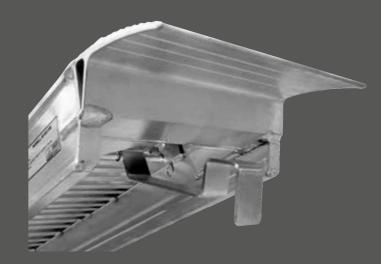
# M140 METALMEC LOADING RAMPS

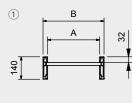


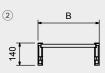
MAX. LOADING CAPACITY PER PAIR: 6000 kg

Created for moving rubber-wheeled vehicles with medium loads used in various sectors, from agriculture to gardening and construction to earthmoving, such as tractors, excavators, dumpers and aerial platforms. Available in various widths and with different types of head connections, they are particularly valued by trailer manufacturers as they are perfectly suited to their needs. The range is made with and without raised edges and the product is supplied with the required anchoring brackets. Upon request, the range without a raised edge can be supplied with a vulcanised rubber covering for the specific handling of compactor rollers and vehicles with steel tracks.

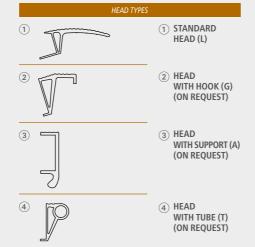


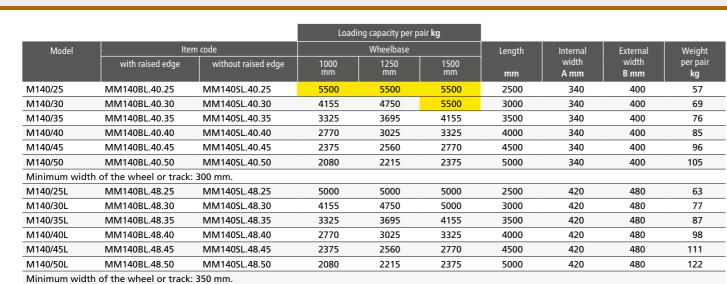






(1) WITH RAISED EDGE (2) WITHOUT RAISED EDGE





			Lo
Model	Item	code	
	with raised edge	without raised edge	1250 mm
M150/25	MM150BL.40.25	MM150SL.40.25	6000
M150/30	MM150BL.40.30	MM150SL.40.30	5890
M150/35	MM150BL.40.35	MM150SL.40.35	4580
M150/40	MM150BL.40.40	MM150SL.40.40	3745
M150/45	MM150BL.40.45	MM150SL.40.45	3170

MM150SL.40.50

MM150BL.40.50

Minimum width of the wheel or track: 300 mm

ANCHORING SYSTEMS

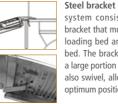
1

(2)

M150/50

(1) WITH RAISED EDGE

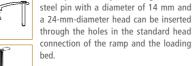
(2) WITHOUT RAISED EDGE



Steel bracket (standard): This anchoring system consists of a galvanised steel bracket that must be inserted between the loading bed and the edge of the loading bed. The bracket can be positioned along a large portion of the ramp's width and can also swivel, allowing it to be placed in the optimum position.

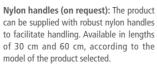
bed.

2750



Steel pin (on request): A galvanised

#### HANDLING SYSTEMS



ANCHORING SYSTEMS

Steel bracket (standard): This anchoring

system consists of a galvanised steel

bracket that must be inserted between the loading bed and the edge of the loading

bed. The bracket can be positioned along

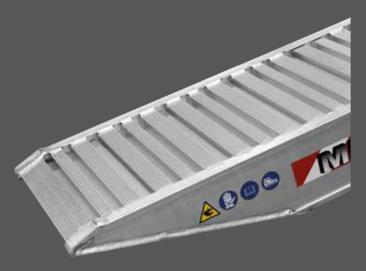
a large portion of the ramp's width and can

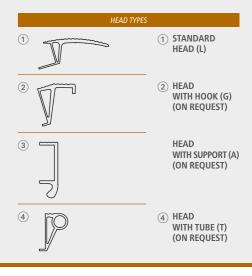
also swivel, allowing it to be placed in the

optimum position.

### M150 METALMEC







oacity per p	air <b>kg</b>				
neelbase		Length	Internal	External	Weight
1500 mm	1750 mm	mm	width A mm	width <b>B mm</b>	per pair <b>kg</b>
6000	6000	2500	340	400	61
6000	6000	3000	340	400	74
5150	5890	3500	340	400	84
4120	4580	4000	340	400	91
3435	3745	4500	340	400	103
2945	3170	5000	340	400	116

#### HANDLING SYSTEMS



Nylon handles (on request): The product can be supplied with robust nylon handles to facilitate handling. Available in lengths of 30 cm and 60 cm, according to the model of the product selected.

### LOADING RAMPS



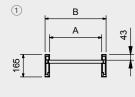
### Max. Loading Capacity PER PAIR: 14,000 kg

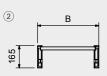
The strongest and most robust ramps in this range are suitable for the movement of machinery with heavy loads used in various sectors, from agriculture to gardening and construction to earthmoving, such as tractors, excavators, bulldozers and aerial platforms. They are also particularly suitable for loading and unloading containers. Available in various widths and with different types of head connections, they are particularly valued by manufacturers of heavy trailers as they are perfectly suited to their needs. The range is made with and without raised edges and the product is supplied with the required anchoring chains. Upon request, the range without a raised edge can be supplied with a vulcanised rubber covering for the specific handling of compactor rollers and vehicles with steel tracks.





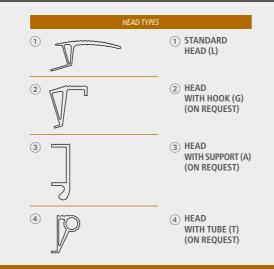
0

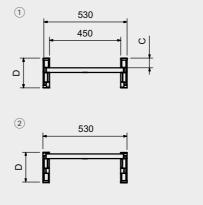




(1) WITH RAISED EDGE

(2) WITHOUT RAISED EDGE





(1) M170 WITH RAISED EDGE (2) M170 WITHOUT RAISED EDGE (1) M185 WITH RAISED EDGE (2) M185 WITHOUT RAISED EDGE

530

450

530

1

(2)

			Loadi	ng capacity per p	air <b>kg</b>				
Model	Item	1 code		Wheelbase		Length	Height of	Height of	Weight
	with raised edge	without raised edge	1500 mm	1750 mm	2000 mm	mm	raised edge C mm	ramp profile D mm	per pair <b>kg</b>
M170/25	MM170BL.53.25	MM170BL.53.25	8300	8300	8300	2500	50	170	84
M170/30	MM170BL.53.30	MM170SL.53.30	8300	8300	8300	3000	50	170	103
M170/35	MM170BL.53.35	MM170SL.53.35	7182	8209	8300	3500	50	170	118
M170/40	MM170BL.53.40	MM170SL.53.40	5745	6385	6385	4000	50	170	127
M170/45	MM170BL.53.45	MM170SL.53.45	4788	5254	5745	4500	50	170	144
M170/50	MM170BL.53.50	MM170SL.53.50	4104	4420	4788	5000	50	170	157
M170/55	MM170BL.53.55	MM170SL.53.55	3591	3830	4104	5500	50	170	170
Minimum widt	n of the wheel or track:	400 mm.							
M185/25	MM185BL.53.25	MM185SL.53.25	10000	10000	10000	2500	57	185	100
M185/30	MM185BL.53.30	MM185SL.53.30	10000	10000	10000	3000	57	185	120
M185/35	MM185BL.53.35	MM185SL.53.35	8876	10000	10000	3500	57	185	136
M185/40	MM185BL.53.40	MM185SL.53.40	7100	7889	8876	4000	57	185	148
M185/45	MM185BL.53.45	MM185SL.53.45	5917	6455	7100	4500	57	185	160
M185/50	MM185BL.53.50	MM185SL.53.50	5072	5462	5917	5000	57	185	175
M185/55	MM185BL.53.55	MM185SL.53.55	4438	4733	5072	5500	57	185	190
Minimum widt	n of the wheel or track:	400 mm.							

#### ANCHORING SYSTEMS



Carabiner clip with steel chain (standard): The steel chain must be hooked to the loading bed using the carabiner clip supplied, and must be inserted into the appropriate attachment system provided under the ramp's driving surface.

bed.

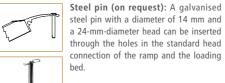
			LUdui	ng capacity per p	all <b>ky</b>				
Model	ltem	1 code		Wheelbase		Length	Internal	External	Weight per
	with raised edge	without raised edge	1250 mm	1500 mm	1750 mm	mm	width A mm	width B mm	pair <b>kg</b>
M165/25	MM165BL.48.25	MM165SL.48.25	6385	6385	6385	2500	420	480	74
M165/30	MM165BL.48.30	MM165SL.48.30	6385	6385	6385	3000	420	480	91
M165/35	MM165BL.48.35	MM165SL.48.35	5620	6325	6385	3500	420	480	103
M165/40	MM165BL.48.40	MM165SL.48.40	4600	5060	5620	4000	420	480	114
M165/45	MM165BL.48.45	MM165SL.48.45	3890	4215	4600	4500	420	480	130
M165/50	MM165BL.48.50	MM165SL.48.50	3375	3615	3890	5000	420	480	142
Minimum width	of the wheel or track:	350 mm.							
M165/25L	MM165BL.51.25	MM165SL.51.25	6385	6385	6385	2500	450	510	76
M165/30L	MM165BL.51.30	MM165SL.51.30	6385	6385	6385	3000	450	510	93
M165/35L	MM165BL.51.35	MM165SL.51.35	5620	6325	6385	3500	450	510	105
M165/40L	MM165BL.51.40	MM165SL.51.40	4600	5060	5620	4000	450	510	118
M165/45L	MM165BL.51.45	MM165SL.51.45	3890	4215	4600	4500	450	510	135
M165/50L	MM165BL.51.50	MM165SL.51.50	3375	3615	3890	5000	450	510	147
Minimum width	of the wheel or track:	400 mm.							

Loading capacity per pair **kg** 

#### ANCHORING SYSTEMS

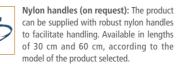


Carabiner clip with steel chain (standard): The steel chain must be hooked to the loading bed using the carabiner clip supplied, and must be inserted into the appropriate attachment system provided under the ramp's driving surface.



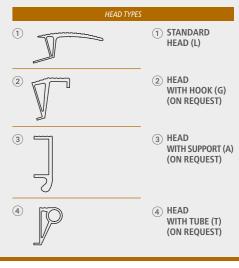
HANDLING SYSTEMS

Sec.



### M170 - M185





#### HANDLING SYSTEMS

Steel pin (on request): A galvanised steel pin with a diameter of 14 mm and a 24-mm-diameter head can be inserted through the holes in the standard head connection of the ramp and the loading

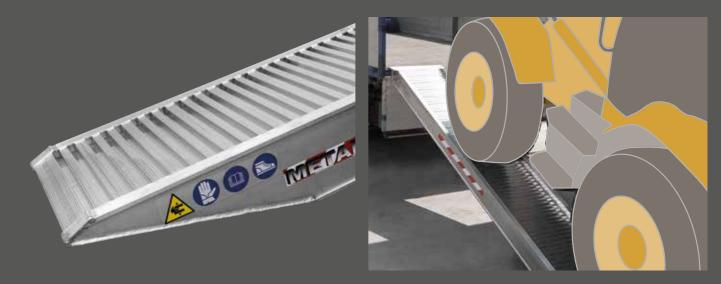


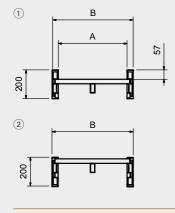
Nylon handles (on request): The product can be supplied with robust nylon handles to facilitate handling. Available in lengths of 30 cm and 60 cm, according to the model of the product selected.

### LOADING RAMPS









(1) WITH RAISED EDGE

Model

M200/25

M200/30

M200/35

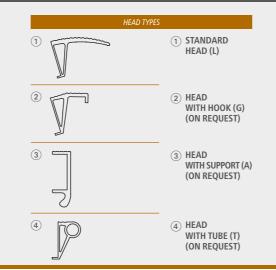
M200/40

M200/45

M200/50

M200/55

(2) WITHOUT RAISED EDGE



Externa

width

B mm

600

600

600

600

600

600

600

width

A mm

500

500

500

500

500

500

500

Veight per

kg

112

137

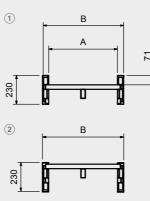
156

174

198

206

223



(1) WITH RAISED EDGE (2) WITHOUT RAISED EDGE

			Load	ling capacity per p	air <b>kg</b>				
Model	Iten	Item code		Wheelbase			Internal	External	Weight
	with raised edge	without raised edge	1500 mm			mm	width A mm	width B mm	per pair <b>kg</b>
M230/25	MM230BL.60.25	MM230SL.60.25	14000	14000	14000	2500	500	600	123
M230/30	MM230BL.60.30	MM230SL.60.30	14000	14000	14000	3000	500	600	150
M230/35	MM230BL.60.35	MM230SL.60.35	14000	14000	14000	3500	500	600	171
M230/40	MM230BL.60.40	MM230SL.60.40	12000	13340	14000	4000	500	600	191
M230/45	MM230BL.60.45	MM230SL.60.45	10008	10918	12000	4500	500	600	219
M230/50	MM230BL.60.50	MM230SL.60.50	8578	9238	10008	5000	500	600	239
M230/55	MM230BL.60.55	MM230SL.60.55	7506	8006	8578	5500	500	600	260
Minimum widt	th of the wheel or track:	450 mm.							

#### ANCHORING SYSTEMS



Carabiner clip with steel chain (standard): The steel chain must be hooked to the loading bed using the carabiner clip supplied, and must be inserted into the appropriate attachment system provided under the ramp's driving surface.

Item code

without raised edge

MM200SL.60.25

MM200SL.60.30

MM200SL.60.35

MM200SL.60.40

MM200SL.60.45

MM200SL.60.50

MM200SL.60.55

with raised edge

MM200BL.60.25

MM200BL.60.30

MM200BL.60.35

MM200BL.60.40

MM200BL.60.45

MM200BL.60.50

MM200BL.60.55

Minimum width of the wheel or track: 450 mm.

Steel pin (on request): A galvanised steel pin with a diameter of 14 mm and a 24-mm-diameter head can be inserted through the holes in the standard head connection of the ramp and the loading bed.

Loading capacity per pair kg Wheelbase

1750 mm

12000

12000

12000

9445

7730

6540

5665

2000 mm

12000

12000

12000

10625

8500

7085

6070

1500 mm

12000

12000

10625

8500

7085

6070

5310

HANDLING SYSTEMS

Sec.

Length

mm

2500

3000

3500

4000

4500

5000

5500



ANCHORING SYSTEMS



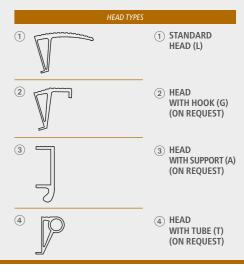
Carabiner clip with steel chain (standard): The steel chain must be hooked to the loading bed using the carabiner clip supplied, and must be inserted into the appropriate attachment system provided under the ramp's driving surface.



34

### 





#### HANDLING SYSTEMS



Nylon handles (on request): The product can be supplied with robust nylon handles to facilitate handling. Available in lengths of 30 cm and 60 cm, according to the model of the product selected.

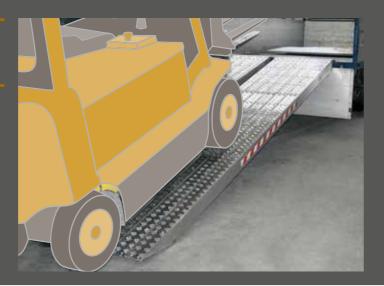
### M120S-AL METALMEC

### LOADING RAMPS

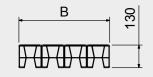


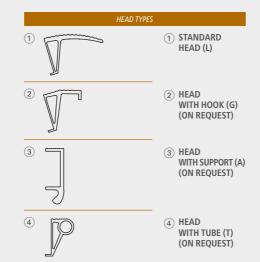
MAX. LOADING CAPACITY PER PAIR: 26,300 kg

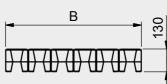
The extruded aluminium profile used in the production of this range of ramps allows the movement of vehicles weighing up to 26 tonnes. Thanks to the quintet sheet metal covering of the M120S-AL series ramps, they are particularly suitable for moving items of equipment with solid rubber tyres or vehicles with rubber tracks. The vulcanised rubber covering of the M120S-R series ramps make them ideal for moving compactor rollers and vehicles with steel tracks. If worn, the coverings can be replaced separately as they are fixed to the ramps with screws. Replacement coverings can be supplied on request. Available in various widths with different types of head connections. The range is made without raised edges and the product is supplied with the required anchoring chains.





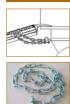




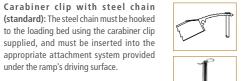


			Loading capacity per pai	r <b>kg</b>			
Model	Item code		Wheelbase		Length	External	Weight
		1500 mm	1750 mm	2000 mm	mm	width B mm	per pair <b>kg</b>
M120S/3/20 AL	MM120SL.36.20	13200	13200	13200	2000	360	81
M120S/3/25 AL	MM120SL.36.25	13200	13200	13200	2500	360	100
M120S/3/30 AL	MM120SL.36.30	9574	11489	13200	3000	360	119
M120S/3/35 AL	MM120SL.36.35	7181	8207	9574	3500	360	137
M120S/3/40 AL	MM120SL.36.40	5744	6383	7181	4000	360	156
M120S/3/45 AL	MM120SL.36.45	4787	5222	5744	4500	360	175
M120S/3/50 AL	MM120SL.36.50	4103	4419	4787	5000	360	194
M120S/3/55 AL	MM120SL.36.55	3590	3829	4103	5500	360	213
M120S/4/20 AL	MM120SL.48.20	17500	17500	17500	2000	480	108
M120S/4/25 AL	MM120SL.48.25	17500	17500	17500	2500	480	133
M120S/4/30 AL	MM120SL.48.30	12766	15319	17500	3000	480	158
M120S/4/35 AL	MM120SL.48.35	9574	10942	12766	3500	480	183
M1205/4/40 AL	MM120SL.48.40	7659	8511	9574	4000	480	208
M120S/4/45 AL	MM120SL.48.45	6383	6963	7659	4500	480	234
M1205/4/50 AL	MM120SL.48.50	5471	5892	6383	5000	480	259
M120S/4/55 AL	MM120SL.48.55	4787	5106	5471	5500	480	284

#### ICHORING SYSTEMS



supplied, and must be inserted into the appropriate attachment system provided under the ramp's driving surface.



Steel pin (on request): A galvanised steel pin with a diameter of 14 mm and a 24-mm-diameter head can be inserted through the holes in the standard head connection of the ramp and the loading bed.

HANDLING SYSTEMS



Nylon handles (on request): The product can be supplied with robust nylon handles to facilitate handling. Available in lengths of 30 cm and 60 cm, according to the model of the product selected.

		L	oading capacity per pai	r <b>kg</b>			
Model	Item code		Wheelbase		Length	External	Weight
		1500 mm	1750 mm	2000 mm	mm	width <b>B mm</b>	per pair <b>kg</b>
M120S/5/20 AL	MM120SL.60.20	21700	21700	21700	2000	600	135
M120S/5/25 AL	MM120SL.60.25	21700	21700	21700	2500	600	166
M120S/5/30 AL	MM120SL.60.30	15958	19149	21700	3000	600	198
M120S/5/35 AL	MM120SL.60.35	11968	13678	15958	3500	600	229
M120S/5/40 AL	MM120SL.60.40	9574	10638	11968	4000	600	260
M120S/5/45 AL	MM120SL.60.45	7979	8704	9574	4500	600	292
M120S/5/50 AL	MM120SL.60.50	6839	7365	7979	5000	600	323
M120S/5/55 AL	MM120SL.60.55	5984	6383	6839	5500	600	355
M120S/6/20 AL	MM120SL.72.20	26300	26300	26300	2000	720	162
M120S/6/25 AL	MM120SL.72.25	26300	26300	26300	2500	720	200
M120S/6/30 AL	MM120SL.72.30	19149	22979	26300	3000	720	237
M120S/6/35 AL	MM120SL.72.35	14362	16414	19149	3500	720	275
M120S/6/40 AL	MM120SL.72.40	11489	12766	14362	4000	720	312
M120S/6/45 AL	MM120SL.72.45	9574	10445	11489	4500	720	350
M120S/6/50 AL	MM120SL.72.50	8207	8838	9574	5000	720	388
M120S/6/55 AL	MM120SL.72.55	7181	7659	8207	5500	720	426
W1203/0/33 AL	WIWI 1203L./2.33	, 101	7035	0207	5500	720	420

#### HORING SYSTEMS



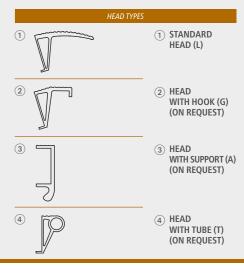
Carabiner clip with steel chain (standard): The steel chain must be hooked to the loading bed using the carabiner clip supplied, and must be inserted into the appropriate attachment system provided under the ramp's driving surface.



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### M120S-AL METALMEC





#### ANDLING SYSTEMS



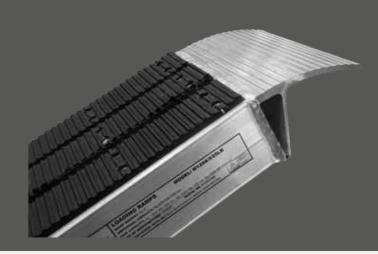
Nylon handles (on request): The product can be supplied with robust nylon handles to facilitate handling. Available in lengths of 30 cm and 60 cm, according to the model of the product selected.

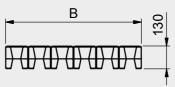
### M120S-R METALMEC

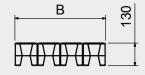
### LOADING RAMPS

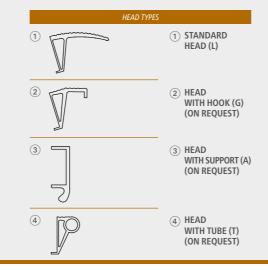






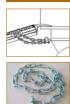




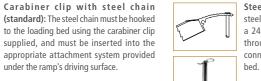


		L.	oading capacity per pair	kg				
Model	Item code		Wheelbase	e Ler		External	Weight	
		1500 mm	1750 mm	2000 mm	mm	width B mm	per pair <b>kg</b>	
M120S/3/20 R	MM121SL.36.20	13200	13200	13200	2000	360	98	
M120S/3/25 R	MM121SL.36.25	13200	13200	13200	2500	360	122	
M120S/3/30 R	MM121SL.36.30	9574	11489	13200	3000	360	146	
M120S/3/35 R	MM121SL.36.35	7181	8207	9574	3500	360	169	
M120S/3/40 R	MM121SL.36.40	5744	6383	7181	4000	360	193	
M120S/3/45 R	MM121SL.36.45	4787	5222	5744	4500	360	217	
M120S/3/50 R	MM121SL.36.50	4103	4419	4787	5000	360	240	
M120S/3/55 R	MM121SL.36.55	3590	3829	4103	5500	360	264	
M120S/4/20 R	MM121SL.48.20	17500	17500	17500	2000	480	131	
M120S/4/25 R	MM121SL.48.25	17500	17500	17500	2500	480	162	
M120S/4/30 R	MM121SL.48.30	12766	15319	17500	3000	480	194	
M120S/4/35 R	MM121SL.48.35	9574	10942	12766	3500	480	226	
M120S/4/40 R	MM121SL.48.40	7659	8511	9574	4000	480	257	
M120S/4/45 R	MM121SL.48.45	6383	6963	7659	4500	480	289	
M120S/4/50 R	MM121SL.48.50	5471	5892	6383	5000	480	320	
M120S/4/55 R	MM121SL.48.55	4787	5106	5471	5500	480	352	

#### ICHORING SYSTEMS



supplied, and must be inserted into the appropriate attachment system provided under the ramp's driving surface.



Steel pin (on request): A galvanised steel pin with a diameter of 14 mm and a 24-mm-diameter head can be inserted through the holes in the standard head connection of the ramp and the loading

HANDLING SYSTEMS

-

#### Nylon handles (on request): The product can be supplied with robust nylon handles to facilitate handling. Available in lengths of 30 cm and 60 cm, according to the model of the product selected.

		Lo	ading capacity per pair	kg			
Model	Item code		Wheelbase		Length	External	Weight
		1500 mm	1750 mm	2000 mm	mm	width B mm	per pair <b>kg</b>
M120S/5/20 R	MM121SL.60.20	21700	21700	21700	2000	600	163
M120S/5/25 R	MM121SL.60.25	21700	21700	21700	2500	600	203
M120S/5/30 R	MM121SL.60.30	15958	19149	21700	3000	600	243
M120S/5/35 R	MM121SL.60.35	11968	13678	15958	3500	600	282
M120S/5/40 R	MM121SL.60.40	9574	10638	11968	4000	600	321
M120S/5/45 R	MM121SL.60.45	7979	8704	9574	4500	600	361
M120S/5/50 R	MM121SL.60.50	6839	7365	7979	5000	600	400
M120S/5/55 R	MM121SL.60.55	5984	6383	6839	5500	600	440
M120S/6/20 R	MM121SL.72.20	26300	26300	26300	2000	720	196
M120S/6/25 R	MM121SL.72.25	26300	26300	26300	2500	720	244
M120S/6/30 R	MM121SL.72.30	19149	22979	26300	3000	720	291
M120S/6/35 R	MM121SL.72.35	14362	16414	19149	3500	720	339
M120S/6/40 R	MM121SL.72.40	11489	12766	14362	4000	720	385
M120S/6/45 R	MM121SL.72.45	9574	10445	11489	4500	720	433
M120S/6/50 R	MM121SL.72.50	8207	8838	9574	5000	720	480
M120S/6/55 R	MM121SL.72.55	7181	7659	8207	5500	720	528

#### HORING SYSTEMS

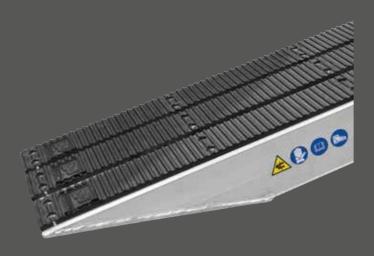


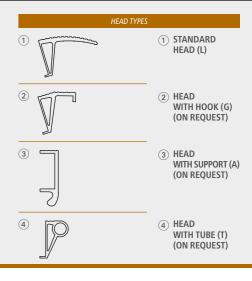
Carabiner clip with steel chain (standard): The steel chain must be hooked to the loading bed using the carabiner clip supplied, and must be inserted into the appropriate attachment system provided under the ramp's driving surface.

bed.

### M120S-R METALMEC







#### ANDLING SYSTEMS



Nylon handles (on request): The product can be supplied with robust nylon handles to facilitate handling. Available in lengths of 30 cm and 60 cm, according to the model of the product selected.

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### LOADING RAMPS

#### PRODUCT FAMILY: MAX. LOADING CAPACITY PER PAIR: M105F M120F M130F 58,000 kg

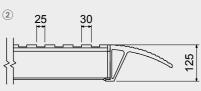
To meet the requirements of people who need to move vehicles with very heavy loads safely, Metalmec has designed this range of products which, together with the profiles used and the mechanical processes implemented in their production, ensure excellent performance. The range comes milled in 50/50 mm steps as standard and is particularly suitable for moving heavy vehicles with steel tracks. On request, the product can be milled in short 25/30 mm steps should the user wish to move heavy vehicles with solid rubber wheels. Available in various widths and with different types of head connections, they are particularly valued by manufacturers of heavy trailers as they are perfectly suited to their needs. The range is made without raised edges and the product is supplied with the required anchoring chains.











Loading capacity per pair kg Wheelbase

1500 mm

21500

21500

21500

13720

9145

6860

5485

4575

3920

2000 mm

21500

21500

21500

18000

13720

9145

6860

5485

4575

(1) STEP 50/50 (STANDARD) 2 SPECIAL STEP 25/30 (ON REQUEST)

1000

21500

21500

13720

9145

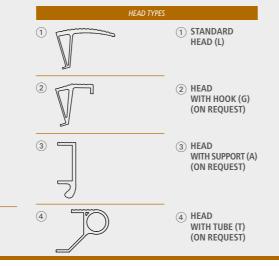
6860

5485

4575

3920

3430



width

B mm

390

390

390

390

390

390

390

390

390

per pai

kg

41

57

73

89

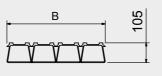
105

121

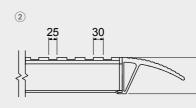
137

153

168







(1) STEP 50/50 (STANDARD) (2) SPECIAL STEP 25/30 (ON REQUEST)

		Lo	ading capacity per pair	kg			
Model	Item code		Wheelbase		Length	External	Weight
		1000 mm	1500 mm	2000 mm	mm	width B mm	per pair <b>kg</b>
M105F/520/1000	MM105SL.52.10	29000	29000	29000	1000	520	55
M105F/520/1500	MM105SL.52.15	29000	29000	29000	1500	520	76
M105F/520/2000	MM105SL.52.20	18290	29000	29000	2000	520	98
M105F/520/2500	MM105SL.52.25	12195	18290	22000	2500	520	119
M105F/520/3000	MM105SL.52.30	9145	12195	18290	3000	520	140
M105F/520/3500	MM105SL.52.35	7315	9145	12195	3500	520	161
M105F/520/4000	MM105SL.52.40	6095	7315	9145	4000	520	183
M105F/520/4500	MM105SL.52.45	5225	6095	7315	4500	520	204
M105F/520/5000	MM105SL.52.50	4575	5225	6095	5000	520	225

#### ANCHORING SYSTEMS

Model

M105F/390/1000

M105F/390/1500

M105F/390/2000

M105F/390/2500

M105F/390/3000

M105F/390/3500

M105F/390/4000

M105F/390/4500

M105F/390/5000



Carabiner clip with steel chain (standard): The steel chain must be hooked to the loading bed using the carabiner clip supplied, and must be inserted into the appropriate attachment system provided under the ramp's driving surface.

Item code

MM105SL.39.10

MM105SL.39.15

MM105SL.39.20

MM105SL.39.25

MM105SL.39.30

MM105SL 39.35

MM1055L 39.40

MM105SL.39.45

MM105SL.39.50



Steel pin (on request): A galvanised steel pin with a diameter of 14 mm and a 24-mm-diameter head can be inserted through the holes in the standard head connection of the ramp and the loading bed.

#### HANDLING SYSTEMS

Sec.

Length

mm

1000

1500

2000

2500

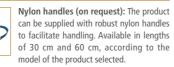
3000

3500

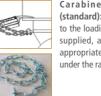
4000

4500

5000



ANCHORING SYSTEMS

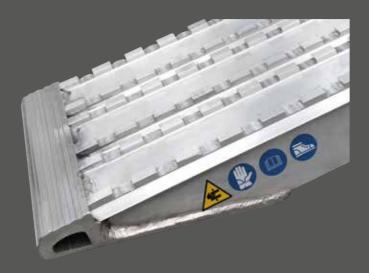


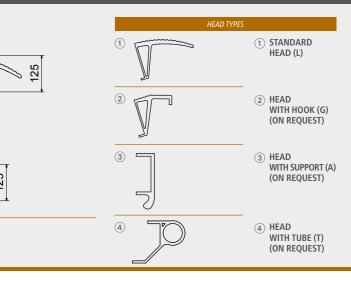
Carabiner clip with steel chain (standard): The steel chain must be hooked to the loading bed using the carabiner clip supplied, and must be inserted into the appropriate attachment system provided under the ramp's driving surface.



### M105F METALMEC







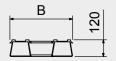
#### HANDLING SYSTEMS



Nylon handles (on request): The product can be supplied with robust nylon handles to facilitate handling. Available in lengths of 30 cm and 60 cm, according to the model of the product selected.

### LOADING RAMPS





Model

M120F/390/1000

M120F/390/1500

M120F/390/2000

M120F/390/2500

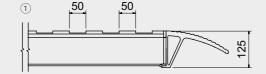
M120F/390/3000

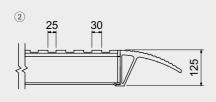
M120F/390/3500

M120F/390/4000

M120F/390/4500

M120F/390/5000





Loading capacity per pair **kg** Wheelbase

1500 mm

21500

21500

21500

13410

8940

6705

5365

4470

3830

2000 mm

21500

21500

21500

18000

13410

8940

6705

5365

4470

(1) STEP 50/50 (STANDARD) 2 SPECIAL STEP 25/30 (ON REQUEST)

1000

21500

21500

13410

8940

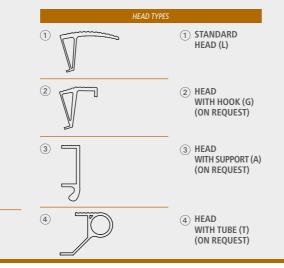
6705

5365

4470

3830

3350



width

B mm

390

390

390

390

390

390

390

390

390

per pai

kg

39

52

67

81

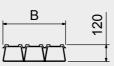
94

107

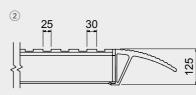
122

136

149







(1) STEP 50/50 (STANDARD) (2) SPECIAL STEP 25/30 (ON REQUEST)

		L	oading capacity per pai	r <b>kg</b>			
Model	Item code		Wheelbase		Length	External	Weight
		1000 mm	1500 mm	2000 mm	mm	width B mm	per pair <b>kg</b>
M120F/450/1000	MM122SL.45.10	29000	29000	29000	1000	450	51
M120F/450/1500	MM122SL.45.15	29000	29000	29000	1500	450	71
M120F/450/2000	MM122SL.45.20	20115	29000	29000	2000	450	91
M120F/450/2500	MM122SL.45.25	13410	20115	22000	2500	450	112
M120F/450/3000	MM122SL.45.30	10055	13410	20115	3000	450	132
M120F/450/3500	MM122SL.45.35	8045	10055	13410	3500	450	152
M120F/450/4000	MM122SL.45.40	6705	8045	10055	4000	450	172
M120F/450/4500	MM122SL.45.45	5745	6705	8045	4500	450	192
M120F/450/5000	MM122SL.45.50	5030	5745	6705	5000	450	212

#### ANCHORING SYSTEMS



Carabiner clip with steel chain (standard): The steel chain must be hooked to the loading bed using the carabiner clip supplied, and must be inserted into the appropriate attachment system provided under the ramp's driving surface.

Item code

MM122SL.39.10

MM122SL.39.15

MM122SL.39.20

MM122SL.39.25

MM122SL.39.30

MM122SL.39.35

MM122SL.39.40

MM122SL.39.45

MM122SL.39.50



Steel pin (on request): A galvanised steel pin with a diameter of 14 mm and a 24-mm-diameter head can be inserted through the holes in the standard head connection of the ramp and the loading bed.

HANDLING SYSTEMS

Sec.

Length

mm

1000

1500

2000

2500

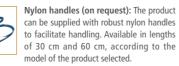
3000

3500

4000

4500

5000



ANCHORING SYSTEMS



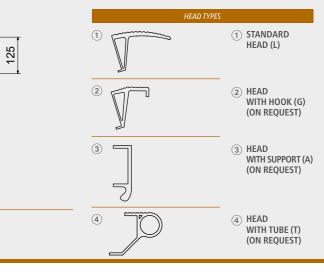
Carabiner clip with steel chain (standard): The steel chain must be hooked to the loading bed using the carabiner clip supplied, and must be inserted into the appropriate attachment system provided under the ramp's driving surface.



### M120F METALMEC







#### HANDLING SYSTEMS



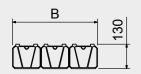
Nylon handles (on request): The product can be supplied with robust nylon handles to facilitate handling. Available in lengths of 30 cm and 60 cm, according to the model of the product selected.

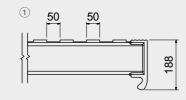
### LOADING RAMPS

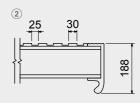






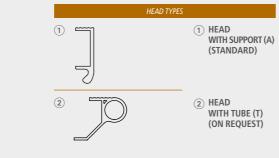


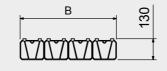




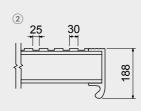
(1) STEP 50/50 (STANDARD)

2 SPECIAL STEP 25/30 (ON REQUEST)









(1) STEP 50/50 (STANDARD) 2 SPECIAL STEP 25/30 (ON REQUEST)

		L	oading capacity per pai	r <b>kg</b>			
Model	Item code		Wheelbase		Length	External	Weight
		1000 mm	1500 mm	2000 mm	mm	width <b>B mm</b>	per pair <b>kg</b>
M130F/450/1000	MM130SA.45.10	50000	50000	50000	1000	465	64
M130F/450/1500	MM130SA.45.15	40000	40000	40000	1500	465	91
M130F/450/2000	MM130SA.45.20	27000	40000	40000	2000	465	117
M130F/450/2500	MM130SA.45.25	17000	23000	34000	2500	465	144
M130F/450/3000	MM130SA.45.30	13300	17500	26200	3000	465	170
M130F/450/3500	MM130SA.45.35	10700	13100	18000	3500	465	197
M130F/450/4000	MM130SA.45.40	8800	10300	14000	4000	465	224
M130F/450/4500	MM130SA.45.45	7400	8500	10500	4500	465	250
M130F/450/5000	MM130SA.45.50	6500	7400	8500	5000	465	277

		L	oading capacity per pai	r <b>kg</b>			
Model	Item code	Wheelbase			Length	External	Weight
		1000 mm	1500 mm	2000 mm	mm	width B mm	per pair <b>kg</b>
M130F/600/1000	MM130SA.60.10	58000	58000	58000	1000	615	85
M130F/600/1500	MM130SA.60.15	46500	50000	50000	1500	615	121
M130F/600/2000	MM130SA.60.20	37000	45000	50000	2000	615	156
M130F/600/2500	MM130SA.60.25	27000	34000	48000	2500	615	192
M130F/600/3000	MM130SA.60.30	19500	25000	36000	3000	615	227
M130F/600/3500	MM130SA.60.35	15800	19000	26100	3500	615	263
M130F/600/4000	MM130SA.60.40	13100	15600	19000	4000	615	298
M130F/600/4500	MM130SA.60.45	10000	11000	12000	4500	615	334
M130F/600/5000	MM130SA.60.50	8500	9500	10500	5000	615	370

#### ICHORING SYSTEMS



Carabiner clip with steel chain (standard): The steel chain must be hooked to the loading bed using the carabiner clip supplied, and must be inserted into the appropriate attachment system provided under the ramp's driving surface.

#### ANDLING SYSTEMS



Nylon handles (on request): The product can be supplied with robust nylon handles to facilitate handling. Available in lengths of 30 cm and 60 cm, according to the model of the product selected.

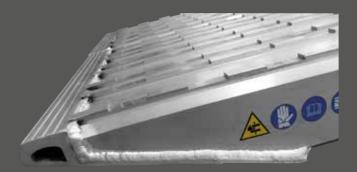
#### CHORING SYSTEMS

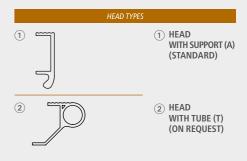


Carabiner clip with steel chain (standard): The steel chain must be hooked to the loading bed using the carabiner clip supplied, and must be inserted into the appropriate attachment system provided under the ramp's driving surface.

### 







#### HANDLING SYSTEMS



Nylon handles (on request): The product can be supplied with robust nylon handles to facilitate handling. Available in lengths of 30 cm and 60 cm, according to the model of the product selected.

# RAMPS BRIDGES AND TAIL LIFTS



able to meet professional requirements for loading and unloading vehicles and equipment, particularly those of logistics companies, differences, our range of standard or customised products is sure to goods transport vehicle suppliers and truck/trailer manufacturers. With the ability to move vehicles weighing between 300 kg and of quality, durability and safety.

The range of ramps, bridges and tail lifts produced by Metalmec is 7500 kg (manual pallet trucks, electric pallet trucks, forklifts, etc.), whatever your needs for overcoming positive or negative height provide you with a solution that will guarantee you the best in terms

### HOW TO DETERMINE THE LENGTH OF THE BRIDGE OR TAIL LIFT

During use, the inclination ( $\alpha$ ) of the bridge or tail lift must not exceed a maximum slope of 12.5% (in accordance with the UNI EN 1398:2009 standard). In order to establish the minimum length (L) of the bridge or tail lift to a good approximation, apply the following formula:

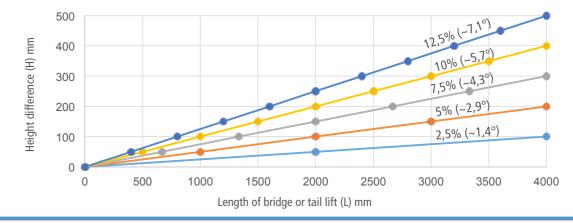
LENGTH OF BRIDGE OR	HEIGHT DIFFERENCE IN MILLIMETRES (H) X 10
TAIL LIFT IN	% MAXIMUM SLOPE (α)
MILLIMETRES (L)	

Height difference (H) refers to the height of the loading bed from the fulcrum of the bridge or tail lift.

The maximum slope ( $\alpha$ ) depends on the vehicle used during the loading and unloading activity. In this respect we recommend, for EXAMPLE: Let's assume we need to overcome a height difference (H) of 100 mm using an electric pallet truck. By applying the formula indicated above, we obtain: LENGTH OF BRIDGE OR TAIL LIFT IN select a bridge or tail lift with a minimum length of 1250 mm.

safe operation, the following maximum slopes based on some of the vehicles used in logistics: 4% for manual pallet trucks, 8% for walk-behind electric pallet MILLIMETRES (L) = 100 mm x 100 / 8 = 1250 mm You must therefore trucks and 12% for electric ride-on forklifts.

The diagram clearly shows the dimensions used to determine the length of the bridge or tail lift and their interrelationships expressed by the formula above.



### NOTES

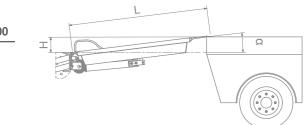
• In order to ensure a minimum safety clearance on each side of the transport • If the loading dock foundation is made of concrete or similar, a minimum vehicle, the width of the bridge or tail lift must be at least 0.70 m greater than strength class of C25/30 is advised, which means the concrete has the track width of the vehicle in transit/transport, and in any event not less  $Fck = 25 N/mm^2$  and  $Rck = 30 N/mm^2$  (in accordance with the than 1.25 m (in accordance with the UNI EN 1398:2009 standard). In order UNI EN 206-1:2006 and UNI 11104:2004 standards). to ensure greater safety conditions for the operators, it is recommended to • The instructions for use and maintenance are described in the instruction use a bridge or tail lift with a width equal to that of the vehicle's loading bed. and warning manual supplied with the product.

- The support ends or "heads" must rest on at least 0.10 m of the loading/ unloading dock and loading bed of the vehicle.
- Transit is only permitted for vehicles with rubber wheels or tracks.
- could come into contact with the structure of the bridge or tail lift.

• For the MS040G loading bridges, a loading dock foundation strength greater than 1.6 kg/cm<sup>2</sup> is advised.

### OPTIONS

- The guide rail is available on request in 3 m long bars of rough, non-galvanised
- Bridges and tail lifts are available in the dimensions shown on the following stated, please contact us directly.



• The manufacturer's declaration of conformity is an integral part of the instruction and warning manual.

• For all information regulating the supply of these products, please refer • Transit is strictly prohibited to any vehicles with metal tracks or metal parts that to the manufacturer's General Conditions of Sale at the following website: www.metalmecsrl.it

product pages (width B greater than or equal to 1250 mm, in accordance with the UNI EN 1398:2009 standard). If you require products with different dimensions from those

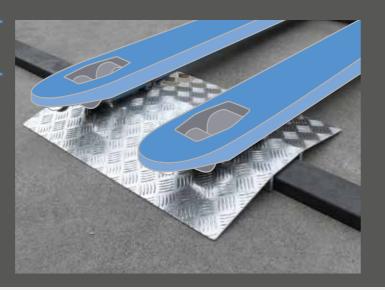
### **BRIDGE ACCESS RAMPS**

# WEDGE ACCESS RAMPS

PRODUCT FAMILY: MBAP

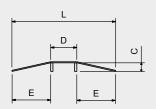
### Max. Loading Capacity: 450 kg/m<sup>2</sup>

This range of bridge access ramps, made with non-slip aluminium quintet tread plates welded together, is used to help wheeled equipment, such as hand-pushed trolleys, manual pallet trucks, etc. to overcome obstacles on the ground, such as pipes and cable ducts. Its light weight means that the product can be quickly and easily moved to another position as required. The dimensions may vary according to specific needs.

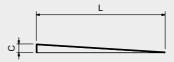


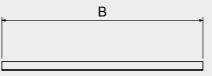
PRODUCT FAMILY:	MAX. LOADING CAPACITY:
MBAC	2920 kg

This type of wedge access ramp, made with non-slip aluminium quintet tread plates welded together, is used to help wheeled equipment, such as hand-pushed trolleys, manual pallet trucks and electric pallet trucks, to overcome steps. Its light weight and the slots on each side mean that the product can be quickly and easily moved to another position as required. The dimensions may vary according to specific needs.









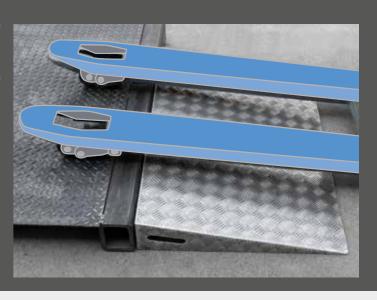
l-	В	لم
-		1

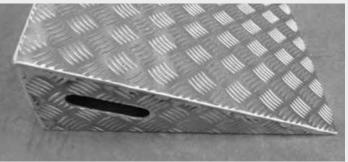
Model	Item code	Loading capacity <b>kg/m</b> ²	Length L* mm	Width B* mm	Height C* mm	D* mm	E* mm	Weight <b>kg</b>	
MBAP1	MM550S0.70.05	450	490	700	40	120	185	4	
* Dimensions can	* Dimensions can be modified according to your load requirements. Please contact us for further details.								

Model	Item code	Loading capacity <b>kg</b>	Length L* mm	Width <b>B* mm</b>	Min./max. height C** mm	Weight <b>kg</b>	
MBAC1	MM560S0.10.05	430	500	1000	10 / 70	10	
MBAC2	MM560S0.10.06	430	650	1000	71 / 120	14	
MBAC3	MM560S0.12.05	2920	500	1250	30 / 70	13	
MBAC4	MM560S0.12.08	2920	800	1250	71 / 120	22	
* Dimensions can be modified according to your load requirements. Please contact us for further details.							
** Height C to be specified in your request for quotation/purchase order.							

### 







### LOADING BRIDGES

PRODUCT FAMILY:	MAX. LOADING CAPACITY PER PAI
SH	7500 kg

This range of short ramps has been designed for use in various product sectors, from logistics to construction. In the logistics sector, the short ramps are ideal for electric pallet truck or forklift users who need to overcome small differences in height (between 120 and 400 mm). With loading capacities of up to 7500 kg, they lend themselves perfectly to the loading and unloading of containers. Similarly, in the construction sector, the ramps are ideal for enabling light machinery with rubber wheels or tracks to overcome low-level obstacles. The range is only available without raised edges.

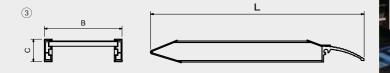


PRODUCT FAMILY:	Max. Loading Capacity:
MPL	1300 kg

The removable loading bridges, made with non-slip aluminium quintet tread plates welded together, are particularly suitable for logistics applications when there is a need to move hand-pushed trolleys and manual pallet trucks from the logistics platform loading dock to the loading bed of the goods transport vehicle and vice versa. Its light weight means that the product can be quickly and easily moved to another position as required. The standard range allows the user to overcome height differences of up to 230 mm.

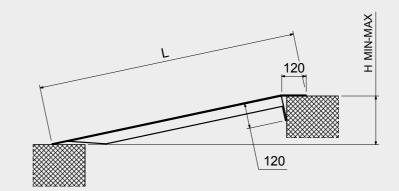












External width **B mm** Model Loading capacity Length Height of ramp Overall height of Min./max. loading Weight per per pai **kg** profile C mm ramp D mm height mm paii kg Lmm M040B2/05SHF MM500SL.21.05 1250 500 215 40 55 120 / 150 6 M040B2/08SHF MM500SL.21.08 1250 800 215 40 55 160 / 180 8 M040B3/05SHF MM500SL.31.05 2000 500 315 40 55 120 / 150 8 M040B3/08SHF MM500SL.31.08 800 55 160 / 180 2000 315 40 12 M080/05SH MM500SL.30.05 3000 506 300 80 80 120 / 150 10 M080/08SH MM500SL.30.08 810 80 160 / 180 13 3000 300 80 M140/10SH MM500SL.50.10 7500 1000 500 140 140 170/210 34 M150/12SH MM500SL.50.12 7500 1256 500 150 150 220 / 260 41 M150/15SH MM500SL.50.15 7500 1500 500 150 150 270/310 48 M150/17SH MM500SL.50.17 7500 1760 500 150 150 320 / 360 56 M165/20SH MM500SL.50.20 7500 2000 500 165 165 370 / 400 69

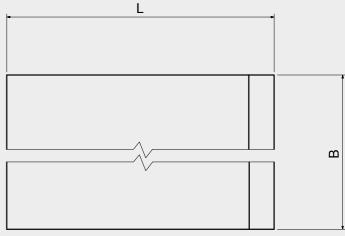
Model	Item code	Max. loading capacity	Length L mm	Width B mm	Min./max. loading height	Weight <b>kg</b>
		kg	LIIIII	DIIIII	mm	ку
MPL0750L	MM570S0.12.07	610	750	1250	0 / 90	13
MPL1000L	MM570S0.12.10	610	1000	1250	50 / 120	17
MPL1200L	MM570S0.12.12	610	1200	1250	60 / 150	20
MPL1500L	MM570S0.12.15	610	1500	1250	80 / 190	25
MPL1800L	MM570S0.12.18	610	1800	1250	100 / 230	30
MPL0750H	MM580S0.12.07	1300	750	1250	0 / 90	20
MPL1000H	MM580S0.12.10	1300	1000	1250	50 / 120	27
MPL1200H	MM58050.12.12	1300	1200	1250	60 / 150	33
MPL1500H	MM580S0.12.15	1300	1500	1250	80 / 190	41
MPL1800H	MM580S0.12.18	1300	1800	1250	100 / 230	49

(1) MODEL B2 2 MODEL B3 ③ MODEL M080









### LOADING BRIDGES

MS030 – 2TL METALMEC

# LOADING BRIDGES

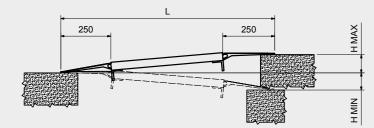
PRODUCT FAMILY:	MAX. LOADING CAPACITY
MS030 – 2TL	5000 kg
MS040 – 2TL	

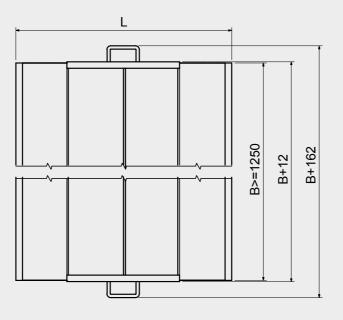
This range of removable loading bridges has been created with special extruded aluminium profiles that have a knurled, non-slip surface. The bridges are suitable for high-performance logistics applications which require the movement of electric pallet trucks and forklifts from the loading dock of the logistics platform to the loading bed of the goods transport vehicle and vice versa. The side handles, fitted as standard, mean that the product can be quickly and easily moved to another position as required. The standard range allows vehicles with a loading capacity of up to 5000 kg to overcome height differences of up to 120 mm.

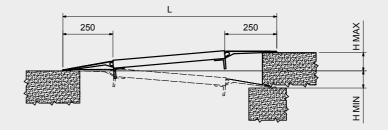
OADING CAPACITY:









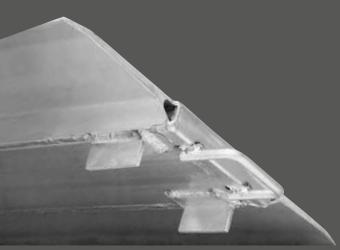


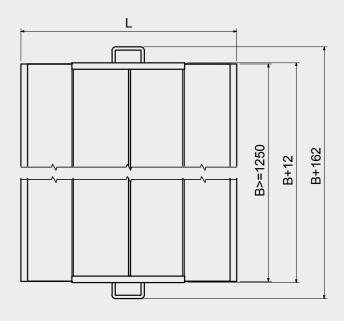
Model	Item code	Max. loading capacity	Length	Width (minimum: 1250 mm)	Min./max. loading height	Weight
		kg	Lmm	B mm	mm	kg
MS0302TL/625/1250	MM650S0.12.06	3420	627	1250	-75 / 75	22
MS0302TL/750/1250	MM650S0.12.07	2895	752	1250	-90 / 90	24
MS0302TL/875/1250	MM650S0.12.08	2510	877	1250	-105 / 105	28
MS0302TL/1000/1250	MM650S0.12.10	2210	1002	1250	-120 / 120	32
MS0302TL/625/1500	MM650S0.15.06	3420	627	1500	-75 / 75	26
MS0302TL/750/1500	MM650S0.15.07	2895	752	1500	-90 / 90	29
MS0302TL/875/1500	MM650S0.15.08	2510	877	1500	-105 / 105	33
MS0302TL/1000/1500	MM650S0.15.10	2210	1002	1500	-120 / 120	38
Other dimensions availa	able on request.					

Model	Item code	Max. loading capacity <b>kg</b>	Length L mm	Width (minimum: 1250 mm) B mm	Min./max. loading height <b>mm</b>	Weight kg
MS0402TL/625/1250	MM750S0.12.06	5000	627	1250	-75 / 75	28
MS0402TL/750/1250	MM750S0.12.07	4800	752	1250	-90 / 90	34
MS0402TL/875/1250	MM750S0.12.08	4550	877	1250	-105 / 105	39
MS0402TL/1000/1250	MM750S0.12.10	4250	1002	1250	-120 / 120	43
MS0402TL/625/1500	MM750S0.15.06	5000	627	1500	-75 / 75	33
MS0402TL/750/1500	MM750S0.15.07	4800	752	1500	-90 / 90	41
MS0402TL/875/1500	MM750S0.15.08	4550	877	1500	-105 / 105	47
MS0402TL/1000/1500	MM750S0.15.10	4250	1002	1500	-120 / 120	51
Other dimensions avail	able on request.					









### LOADING BRIDGES

### MS040 G METALMEC

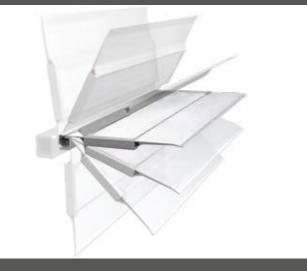
# TAIL LIFTS

PRODUCT FAMILY:	Max. Loading (
MS040 G	5000

The MS040G family of loading bridges, which slide along a rail, are ideal for use in logistics applications for loading and unloading onto the dock. Made with robust, extruded aluminium profiles that have a knurled, non-slip surface, they can be easily moved to the appropriate position by simply sliding them along the guide rail. When not in use, they should be placed in a vertical position, with the safety catch fastened to prevent the bridges from falling. The standard range allows vehicles with a loading capacity of use to Source and medium bailed. with a loading capacity of up to 5000 kg to overcome small and medium height differences of up to 110 mm.

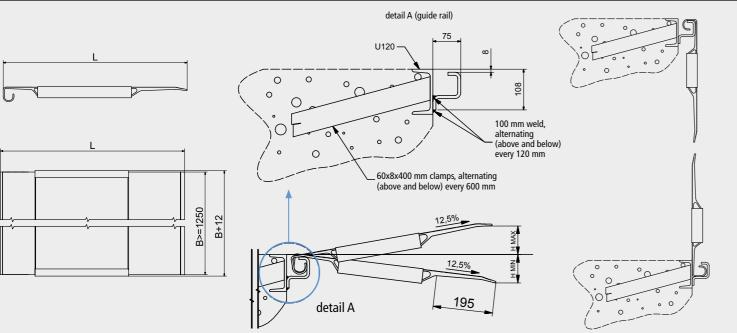
CAPACITY:

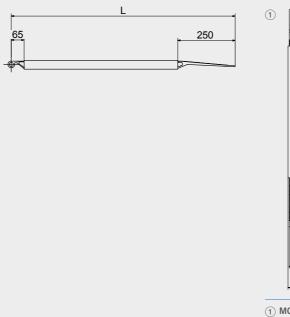
kg



#### MAX. LOADING CAPACITY: PRODUCT FAMILY: MS030 AC – MS030 AL 4170 kg

This range of hinged tail lifts, with a thickness of 30 mm, comes with two types of fastening to fix the tail lift to the vehicle's loading bed: steel and aluminium. Made using robust extruded aluminium profiles that have a knurled, non-slip surface, they are particularly valued by manufacturers of transport vehicles and are ideally suited to loading and unloading goods using electric pallet trucks and forklift trucks.





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	1 -
B>:	=1250
В	+ 12
-	
ODEL WITH STEEL HI	NGES

Model	Item code	Max. loading capacity	Length	Width (minimum: 1250 mm)	Min./max. loading height	Weight
		kg	Lmm	B mm	mm	kg
MS040G/535/1250	MM800S0.12.05	5000	535	1250	-55 / 55	24
MS040G/660/1250	MM800S0.12.06	5000	660	1250	-70 / 70	29
MS040G/785/1250	MM800S0.12.07	5000	785	1250	-95 / 95	34
MS040G/910/1250	MM800S0.12.09	5000	910	1250	-110 / 110	39
MS040G/535/1500	MM800S0.15.05	5000	535	1500	-55 / 55	29
MS040G/660/1500	MM800S0.15.06	5000	660	1500	-70 / 70	35
MS040G/785/1500	MM800S0.15.07	5000	785	1500	-95 / 95	41
MS040G/910/1500	MM800S0.15.09	5000	910	1500	-110 / 110	47
Other dimensions ava	ilable on request.					

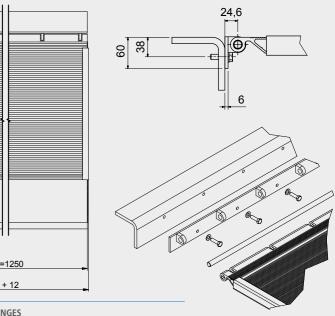
Model	Item code	Max. loading capacity <b>kg</b>	Length <b>L mm</b>	Width (minimum: 1250 mm) B mm	Weight kg/m
MS030AC/565	MM600S0.12.05	4170	565	From 1250 mm on request	19
MS030AC/690	MM600S0.12.06	3420	690	From 1250 mm on request	21
MS030AC/815	MM600S0.12.08	2890	815	From 1250 mm on request	25
MS030AC/940	MM600S0.12.09	2510	940	From 1250 mm on request	27
MS030AC/1065	MM600S0.12.10	2210	1065	From 1250 mm on request	30
MS030AC/1190	MM600S0.12.11	1980	1190	From 1250 mm on request	34
MS030AC/1315	MM600S0.12.13	1790	1315	From 1250 mm on request	36
MS030AC/1565	MM600S0.12.15	1300	1565	From 1250 mm on request	42
MS030AC/1690	MM600S0.12.16	1100	1690	From 1250 mm on request	45
MS030AC/1815	MM60050.12.18	950	1815	From 1250 mm on request	48
MS030AC/2065	MM600S0.12.20	720	2065	From 1250 mm on request	54
Other dimensions av	ailable on request.				



### MS030 AC METALMEC







### TAIL LIFTS

### MS030 AL METALMEC

# TAIL LIFTS



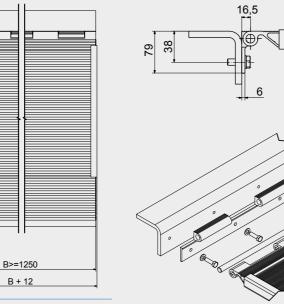
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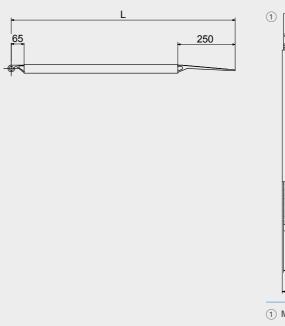
This range of hinged tail lifts, with a thickness of 40 mm, comes with two types of fastening to fix the tail lift to the vehicle's loading bed: steel and aluminium. Made using robust extruded aluminium profiles that have a knurled, non-slip surface, they are particularly valued by manufacturers of transport vehicles and are ideally suited to loading and unloading goods using electric pallet trucks and forklift trucks.





(1) MODEL WITH ALUMINIUM HINGES

B + 12



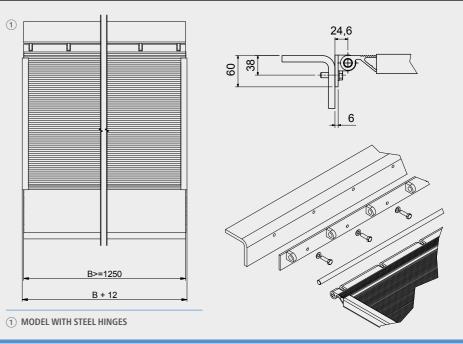
Model	Item code	Max. loading capacity <b>kg</b>	Length L mm	Width (minimum: 1250 mm) <b>B mm</b>	Weight kg/m
MS040AC/565	MM700S0.12.05	4800	565	From 1250 mm on request	23
MS040AC/690	MM700S0.12.06	4550	690	From 1250 mm on request	27
MS040AC/815	MM700S0.12.08	4250	815	From 1250 mm on request	31
MS040AC/940	MM700S0.12.09	3950	940	From 1250 mm on request	35
MS040AC/1065	MM700S0.12.10	3700	1065	From 1250 mm on request	39
MS040AC/1190	MM700S0.12.11	3450	1190	From 1250 mm on request	43
MS040AC/1315	MM700S0.12.13	3150	1315	From 1250 mm on request	47
MS040AC/1565	MM700S0.12.15	2700	1565	From 1250 mm on request	55
MS040AC/1690	MM700S0.12.16	2400	1690	From 1250 mm on request	59
MS040AC/1815	MM700S0.12.18	2100	1815	From 1250 mm on request	63
MS040AC/2065	MM700S0.12.20	1600	2065	From 1250 mm on request	71
Other dimensions ava	ailable on request.				

Model	Item code	Max. loading capacity	Length	Width (minimum: 1250 mm)	Weight
		kg	Lmm	B mm	kg/m
MS030AL/565	MM601S0.12.05	4170	565	From 1250 mm on request	19
MS030AL/690	MM601S0.12.06	3420	690	From 1250 mm on request	21
MS030AL/815	MM601S0.12.08	2890	815	From 1250 mm on request	25
MS030AL/940	MM601S0.12.09	2510	940	From 1250 mm on request	27
MS030AL/1065	MM601S0.12.10	2210	1065	From 1250 mm on request	30
MS030AL/1190	MM601S0.12.11	1980	1190	From 1250 mm on request	34
MS030AL/1315	MM601S0.12.13	1790	1315	From 1250 mm on request	36
MS030AL/1565	MM601S0.12.15	1300	1565	From 1250 mm on request	42
MS030AL/1690	MM601S0.12.16	1100	1690	From 1250 mm on request	45
MS030AL/1815	MM601S0.12.18	950	1815	From 1250 mm on request	48
MS030AL/2065	MM601S0.12.20	720	2065	From 1250 mm on request	54
Other dimensions ava	ailable on request.				

### MS040 AC METALMEC







# TAIL LIFTS

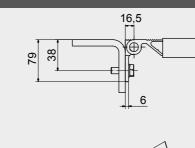
# MS040 AL METALMEC



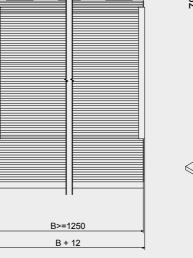




1







1 model with aluminium hinges

Model	Item code	Max. loading capacity	Length	Width (minimum: 1250 mm)	Weight
		kg	Lmm	B mm	kg/m
MS040AL/565	MM701S0.12.05	4800	565	From 1250 mm on request	23
MS040AL/690	MM701S0.12.06	4550	690	From 1250 mm on request	27
MS040AL/815	MM701S0.12.08	4250	815	From 1250 mm on request	31
MS040AL/940	MM701S0.12.09	3950	940	From 1250 mm on request	35
MS040AL/1065	MM701S0.12.10	3700	1065	From 1250 mm on request	39
MS040AL/1190	MM701S0.12.11	3450	1190	From 1250 mm on request	43
MS040AL/1315	MM701S0.12.13	3150	1315	From 1250 mm on request	47
MS040AL/1565	MM701S0.12.15	2700	1565	From 1250 mm on request	55
MS040AL/1690	MM701S0.12.16	2400	1690	From 1250 mm on request	59
MS040AL/1815	MM701S0.12.18	2100	1815	From 1250 mm on request	63
MS040AL/2065	MM701S0.12.20	1600	2065	From 1250 mm on request	71





### RAMPS AND GANGWAYS FOR OVERCOMING ARCHITECTURAL BARRIERS



and passage over architectural barriers (or temporary/permanent overcoming obstacles or height differences, our range of standard physical obstacles that hinder people's movements, particularly those who suffer from reduced or impaired mobility) both in private guarantees you the best in terms of quality, durability and safety.

The solutions offered by Metalmec are able to guarantee accessibility residential buildings and in public spaces. Whatever your needs for or customised products is sure to provide you with a solution that

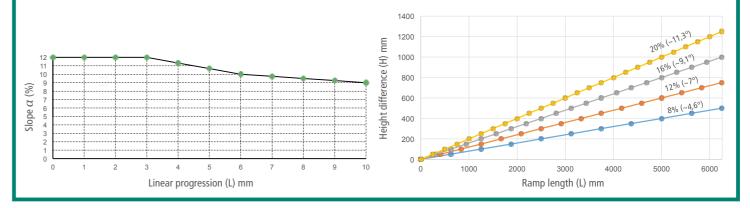
### HOW TO DETERMINE THE LENGTH OF THE RAMP

During use, the inclination ( $\alpha$ ) of the ramp must not exceed a maximum slope of 8% (in accordance with Italian Legislative Decree no. 13 of 09.01.1989 and Ministerial Decree no. 236 of 14.06.1989). In order to establish the minimum length (L) to a good approximation, apply the following formula:

#### RAMP LENGTH IN MILLIMETRES (L) =

Height difference (H) refers to the height of the obstacle from the ground. EXAMPLE: Let's assume we need to overcome a height difference (H) of 200 mm. By applying the formula indicated above, we obtain: RAMP LENGTH IN MILLIMETRES (L) = 200 mm x 100 / 8 = 2500 mm A ramp with a minimum length of 2500 mm must therefore be selected.

In case of adaptation, the aforementioned Italian regulation allows The following diagram clearly shows the dimensions used to determine the length of the ramps and their interrelationships for steeper slopes in relation to the linear progression of the ramp. expressed by the formula above. However, the ratio between slope and length must be of a lower value than what is shown by the interpolation line on the following graph (example: in case of adaptation, a maximum slope of 12% is permitted for lengths equal to or less than 3000 mm).



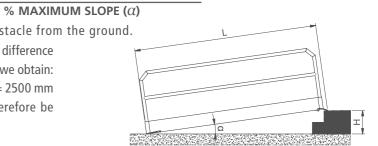
### NOTES

- Our gangways meet the requirements of Italian Legislative Decree no. 13 of 09.01.1989 and Ministerial Decree no. 236 of 14.06.1989.
- There must be a minimum support of 0.33 m at each end of the gangway.
- Transit on the driveways is only permitted for vehicles with rubber wheels or tracks.
- Use the driveways for wheeled vehicles that have a minimum wheel width of 0.2 x 0.2 m.
- Use the driveways for tracked vehicles that have a minimum track width of 0.2 m.
- Transit is strictly prohibited to any vehicles with metal tracks or metal parts that could come into contact with the structure of the driveway.

#### OPTIONS

• Items are available in the dimensions specified on the following product pages. If you require products with different dimensions from those stated, please contact us directly.

### HEIGHT DIFFERENCE IN MILLIMETRES (H) X 100



• For the driveways, the maximum distribution permitted on the vehicle's front and rear axles is 40% - 60% respectively (50% - 50% is considered ideal).

• The instructions for use and maintenance are described in the instruction and warning manual supplied with the product.

• The manufacturer's declaration of conformity is an integral part of the instruction and warning manual.

• For all information regulating the supply of these products, please refer to the manufacturer's General Conditions of Sale at the following website: www.metalmecsrl.it.

### **BRIDGE ACCESS RAMPS**

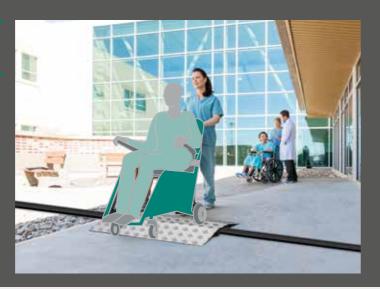
# WEDGE ACCESS RAMPS

PRODUCT FAMILY:

MBAP

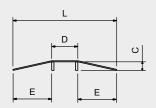
### MAX. LOADING CAPACITY: 450 kg/m<sup>2</sup>

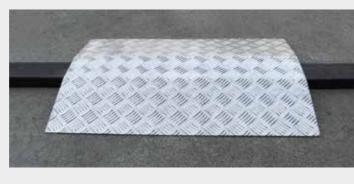
This range of bridge access ramps, made with non-slip, aluminium quintet tread plates welded together, allows wheelchair users to easily overcome small obstacles on the ground, such as skirting boards and door thresholds, pipes and cable ducts. Its light weight means that the product can be quickly and easily moved to another position as required. The dimensions may vary according to specific needs.

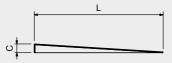


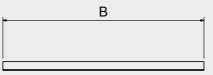


This type of wedge access ramp, made with non-slip aluminium quintet tread plates welded together, allows wheelchair users to easily overcome small steps and door thresholds. Its light weight and the slots on each side mean that the product can be quickly and easily moved to another position as required. The dimensions may vary according to specific needs.









1-	В	
		1

Model	Item code	Loading capacity <b>kg/m</b> ²	Length L* mm	Width B* mm	Height C* mm	D* mm	E* mm	Weight <b>kg</b>		
MBAP1	MM550S0.70.05	450	490	700	40	120	185	4		
* Dimensions can	* Dimensions can be modified according to your load requirements. Please contact us for further details.									

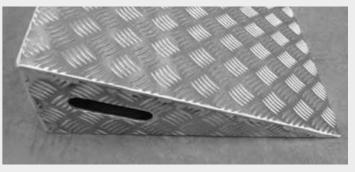
Model	Item code	Loading capacity <b>kg</b>	Length L* mm	Width B* mm	Min./max. height C** mm	Weight <b>kg</b>
MBAC1	MM560S0.10.05	430	500	1000	10 / 70	10
MBAC2	MM560S0.10.06	430	650	1000	71 / 120	14

\*\* Height C to be specified in your request for quotation/purchase order.

### 







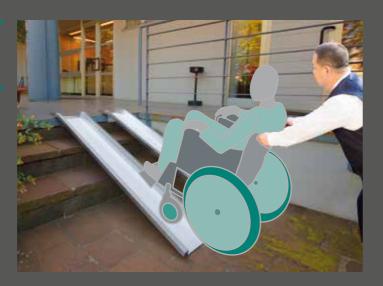
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### **PEDESTRIAN RAMPS**



Max. Loading capacity PER PAIR: 1500 kg

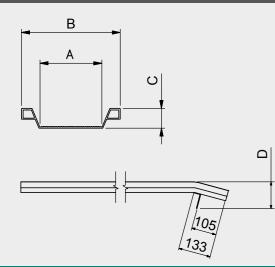
These aluminium ramps offer an excellent compromise between high load capacity and low weight. They are robust, easy to handle and have a non-slip surface, obtained through coining. With an internal width of 155 mm and 45 mm containment edges, these ramps are particularly suitable for wheelchair users. The particular shape of the profile allows the ramps to be stacked one inside the other for ease of storage during transport. To further optimise transport inside vehicles with small luggage compartments, this range of ramps can be supplied either as a hinged, folding version, or as a bayonet coupling version. With the hinged, folding version, the loading capacity reduces to 300 kg per pair for all lengths.



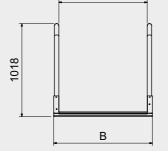
### PRODUCT FAMILY: MPPI

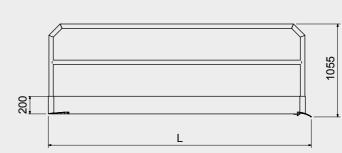


This range of pedestrian ramps with handrails, made using special extruded aluminium profiles, are ideal in various contexts, from private residential use to public applications. They allow people (particularly wheelchair users) to overcome various architectural barriers such as long staircases and very high steps. They are equipped with an non-slip transit surface, folding handrails and safety footstops. In addition, the particular shapes of the bottom end and the head allow the user to adjust the ramp to a wide range of slopes, depending on the required application.



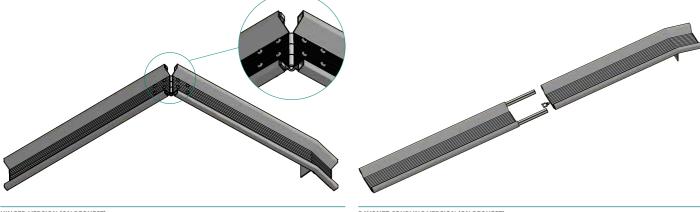






		Loadir	ng capacity per	pair <b>kg</b>						
Model	Item code	Wheelbase		Length	Length Internal	External	Height of	Overall ramp	Weight per	
		0 mm	500 mm	1000 mm	mm	width A mm	width B mm	raised edge C mm	dimensions D mm	pair <b>kg</b>
M050/10	MM050B0.25.10	800	1500	1500	1000	155	246	45	100	9
M050/15	MM050B0.25.15	800	1479	1500	1500	155	246	45	100	13
M050/20	MM050B0.25.20	739	986	1479	2000	155	246	45	100	17
M050/25	MM050B0.25.25	532	665	887	2500	155	246	45	100	20
M050/30	MM050B0.25.30	419	503	628	3000	155	246	45	100	24
M050/35	MM050B0.25.35	346	404	485	3500	155	246	45	100	28
With the hinged, f	olding version, the loadin	g capacity re	duces to 300	kg per pair	for all length	s.				

Model Loading capacity Item code Length L mm kg/m<sup>2</sup> MM360BL.10.10 MPPI10/10 400 990 MPPI14/10 MM360BL.10.14 400 1390 MPPI20/10 MM360BL.10.20 400 1990 MPPI24/10 MM360BL.10.24 400 2390 MPPI30/10 MM360BL.10.30 400 2990 MPPI38/10 MM360BL.10.38 400 3790 MPPI48/10 400 MM360BL.10.48 4790 MPPI58/10 MM360BL.10.58 400 5790



HINGED VERSION (ON REQUEST)

BAYONET COUPLING VERSION (ON REOUEST)







Internal width A mm	External width <b>B mm</b>	Weight per piece <b>kg</b>
1000	1120	32
1000	1120	41
1000	1120	54
1000	1120	62
1000	1120	75
1000	1120	92
1000	1120	114
1000	1120	136

# VEHICLE ACCESSIBLE RAMPS

### WALKWAYS

PRODUCT FAMILY:

MPI

MAX. LOADING CAPACITY: 4500 kg

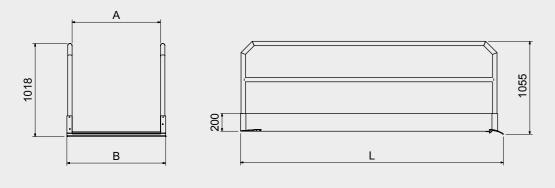
This range of vehicle accessible ramps with handrails, made using special extruded aluminium profiles, is particularly suitable for overcoming architectural barriers such as height differences due to trenches or public works. They allow access over these obstacles not only to people but also, and more importantly, to construction site vehicles with rubber wheels or tracks. In order to meet the requirements of the task, the ramps are equipped with an non-slip transit surface, folding handrails and safety footstops. In addition, the particular shapes of the bottom end and the head allow the user to adjust the ramp to a wide range of slopes, depending on the required application.

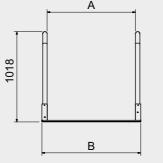


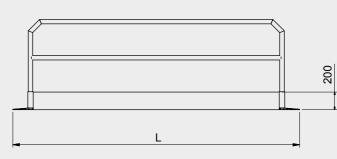
PRODUCT FAMILY: MPP



This range of walkways with handrails, made using special extruded aluminium profiles, allows people to overcome architectural barriers such as trench pits. Equipped with a non-slip transit surface, folding handrails and safety footstops, they are particularly suitable for horizontal use.







Model	Item code	Loading capacity	Loading capacity	Length	Internal width	External width	Weight per piece
		750 mm wide tracked vehicle with 1000 mm wheelbase	900 mm wide wheeled vehicle with 750 mm wheelbase				
		kg	kg	Lmm	A mm	B mm	kg
MPI10/10	MM310BL.10.10	3000	4500	990	1000	1120	34
MPI14/10	MM310BL.10.14	3000	4500	1390	1000	1120	44
MPI20/10	MM310BL.10.20	3000	4500	1990	1000	1120	59
MPI24/10	MM310BL.10.24	3000	3514	2390	1000	1120	69
MPI30/10	MM310BL.10.30	2746	2375	2990	1000	1120	84
MPI38/10	MM310BL.10.38	1830	1658	3790	1000	1120	104
MPI48/10	MM310BL.10.48	1292	1204	4790	1000	1120	130
MPI58/10	MM310BL.10.58	998	945	5790	1000	1120	156
MPI10/12	MM310BL.12.10	1500	1432	990	1250	1370	38
MPI14/12	MM310BL.12.14	1500	1432	1390	1250	1370	49
MPI20/12	MM310BL.12.20	1500	1432	1990	1250	1370	67
MPI24/12	MM310BL.12.24	1500	1432	2390	1250	1370	78
MPI30/12	MM310BL.12.30	1500	1432	2990	1250	1370	95
MPI38/12	MM310BL.12.38	1500	1432	3790	1250	1370	118
MPI48/12	MM310BL.12.48	1292	1204	4790	1250	1370	147
MPI58/12	MM310BL.12.58	998	945	5790	1250	1370	176

Model	Item code	Loading capacity kg/m <sup>2</sup>	Length <b>L mm</b>	Internal width A mm	External width <b>B mm</b>	Max. trench width mm	Weight per piece <b>kg</b>
MPP12/10	MM350B0.10.12	400	1260	1000	1120	600	34
MPP16/10	MM350B0.10.16	400	1660	1000	1120	1000	43
MPP22/10	MM350B0.10.22	400	2260	1000	1120	1600	56
MPP26/10	MM350B0.10.26	400	2660	1000	1120	2000	64
MPP32/10	MM350B0.10.32	400	3255	1000	1120	2600	77
MPP40/10	MM350B0.10.40	400	4055	1000	1120	3400	94
MPP50/10	MM350B0.10.50	400	5055	1000	1120	4400	115
MPP60/10	MM350B0.10.60	400	6055	1000	1120	5400	136











# DRIVEWAYS



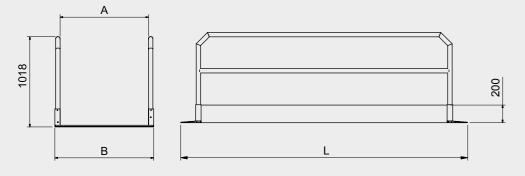


Max. Loading Capacity:

4500 kg

This range of driveways with handrails, made using special extruded aluminium profiles, is particularly suitable for overcoming architectural barriers such as trench pits. They allow access over these obstacles not only to people but also, and more importantly, to construction site vehicles with rubber wheels or tracks. Equipped with a non-slip transit surface, folding handrails and safety footstops, they are particularly suitable for horizontal use.





Model Item code		Loading capacity	Loading capacity	Length	Internal	External	Max. trench	Weight
		750 mm wide tracked vehicle with 1000 mm wheelbase	900 mm wide wheeled vehicle with 750 mm wheelbase		width	width	width	per piece
		kg	kg	Lmm	A mm	B mm	mm	kg
MP12/10	MM300B0.10.12	3000	4500	1260	1000	1120	600	37
MP16/10	MM300B0.10.16	3000	4500	1660	1000	1120	1000	47
MP22/10	MM300B0.10.22	3000	4500	2260	1000	1120	1600	62
MP26/10	MM300B0.10.26	3000	3514	2660	1000	1120	2000	72
MP32/10	MM300B0.10.32	2746	2375	3255	1000	1120	2600	87
MP40/10	MM300B0.10.40	1830	1658	4055	1000	1120	3400	107
MP50/10	MM300B0.10.50	1292	1204	5055	1000	1120	4400	132
MP60/10	MM300B0.10.60	998	945	6055	1000	1120	5400	157
MP12/12	MM300B0.12.12	1500	1432	1260	1250	1370	600	41
MP16/12	MM300B0.12.16	1500	1432	1660	1250	1370	1000	52
MP22/12	MM300B0.12.22	1500	1432	2260	1250	1370	1600	70
MP26/12	MM300B0.12.26	1500	1432	2660	1250	1370	2000	81
MP32/12	MM300B0.12.32	1500	1432	3255	1250	1370	2600	98
MP40/12	MM300B0.12.40	1500	1432	4055	1250	1370	3400	121
MP50/12	MM300B0.12.50	1292	1204	5055	1250	1370	4400	149
MP60/12	MM300B0.12.60	998	945	6055	1250	1370	5400	178



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