



TIPEDANE
TMA s.r.l.

TO



ADVANTAGES OF ALUMINUM

Aluminum owns characteristics and economic advantages that make it better than the other metals and allows particular uses too. In fact, as the Ministry of Health emphasizes, it is widely recommended especially for applications in the food industry, either by manufacturers and users.

The several qualities could be resumed in four main aspects:

First of all ENDURANCE mechanical and against corrosion.

In fact a plate in aluminum could substitute a steel one with a remarkable reduction of weight. In the case of ramps, it makes transport, placing and use easier. Moreover the utility of any metal is limited if it doesn't own a certain resistance to the corrosion. Aluminum resists better to the chemical agents and in this sense it's considered **the most economic metal**. In the same way generally it generally keeps such a characteristic in industrial and rural environment, especially where there's often use of salt, water, blood and solvents.

Another aspect to analyse is NON-TOXICITY of this metal and its salts.

If we add the fact that the aluminium doesn't sparkle when it's rubbed against other metals, it's easy to understand why it's preferred in the inflammables and the explosives fields.

The AESTHETIC factor has to be considered too.

In fact aluminum is a clean material, it looks good with no need of further finishing treatments and its surface can be varnished, anodised or treated with a wide range of coverings.

RECYCLING: in fact almost all industry products come from recycled aluminium, and this material is almost always recyclable, with many advantages for the owners and for environment of course.

These are the main reasons why this material is considered the one.

RULES, STANDARDS & PRINCIPLES FOR A GOOD CHOICE



CHOOSING THE RIGHT CAPACITY

Tm Pedane's ramps capacity has been calculated and tested basically considering the main types of load listed by UNI EN 1398/2009 law:

RATED LOAD = GOODS + FORKLIFT + DRIVER (adding a dynamic factor $\phi = 1,4$ this becomes DYNAMIC CAPACITY).

EQUALLY DISTRIBUTED LOAD tested on nominal load = RATED LOAD + 2.1 SAFETY FACTOR (rules require 1.5).

POINT/AXLE LOAD = RATED LOAD CALCULATED ON 2 WHEELS WITH 150X150mm contact area at 1mt lateral distance

A leveller has suitable capacity only if expected **RATED LOAD** is **beneath ramp CERTIFIED CAPACITY**.

BEWARE: as axle load is calculated by law on 2 wheels shared load, it is really important to communicate us whether loading ramps are intended to be used with 3 WHEELS FORKLIFTS, in order to consider if it is necessary to add CENTRAL REINFORCEMENT.

For example, in a normal loading situation for hydraulic dock levelers there ought to be a 3500kg forklift, with standard max 1500kg pallets and an average 100kg operator, so a 5100kg rated load.

In facts, NEW OIL dock levelers have standard 6000kg maximum capacity.

BUILDING PRINCIPLES FOR A GOOD CHOICE:

MAXIMUM ALLOWED SLOPE: 12,5% - 7° (Cap. 5.2.2) Es.: gradient 300mm ----> $300 / 0,125 =$ plate length 2400mm.

MINIMUM ALLOWED WIDTH: 1250mm (Cap 5.2.4.1).

BINDING PRESENCE OF "MECHANICAL DEVICES TO PREVENT THEM FROM FALLING DOWN" (Cap. 5.2.5).

ADJUSTING TO LOADING SURFACE TO AVOID TRIPPING HAZARDS (Cap. 5.2.6).

Hinged lip or, in case of side-sloping surfaces, segmented lip.

BINDING PRESENCE OF "AUTOMATIC SAFETY DEVICES to avoid uncontrolled and dangerous lowering" (cap. 5.4.1).

BINDING PRESENCE OF "SIDE PANELS TO AVOID CRUSHING/SHEARING OF FEET (cap. 5.2.9).

Presence of DEVICES to lighten movement and operation of dock boards with weight over 500N (5.3.3).

BINDING PRESENCE OF STRUCTURAL BARRIERS against lateral falling and **PROFILE TO PREVENT FROM CRUSHING BY DOCKING TRUCKS** (UNI EN 349 STANDARD).

Above listed standards it is absolutely important to **PREVENT FROM UNCONTROLLED MOVEMENT OF THE TRUCK** during load/unload procedures, through:

- wheels blocking with chocks connected with caution lights (see ACCESSORIES - STOP&GO)
- instructing the loading staff (drivers included) to leave truck keys always on a showcase and to pick them up only after loading procedures completion.

ADVANTAGES OF ALUMINUM

RULES, STANDARDS & PRINCIPLES FOR A GOOD CHOICE

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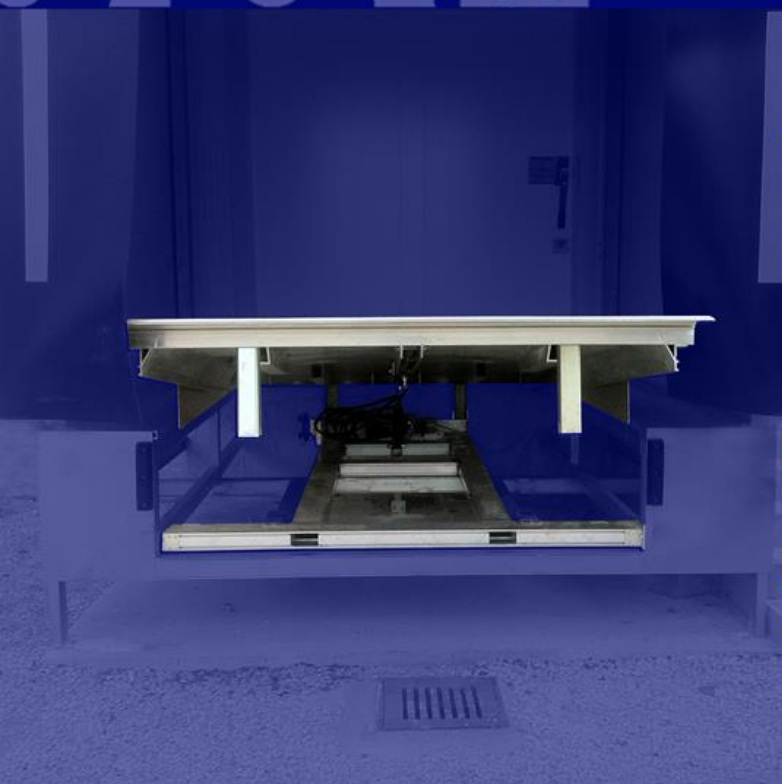
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TAM2F - TAM3F - TAMSPEC - TAM-IPE - TAM-U - TAM-EXT - GOLIATH - VT

SUPPLY TERMS

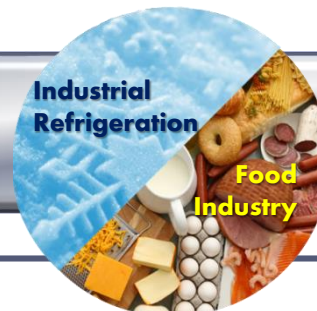
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ELECTRO-HYDRAULIC DOCK LEVELERS



Innovation

NEW OIL



Tm Pedane presents **2** main advantages of our innovative and unique electro-hydraulic dock leveler, **NEW OIL**.

1 EASIER MOVING

NEW OIL proves lighter and handier, having a holes system that allows it to be picked up and positioned without a crane, you can use just **ONE FORKLIFT**

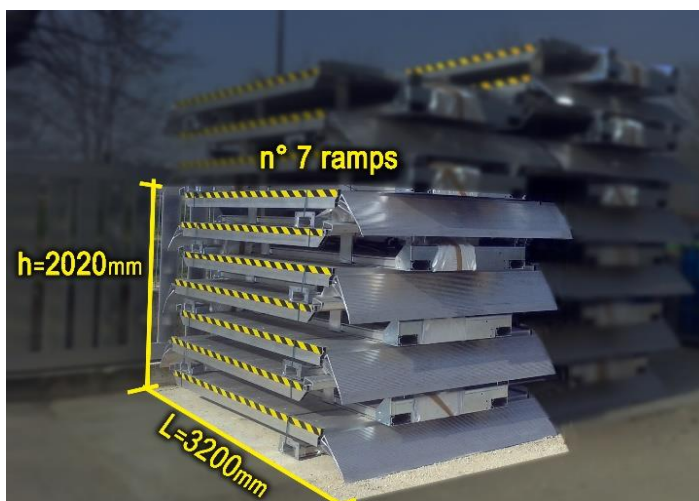
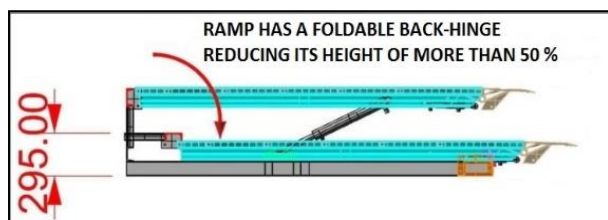


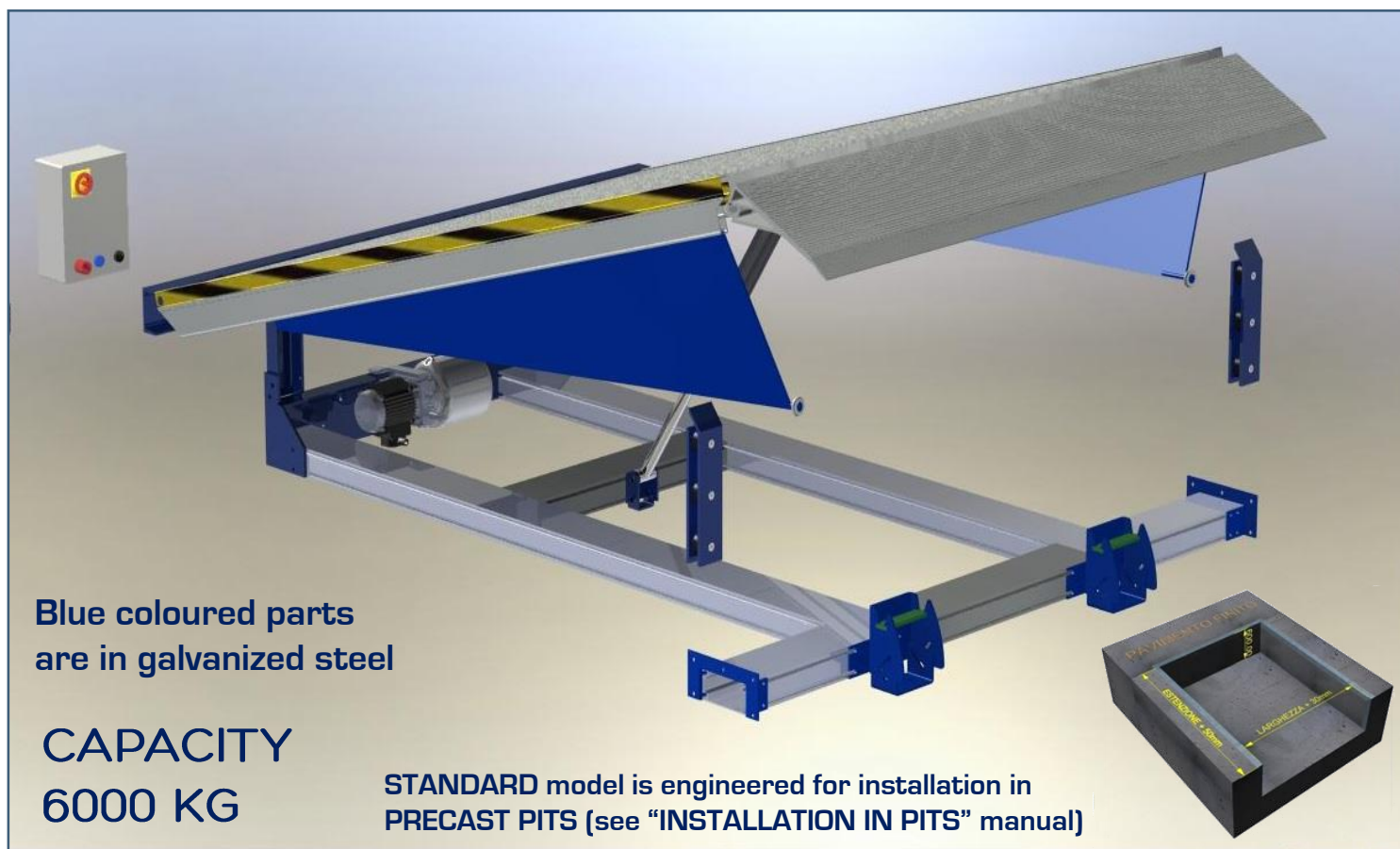
2 CHEAPER TRANSPORT

NORMAL LEVELERS WITH BOXFRAME H 600mm
TRUCK L:13,5m/40ft = **15** ramps 2mx2,5m

VS

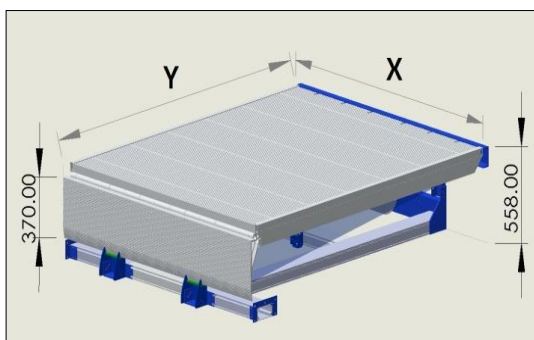
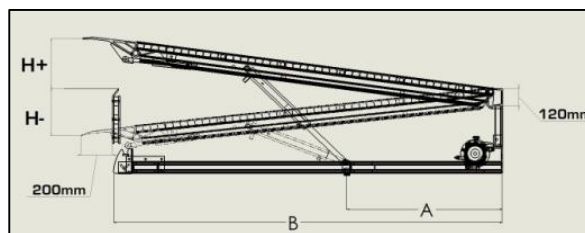
NEW OIL STANDARD: H 300mm
truck L:13,5m/40ft = **28** ramps 2mx2,5m





DETAILS

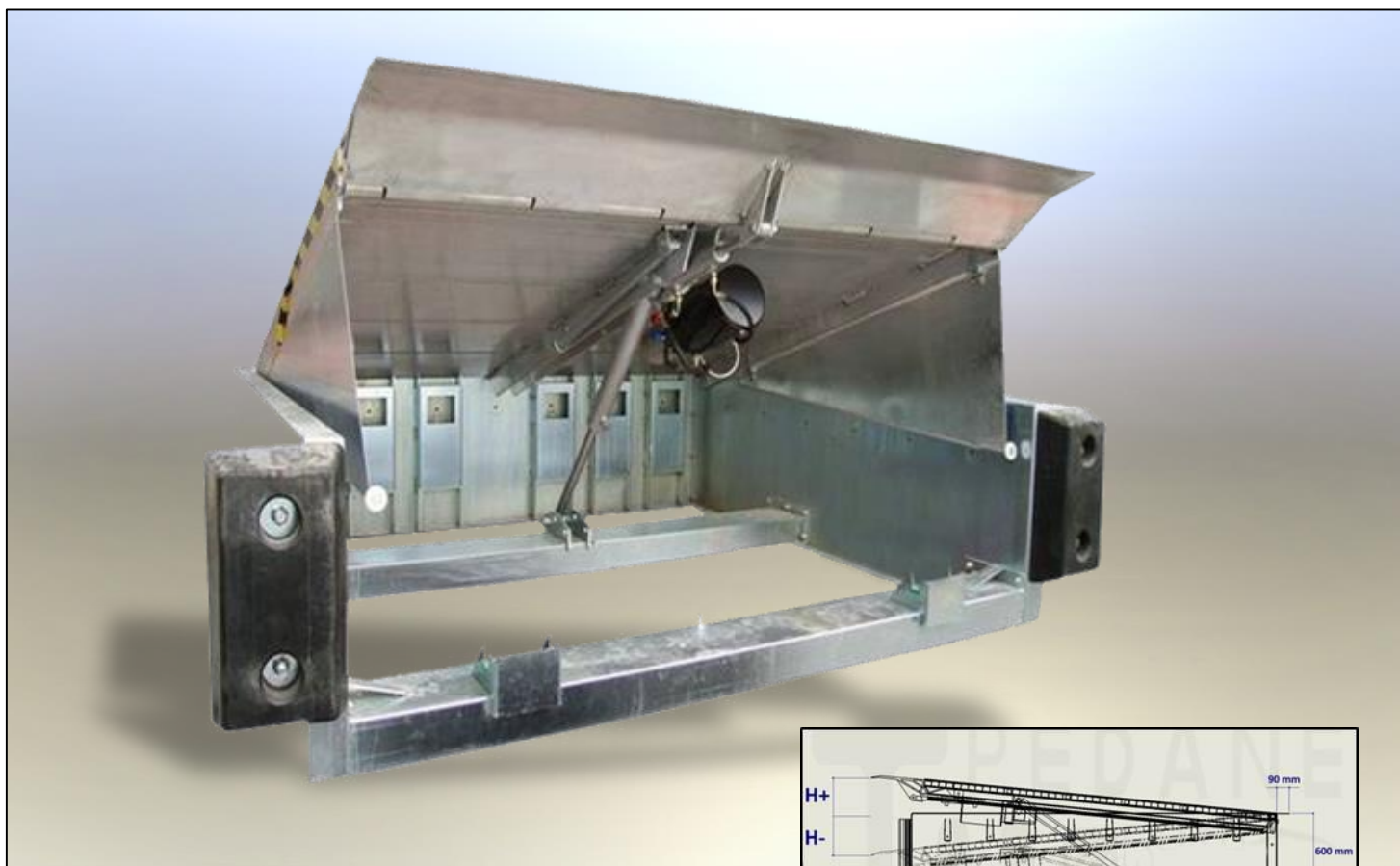
- Plate in aluminum extruded 6060 with 6000kg maximum capacity and anti-slip cross-ribbing surface treatment. Profile specifically engineered for concentrated loads
- Hinged aluminum lip on one 370mm extruded with antislip surface and hinge joint without added elements
- Double effect lip control oil piston.
- Single effect plate lifting oil piston with parachute valve
- hydraulic control unit activated by three-phase engine
- Power panel according to CEI 20/22/2 (IP 55) standards with 7mts long connection cable included
- Standard TAM2F gummy buffers (see TAM LINE chpt.) included
- Anticrushing/shearing hinged carters.



H+/-

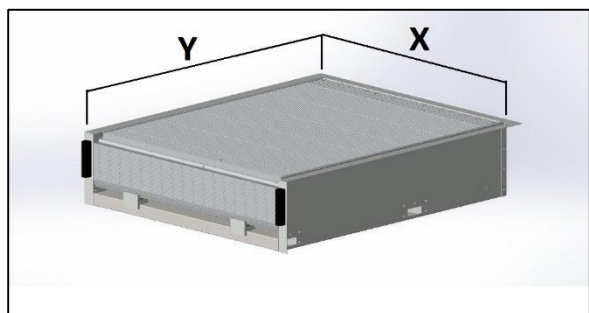
difference in height calculated according to UNI EN 1398 standard
for **12,5% gradient allowed for forklifts**

CODE	X mm	Y mm	H+/- mm	WEIGHT kg
NEW 150A-ALL	1650	1500+ LIP 370	240	200
NEW 200A-ALL	1650	2000+ LIP 370	300	250
NEW 250A-ALL	1650	2500+ LIP 370	360	330
NEW300A-ALL	1650	3000+ LIP 370	430	400
NEW 150B-ALL	2000	1500+ LIP 370	240	250
NEW 200B-ALL	2000	2000+ LIP 370	300	330
NEW 250B-ALL	2000	2500+ LIP 370	360	430
NEW 300B-ALL	2200	3000+ LIP 370	430	470
NEW 150C-ALL	2200	1500+ LIP 370	240	280
NEW 200C-ALL	2200	2000+ LIP 370	300	360
NEW 250C-ALL	2200	2500+ LIP 370	360	460
NEW 300C-ALL	2200	3000+ LIP 370	430	500



DETAILS

- Plate in aluminum extruded 6060 with 6000kg maximum capacity and anti-slip cross-ribbing surface treatment. Profile specifically engineered for concentrated loads
- Hinged aluminum lip on one 370mm extruded with antislip surface and hinge joint without added elements



- Double effect lip control oil piston.
- Galvanized steel boxframe for installation before pit construction
- Single effect plate lifting oil piston with parachute valve
- hydraulic control unit activated by three-phase engine
- Power panel according to CEI 20/22/2 (IP 55) standards with 7mts long connection cable included
- Standard TAM2F rubber buffers (see TAM LINE chpt.) included
- Anticrushing/shearing hinged carters.

CODE	X mm	Y mm	H+/- mm	WEIGHT kg
OIL150A-ALL	1650	1500+ LIP 370	240	200
OIL200A-ALL	1650	2000+ LIP 370	300	250
OIL250A-ALL	1650	2500+ LIP 370	360	330
OIL300A-ALL	1650	3000+ LIP 370	430	400
OIL150B-ALL	2000	1500+ LIP 370	240	250
OIL200B-ALL	2000	2000+ LIP 370	300	330
OIL250B-ALL	2000	2500+ LIP 370	360	430
OIL300B-ALL	2200	3000+ LIP 370	430	470
OIL150C-ALL	2200	1500+ LIP 370	240	280
OIL200C-ALL	2200	2000+ LIP 370	300	360
OIL250C-ALL	2200	2500+ LIP 370	360	460
OIL300C-ALL	2200	3000+ LIP 370	430	500

CAPACITY
6000 KG

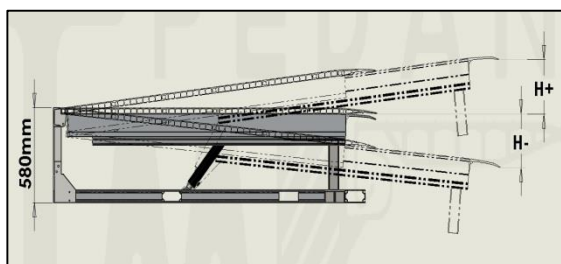
H+/-
difference in height
calculated according to
UNI EN 1398 standard
for **12,5% gradient allowed**
for forklifts



CAPACITY 6000 KG

DETAILS

-Plate in aluminum extruded 6060 with 6000kg maximum capacity and anti-slip cross-ribbing surface treatment. Profile specifically engineered for concentrated loads with sloping front profile for perfect passage to undersliding telescopic lip
-1000mm aluminum 6060 alloy telescopic lip with antislip surface, sliding under the main plate on side rails



- Double effect lip control oil piston.
- Single effect plate lifting oil piston with parachute valve
- hydraulic control unit activated by three-phase engine
- Power panel according to CEI 20/22/2 (IP 55) standards with 7mts long connection cable included
- Standard TAM2F rubber buffers (see TAM LINE chpt.) included
- Anticrushing/shearing hinged carters.

CODE	X mm	Y mm	H+/- mm	WEIGHT kg
TSL250B	2000	2500+ LIP 1000	440/425	650
TSL300B	2000	3000+ LIP 1000	500/425	690
TSL250C	2200	2500+ LIP 1000	440/425	700
TSL300C	2200	3000+ LIP 1000	500/425	750

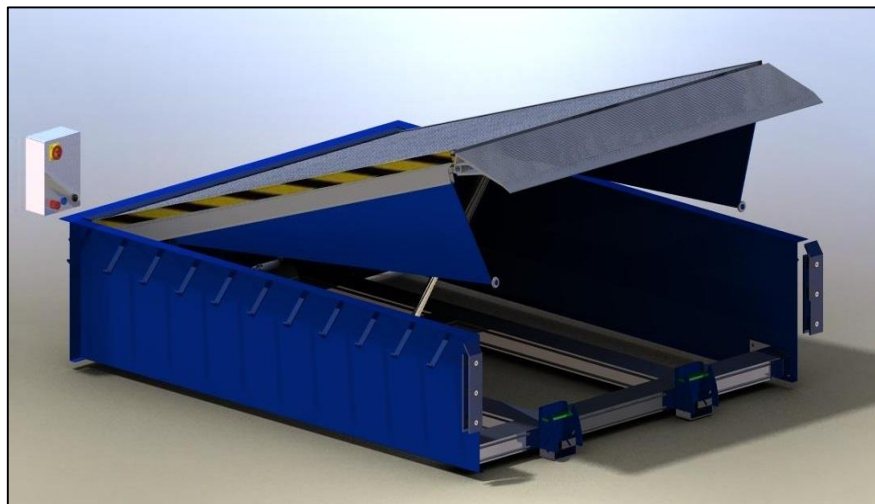
H+/- = difference in height calculated according to UNI EN 1398 standard for **12,5% gradient allowed for forklifts**

BF

optional **boxframe elements**
to be combined with
NEW OIL STANDARD
hydraulic dock levelers
for installation
before pit construction

DETAILS:

Couple of lateral press-formed galvanized steel sheets
Backside press-formed galvanized steel sheet
100x200x3mm + coating 1mm thick sheet



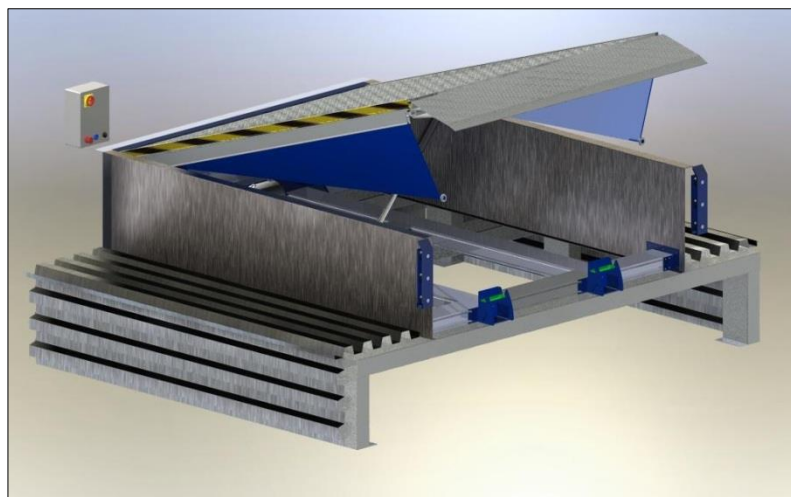
VS

tailboard housing

Combinable with

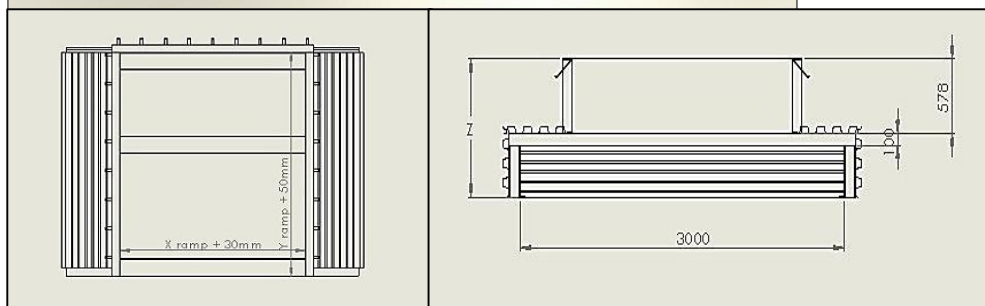
Cod. NEW/TSL + BF or OIL

hydraulic dock levelers
in order to load/offload trucks
with CANTILEVER TAIL LIFTS



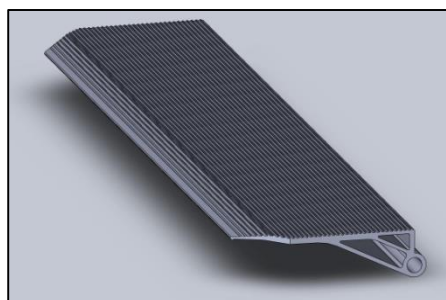
DETAILS:

Tubular galvanized steel structure with **3000mm**
internal width for tailboard
housing, length according to
NEW OIL chosen model
Corrugated steel sheet for
concrete casting

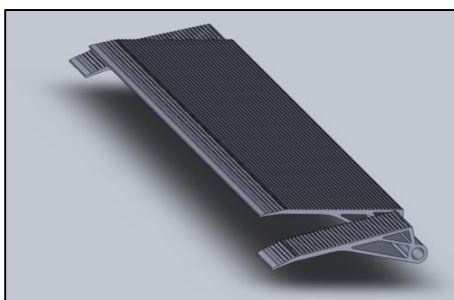


Quote 'z' has to be fixed altogether with customer according to established loading bay height

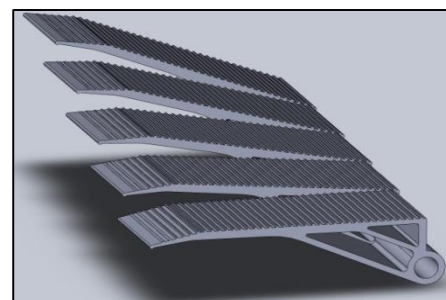
DIFFERENT CONNECTION LIP TYPES



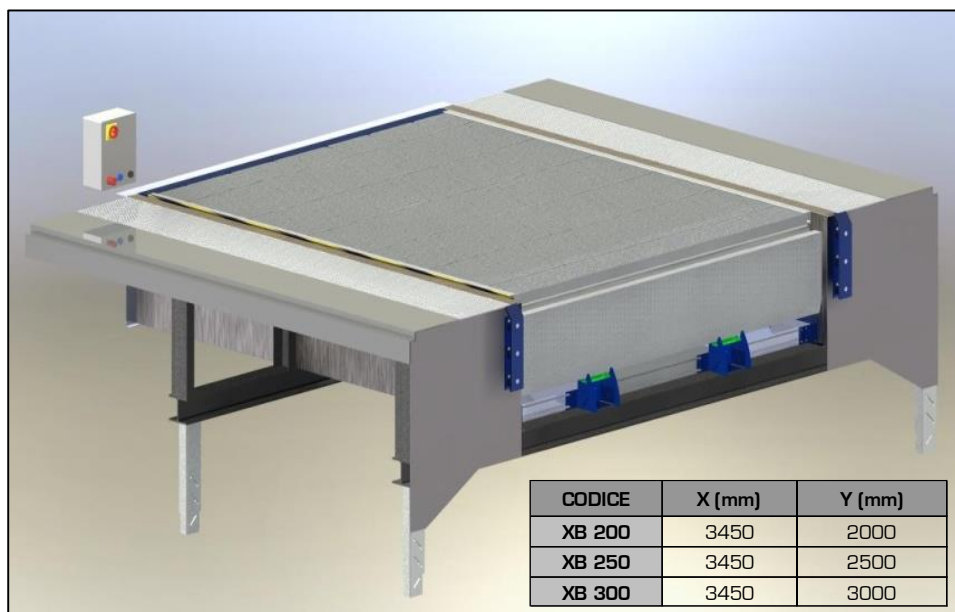
Surplus for 45° cut lip



Surplus for side flaps cutting

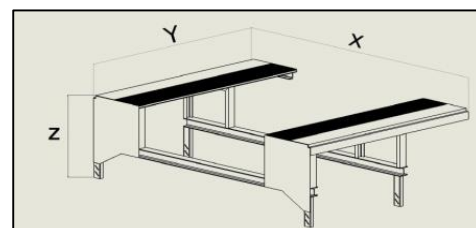


Surplus for complete segmentation



XB

To be welded at a steel L precast profile with aluminum high capacity internal side plates (light grey part) and galvanized steel low capacity external plates (darker grey part) (optional: STAINLESS STEEL)

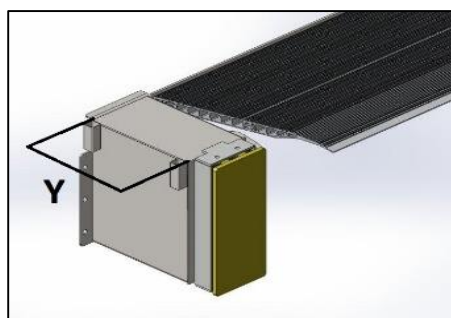
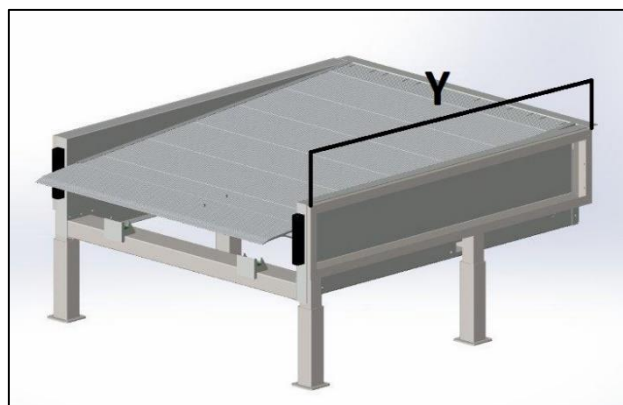


Z factor is to be established according to the bay height

EXT

Simple distancing galvanized steel structure without sidewalk surface. Ground feet not present in MR480-680 versions versioni per MR480-680. Dock bumpers not included (see TAM)

CODE	RAMP	X (ramp included) mm	Y mm
EXT.48	MR480	2440	480
EXT.68	MR680	2440	680
EXT.108	MR1080	2440	1080
EXT.200	OIL200	2440	2000
EXT.250	OIL/TSL250	2440	2500
EXT.300	OIL/TSL300	2440	3000



P432

Pair of large distancing profiles (W=240mm) for 480mm long miniramps and 800mm long manual ramps in painted press-formed steel plate, bumpers not included (check TAM chapter)

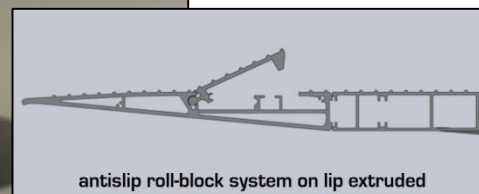
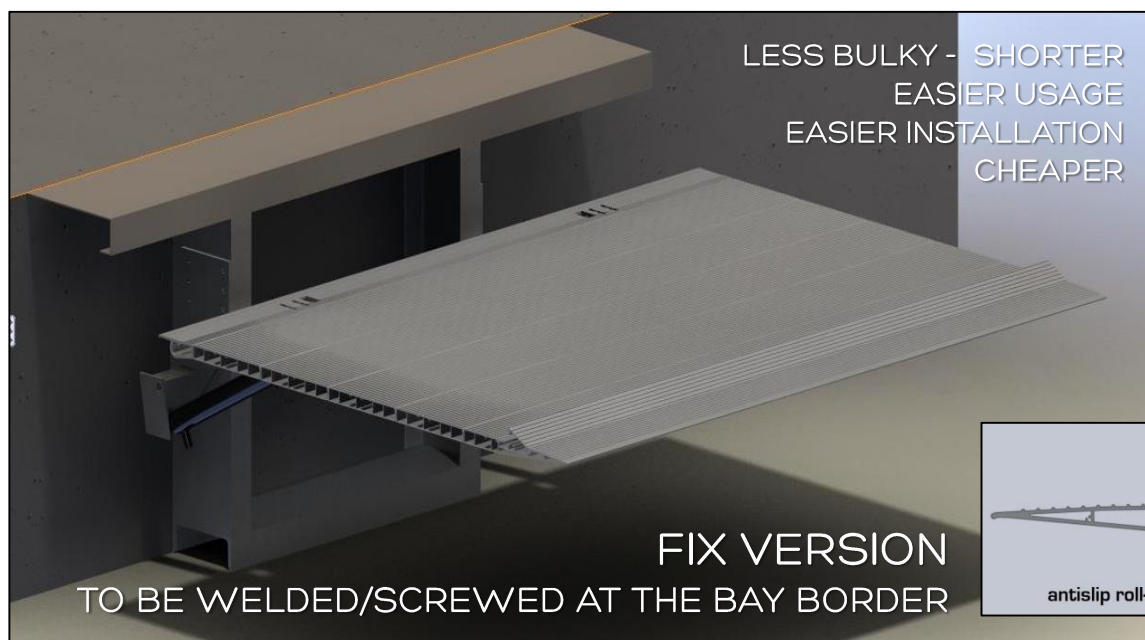
DIFFERENT POWER PANELS

QCSEZ
Combo panel
for double
ramp/door
control



QCMEC
Mecanical
panel



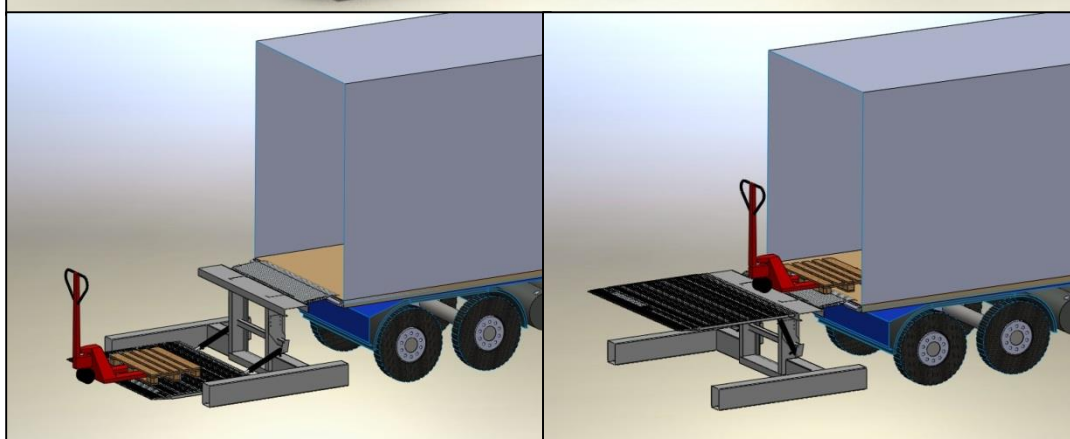
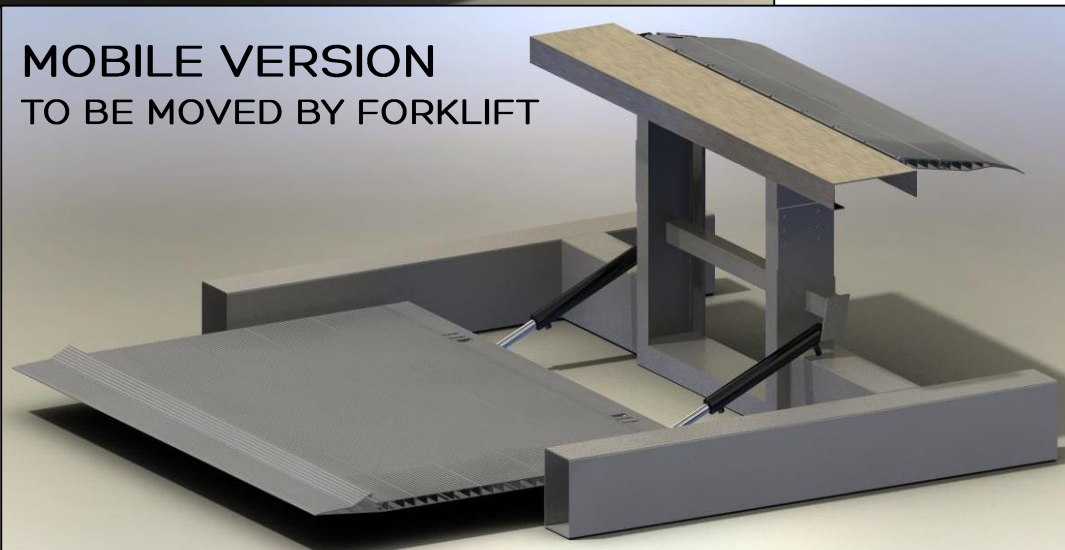


DETAILS:

Hydraulic lifting platform for
loading/offloading in high
gradient situations
(container/groundfloor)

- Aluminum 6060 alloy
extruded. Particular lip
shape with antislip roll-stop
- Supporting profile in
galvanized steel
(OPTIONAL: connection
profile between backlip and
plate stainless steel)
- Couple of plate lifting oil
pistons
- Hydraulic control unit
connected to rubber foot
control switches directly on
the plate
- Aluminum connection lip
model CR40B 2000x400
with 4000kg capacity

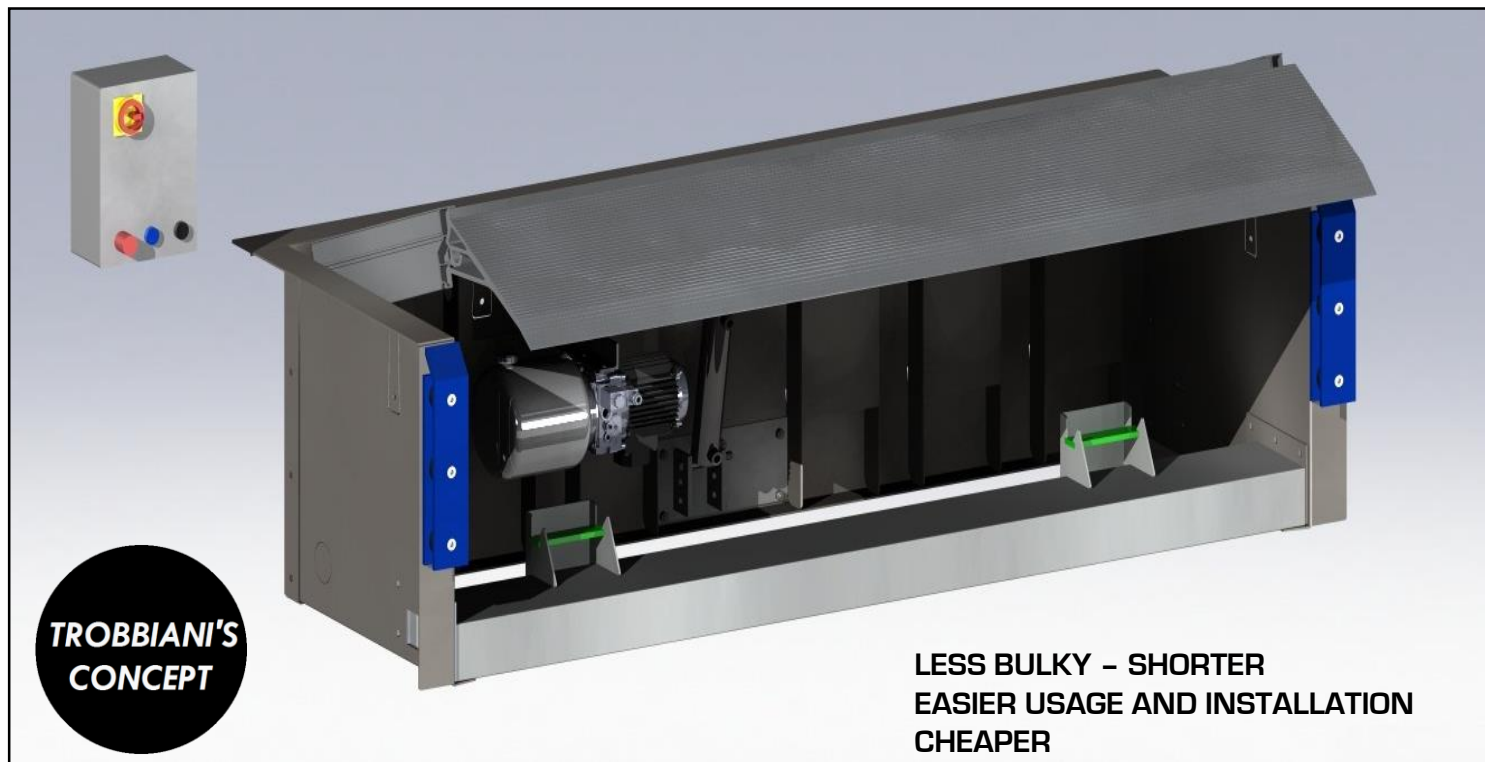
MOBILE VERSION TO BE MOVED BY FORKLIFT



AVAILABLE FOR:

CODE	X (mm)	Y (mm)	DRIVE (mm)	WEIGHT (kg)
QN	2400	1800	0-1000/1400	530
QNM	2400	1800	0-1000/1400	730
PPTQN	Lateral anti-falling handrails			

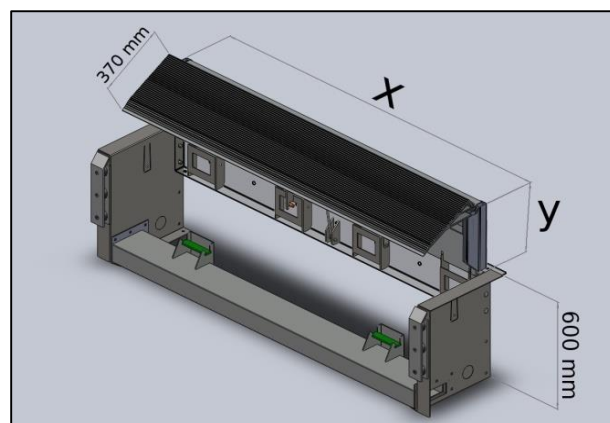
1000KG
2000KG
3000KG



DETAILS:

- Surrounding galvanized steel boxframe (optional for INOX)
- 6000 kg capacity aluminum plate with anti-slip cross-ribbing
- Hinged lip in one piece 370 mm long with extruded joint between lip and plate.
- TAM3F standard rubber bumpers (see TAM LINE)
- Perfectly fitting with H.A.A.C.P. rules
- CE certificated model
- Double effect lip control oil piston
- Single effect plate lifting oil piston with parachute valve
- Hydraulic control unit activated by three-phase engine
- Power panel according to CEI 20/22/2 (IP55) with 7 mt long connection cable

MAX CAPACITY 6000 kg

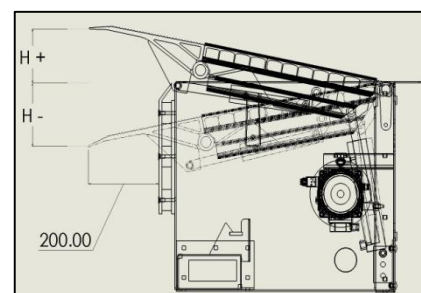


Optional: OVERBAY INSTALLATION STRUCTURE (see EXT)
the structure is to be welded to a U profile already put into the loading bay border during concrete cast



CODE	X	Y	H+ / H-	WEIGHT
MR480B-OIL	2000	480+LIP	110/110	170
MR680B-OIL	2000	680+LIP	140/140	220
MR1080B-OIL	2000	1080+LIP	190/190	270

H+/- difference in height calculated according to
UNI EN 1398 standard for **12,5% gradient allowed for forklifts**

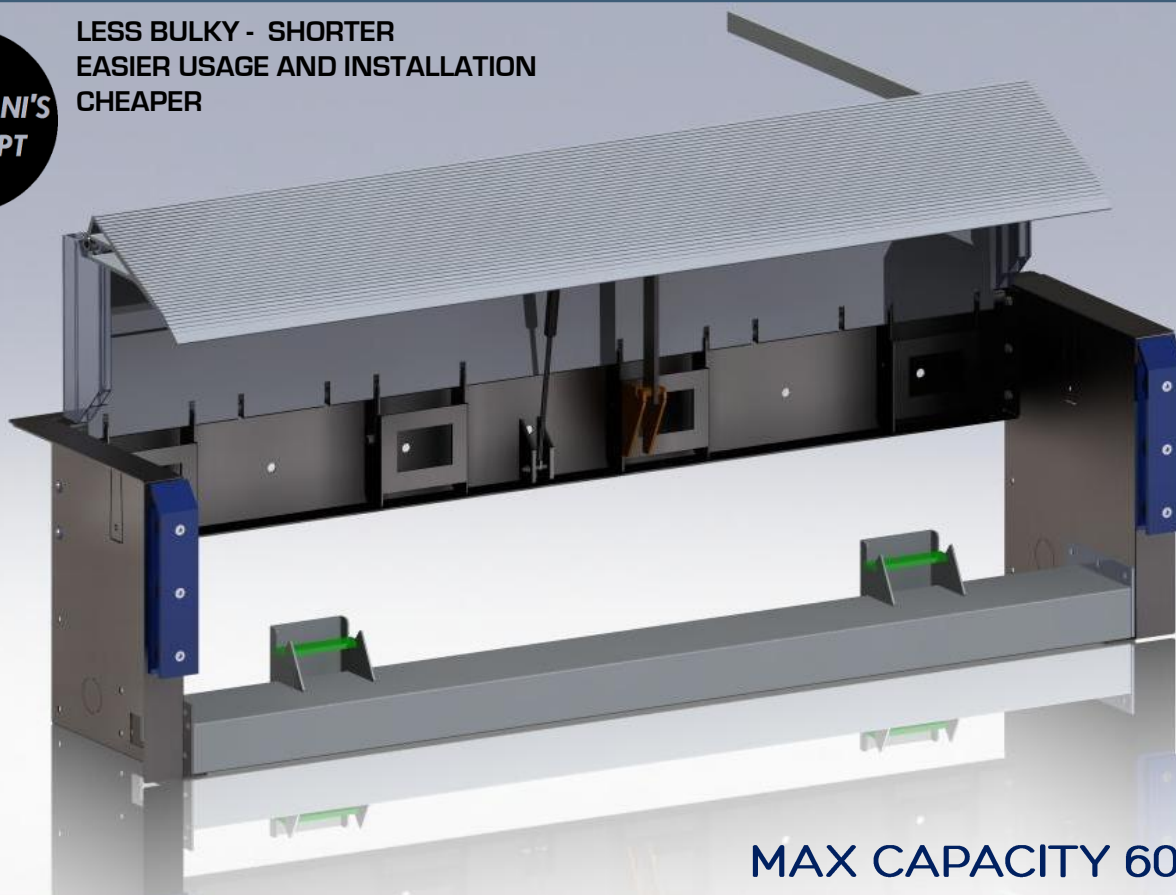


MANUAL RAMPS



**TROBBIANI'S
CONCEPT**

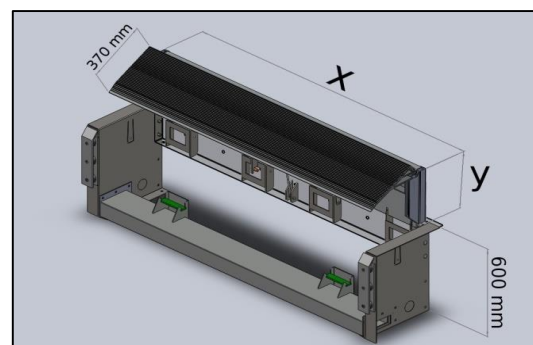
**LESS BULKY - SHORTER
EASIER USAGE AND INSTALLATION
CHEAPER**



MAX CAPACITY 6000 KG

DETAILS:

- surrounding profile with galvanised steel sides, back and lip-base (optional for INOX)
- 6000 kg capacity aluminum plate with anti-slip cross-ribbing
- Hinged lip in one piece 370 mm long with extruded joint between lip and plate.
- TAM3F standard rubber bumpers (see TAM LINE)
- Perfectly fitting with H.A.A.C.P. rules
- CE certificated model
- Lifting and positioning assistance gas spring..
- POSITIONING THROUGH RIGID STEEL REMOVABLE SIDE-HANDLE



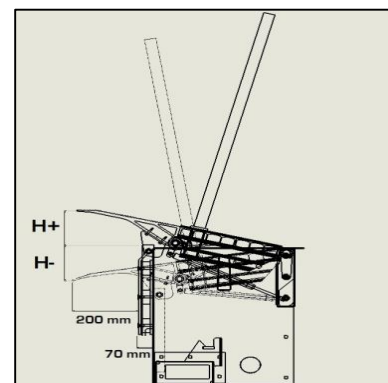
Optional: OVERBAY INSTALLATION STRUCTURE (see EXT)

the structure is to be welded to a U profile already put into the loading bay border during concrete cast



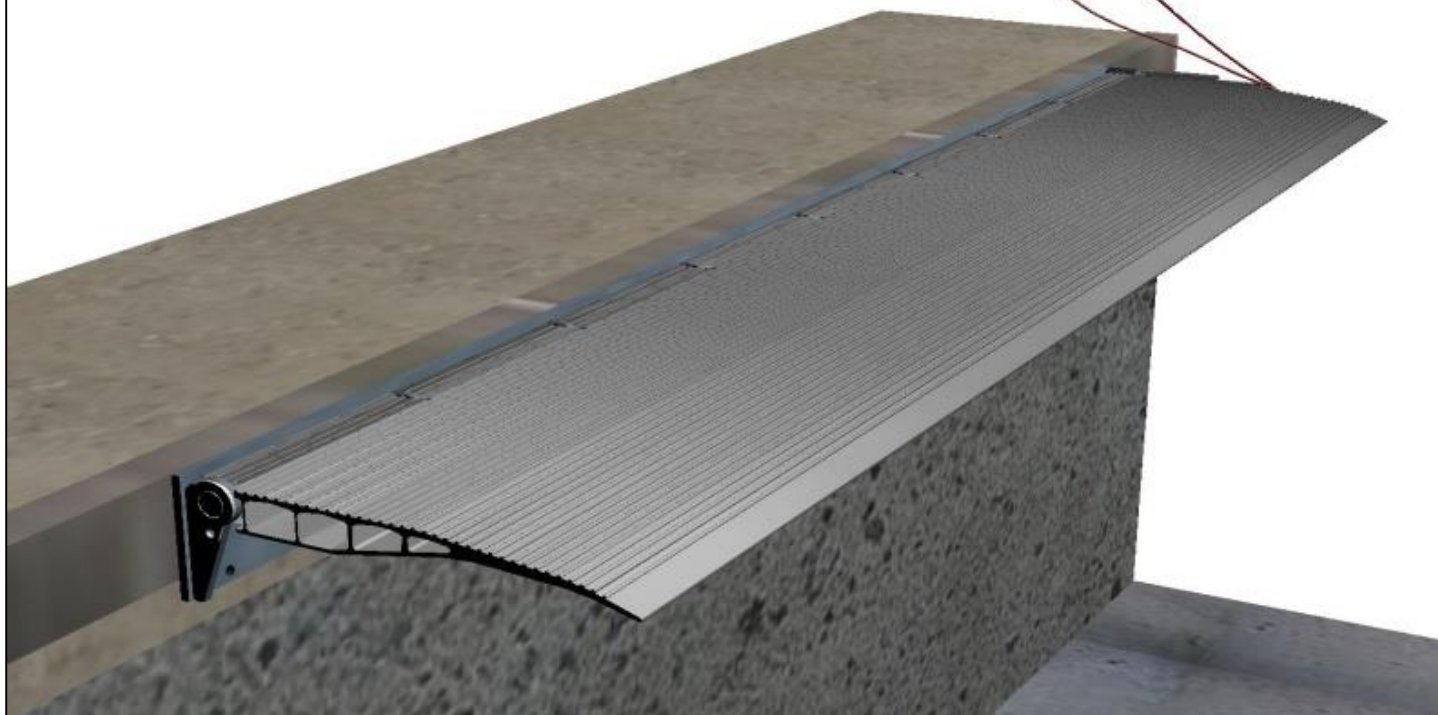
H+/- difference in height calculated according to
UNI EN 1398 standard for **12,5% gradient allowed for forklifts**

CODE	X	Y	H+ / H-	WEIGHT
MR480B-MAN	2000	480+LIP	110/110	170
MR680B-MAN	2000	680+LIP	140/140	220
MR1080B-MAN *	2000	1080+LIP	190/190	270



* **MR1080B-MAN** model has a **SEMI-AUTOMATIC** mechanism of work: **plate is lifted through rigid side-handle whilst lip is lifted manually.**
Instead, **MR480** and **MR680** models are fully automatic and can be positioned only through the rigid side-handle.

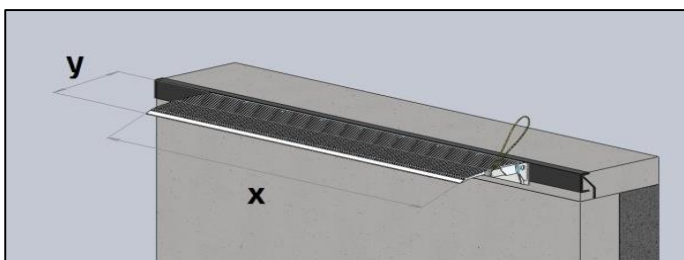
Fix manual ramp, perfect for low gradients ($\pm 0/100\text{mm}$)



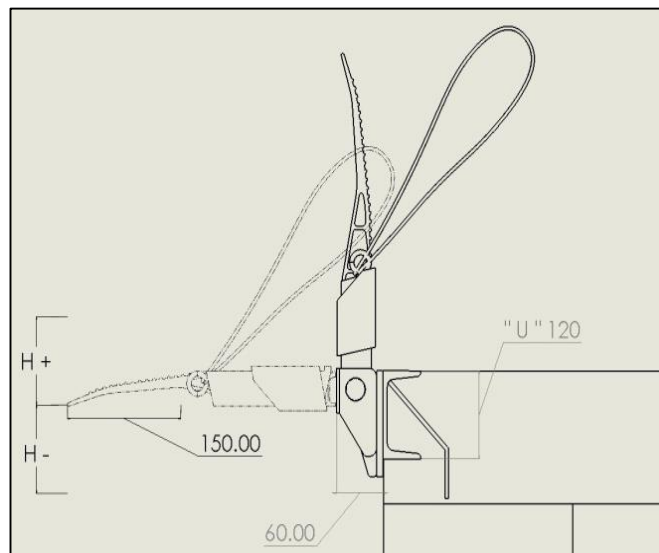
DETAILS:

Aluminum 6060 alloy extruded plate with surface antislip cross-ribbing surface treatment
Rotation on hinge joint with weldable back-plate to be fixed at bay border.
Positioning through flexible rope
Safety anti-falling mechanical block device

OPTIONAL: aluminum L-shape plate for no-welding installation, only through screws.



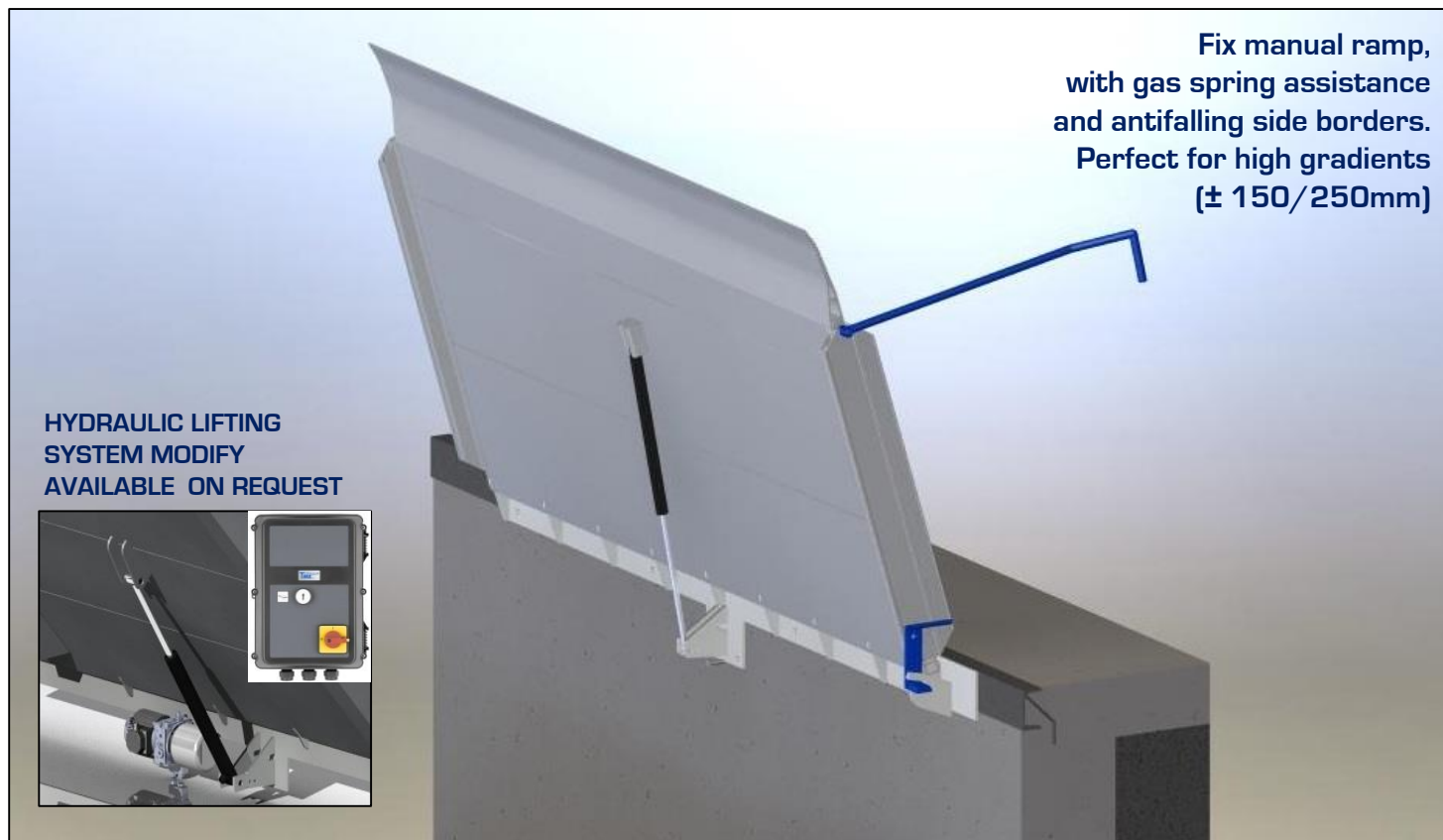
CAPACITY 4000 KG



H+/-
difference in height
calculated according to
UNI EN 1398 standard for
**12,5% gradient allowed
for forklifts**

*According to UNI EN 1398 standard limits
1100mm wide ramps are
engineered to be used
ONLY in couple to load on
big trucks.

CODE	X	Y	WEIGHT	H+ / H-
	(mm)	(mm)	(Kg)	
CR40	1100*	400	15	50/50
CR60	1100*	600	22	75/75
CR80	1100*	800	30	100/100
CR40A	1650	400	20	50/50
CR60A	1650	600	25	75/75
CR80A	1650	800	35	100/100
CR40B	2000	400	25	50/50
CR60B	2000	600	30	75/75



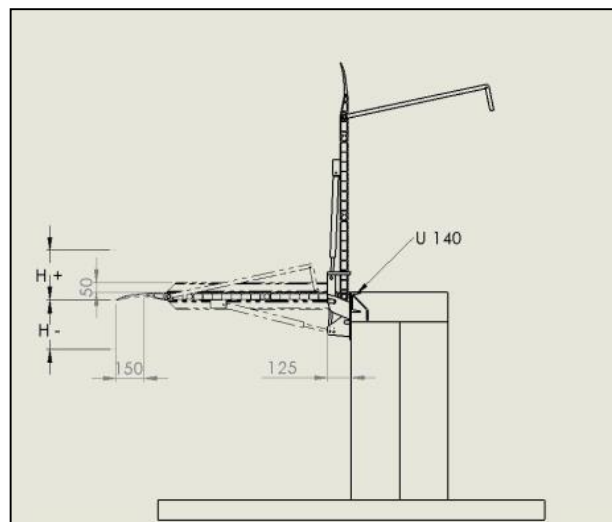
MAX CAPACITY 4000-5000 KG

DETAILS:

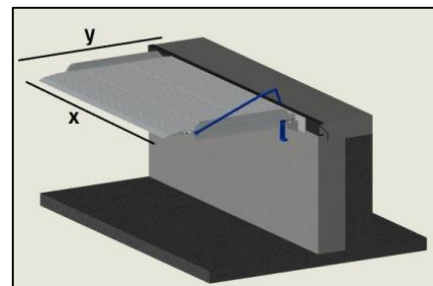
- Aluminum plate in 6060 extruded with 5000kg maximum capacity (4000kgs for CR-GAS80B)
- Surface treatment with anti-slip cross-ribbing
- Positioning system through rolling on hinge joint with weldable backplate
- Control device: rigid steel handle (**blue coloured**)
- Automatic safety antifalling device (**blue coloured**)
- Gas spring for positioning assistance

OPTIONAL:

- L shape aluminum plate for installation without welding, through screws;
- Side antifalling handrails /holders welded on side borders.

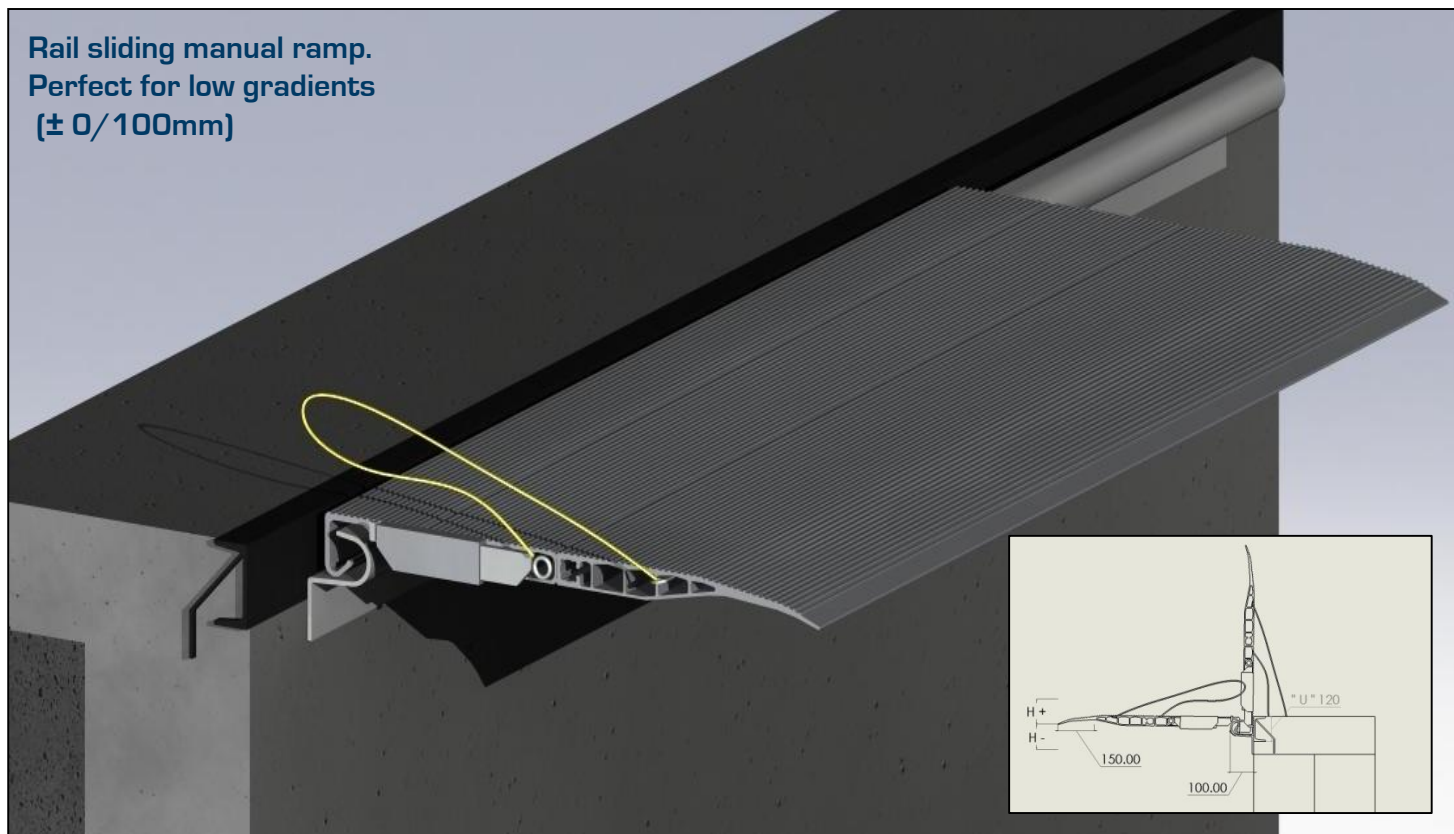


CODE	X (mm)	Y (mm)	WEIGHT (Kg)	H+ / H- (mm)
CR-GAS80B	2000	800	60	100/100
CR-GAS120A	1650	1200	70	150/150
CR-GAS160A	1650	1600	90	200/200
CR-GAS200A	1650	2000	110	250/250
CR-GAS120B	2000	1200	90	150/150
CR-GAS160B	2000	1600	105	200/200
CR-GAS200B	2000	2000	125	250/250



H+/- difference in height calculated according to UNI EN 1398 standard for **12,5% gradient allowed for forklifts**

**Rail sliding manual ramp.
Perfect for low gradients
($\pm 0/100\text{mm}$)**



Engineered with **wide gap between back connection and rail** in order to provide maximum adaptability to irregular surfaces and best flexion/torsion.

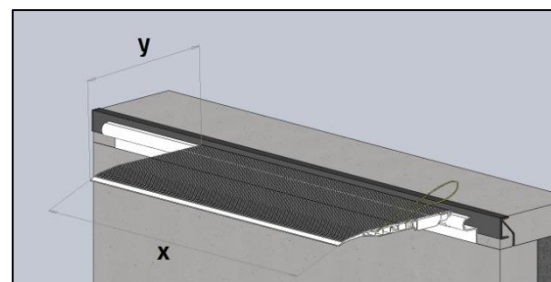
DETAILS::

Aluminum 6060 alloy extruded connection lip

Mechanical anchorage system to bay border through fitting in a sliding rail (see "SLIDING RAMPS INSTALLATION")

Positioning flexible side rope

Antifalling block device in vertical position (according to UNI EN 1398)



H+/- difference in height calculated according to UNI EN 1398 standard for **12,5% gradient** allowed for forklifts

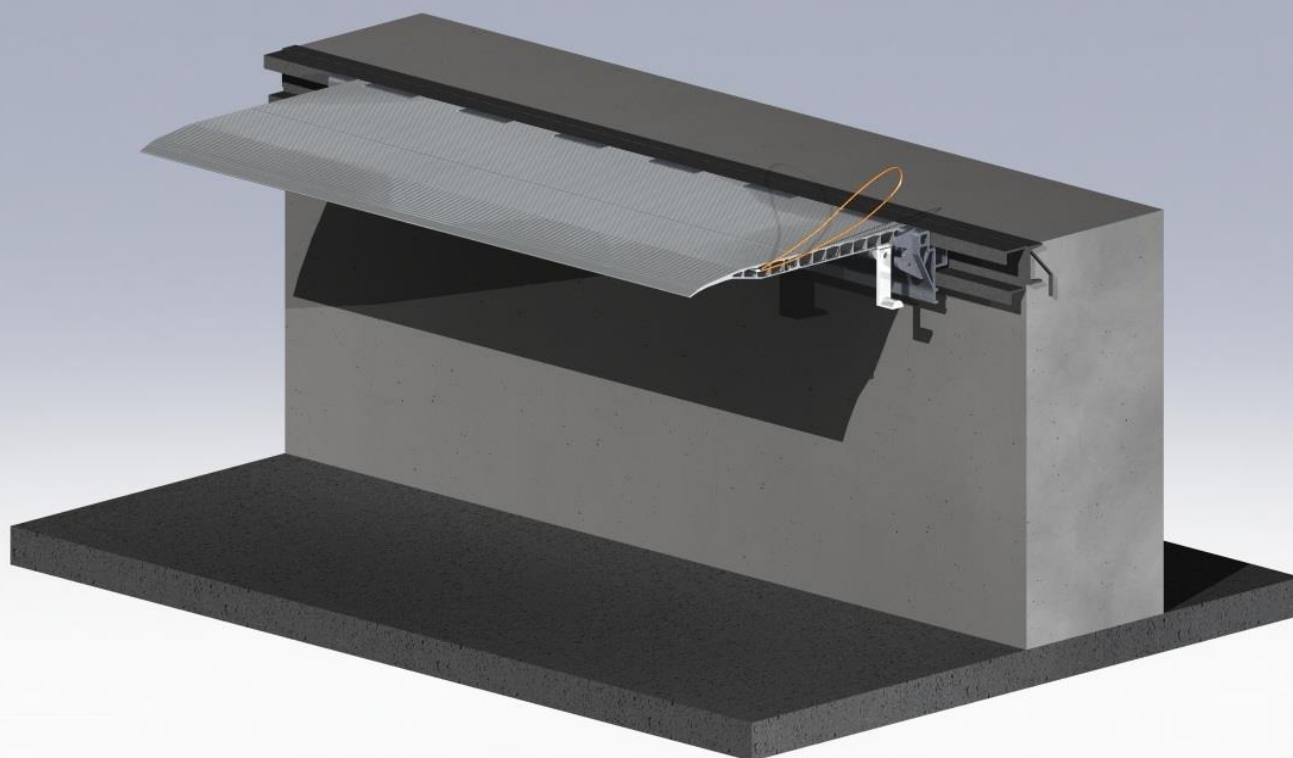
CODE	X mm	Y mm	WEIGHT kg	H+ / H- mm
TR40	1100*	400	25	50/50
TR65	1100*	650	32	80/80
TR90	1100*	900	40	100/100
TR40A	1650	400	35	50/50
TR65A	1650	650	42	80/80
TR90A	1650	900	50	100/100
TRR55	1100*	550	20	70/70
TRR75	1100*	750	26	100/100
TRR95	1100*	950	32	125/125
TRR55A	1650	550	30	70/70
TRR75A	1650	750	34	100/100
TRR95A	1650	950	38	125/125
TRR55B	2000	550	36	70/70
TRR75B	2000	750	45	100/100

**CAPACITY
6000 KG**

**CAPACITY
4000 KG**

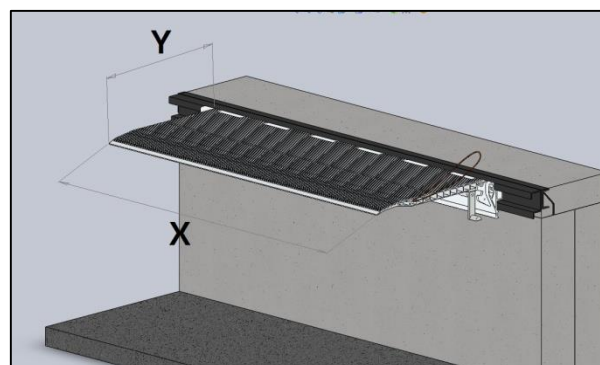
*ramps with 1100mm width are engineered to work ONLY in pair, according to limits written in the UNI EN 1398 standards

Rail sliding manual ramp
perfect for long bays
and loading with transpallets/little wheels vehicles



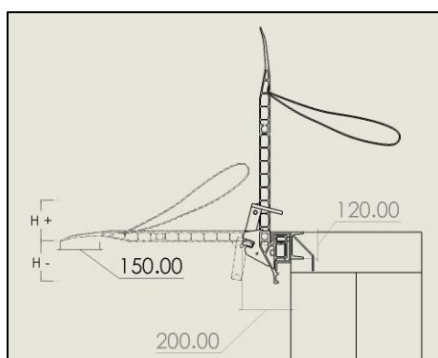
DETAILS:

Aluminum 6060 alloy extruded plate with 4000 kg capacity and antislip cross-ribbing surface treatment
Faster sliding thanks to ball-bearing system on rails (see "SLIDING RAMPS INSTALLATION")
Lateral positioning flexible rope
Anti-falling block device in vertical position

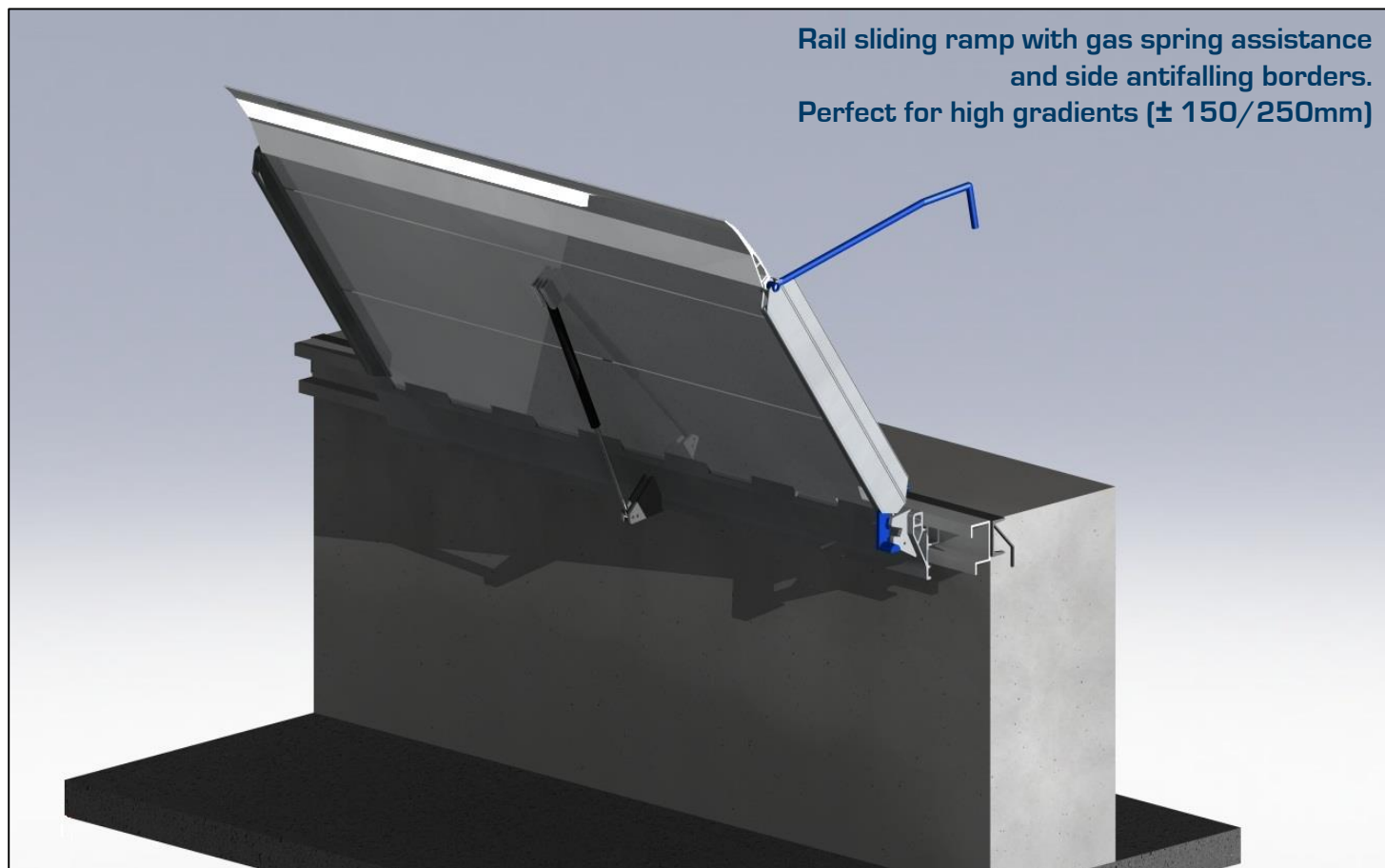


CAPACITY 4000 KG

H+/- difference in height calculated according to
UNI EN 1398 standard for **12,5% gradient allowed for forklifts**

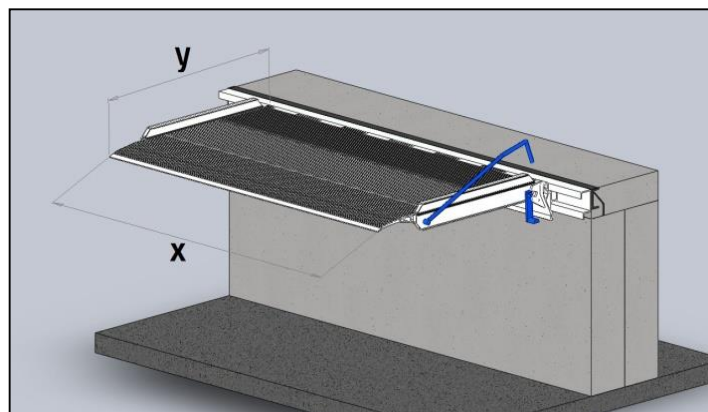


CODE	X	Y	WEIGHT (Kg)	H+/-
	(mm)	(mm)		(mm)
ES 40A	1650	400	42	50/50
ES 60A	1650	600	55	75/75
ES 80A	1650	800	68	100/100
ES 40B	2000	400	58	50/50
ES 60B	2000	600	65	200/180



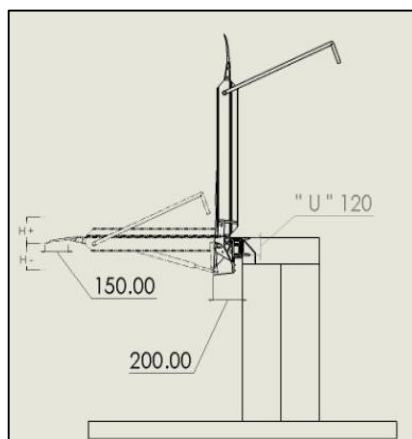
DETAILS:

- Aluminum 6060 alloy extruded plate with 5000kg capacity
- Gas spring assistance for 90% weight in positioning and bringing back to relax position
- Sliding through ball-bearing system on rails (see "SLIDING RAMPS INSTALLATION")
- Rigid steel handle for positioning
- Mechanical safety block device in vertical position



CAPACITY 5000 KG

H+/- difference in height calculated according to UNI EN 1398 standard for 12,5% gradient allowed for forklifts



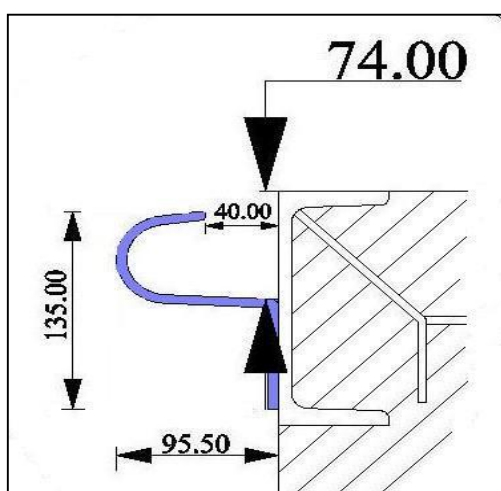
CODE	X	Y	WEIGHT	H+/-
	(mm)	(mm)	(Kg)	(mm)
GAS120A	1650	1200	70	150/150
GAS160A	1650	1600	90	200/200
GAS200A	1650	2000	110	250/250
GAS120B	2000	1200	90	150/150
GAS160B	2000	1600	105	200/200
GAS200B	2000	2000	125	250/250

Sliding ramps have a really easy and rapid installation procedure. They are delivered with lateral sliding rails, available in 2 main versions:

- traditional iron rail to be welded at a precast 120mm clamped angle bar,
- Innovative aluminum rail, perfect for loading bays without precast attachments, as it has a L-shape back-profile to be easily fixed with screws (supplied by us) directly to the concrete.

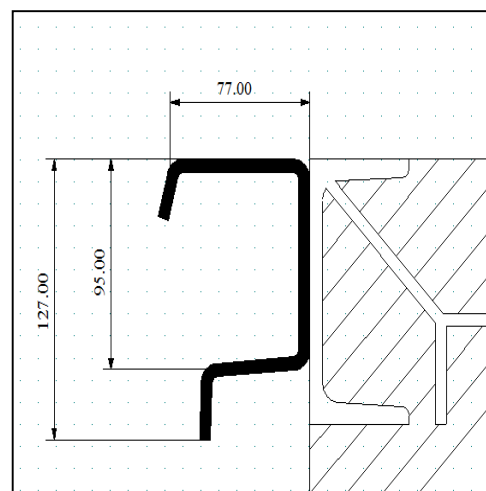
Iron rails are available in 3000mm bars whilst aluminum ones can be supplied in 2400mm and 3000mm bars

TR.GF3000

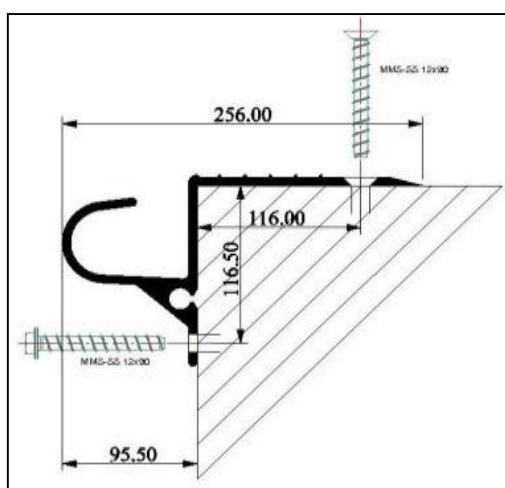


IRON
GUIDE
RAILS

GAS.GF3000

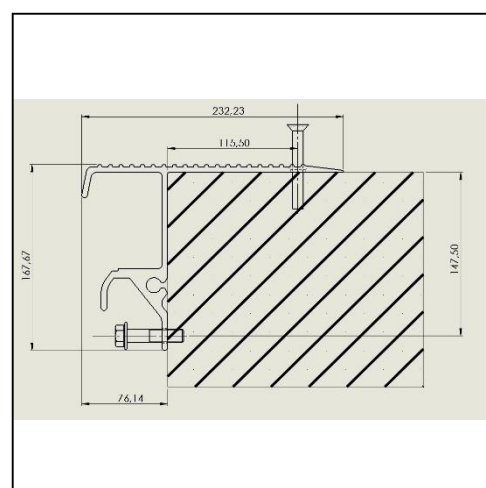


TR.GA2400
TR.GA3000



ALUMINUM
GUIDE
RAILS

GAS.GA2400
GAS.GA3000



**FOR TR/TRR
RAMPS**

**FOR GAS/ES
RAMPS**

MOBILE RAMPS

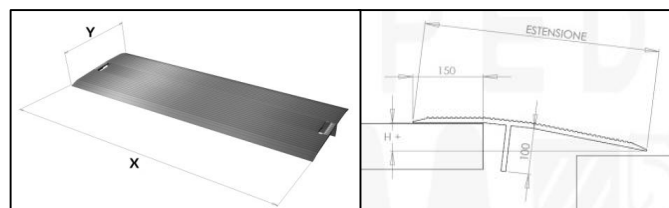




CAPACITY 1000KG

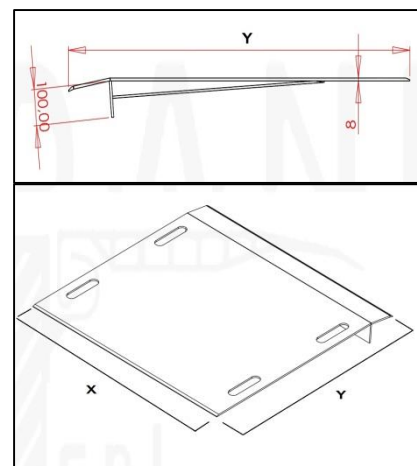
Aluminum light 8mm dock plate
with 150mm front lip bending.
Surface with non-slip diamond-shaped embossment
Smoothed connection lips.
Vertical 100mm high block preventing downfall
Sidecut handles for easy moving
(n°2 for PLQ50 - n°4 for PLQ100/125/150)
Longitudinal reinforcement backaxles (PLQ100/125/150)

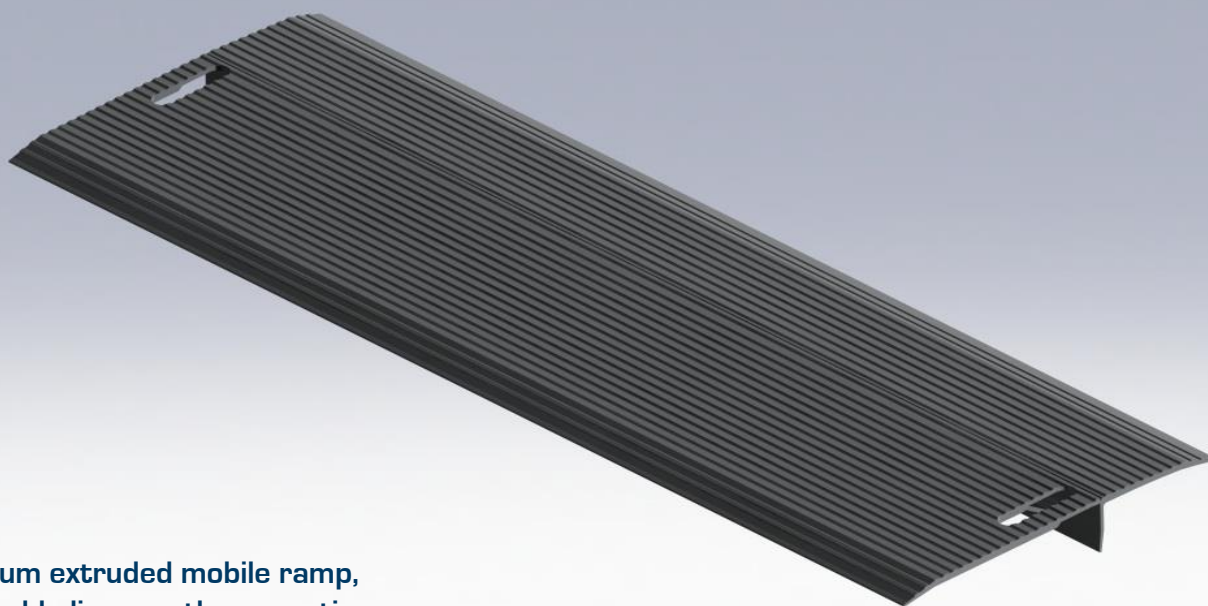
PLQ50



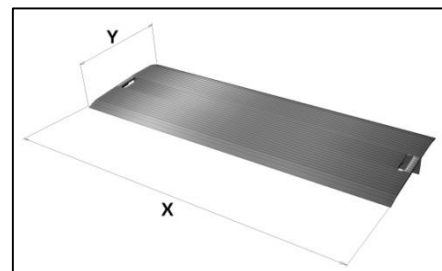
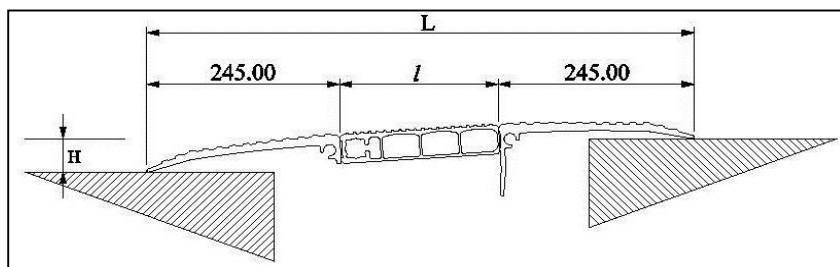
CODE	X	Y	H- / H+	WEIGHT
	(mm)	(mm)	(mm)	(Kg)
PLQ50.125	1250	500	20/60	13
PLQ50.150	1500	500	20/60	16
PLQ50.200	2000	500	20/60	21
PLQ100.125	1250	1000	30/125	26
PLQ100.150	1500	1000	30/125	31
PLQ100.200	2000	1000	30/125	42
PLQ125.125	1250	1250	30/155	33
PLQ150.125	1250	1500	30/190	39

PLQ100-125-150





Aluminum extruded mobile ramp,
with double lip smooth connection.
Light weight and easy positioning
through 2 lateral handles



CODE	X	Y	H+/-	WEIGHT
	(mm)	(mm)	(mm)	(Kg)
DPC 50	1100	490	70/70	19
DPC 70	1100	690	90/90	26
DPC 90	1100	890	110/110	33
DPC 130	1100	1290	165/165	47
DPC 50A	1650	490	70/70	28
DPC 70A	1650	690	90/90	38
DPC 90A	1650	890	110/110	49
DPC 130A	1650	1290	165/165	70
DPC 50B	2000	490	70/70	34
DPC 70B	2000	690	90/90	47
DPC 90B	2000	890	110/110	59
DPC 130B	2000	1290	165/165	84

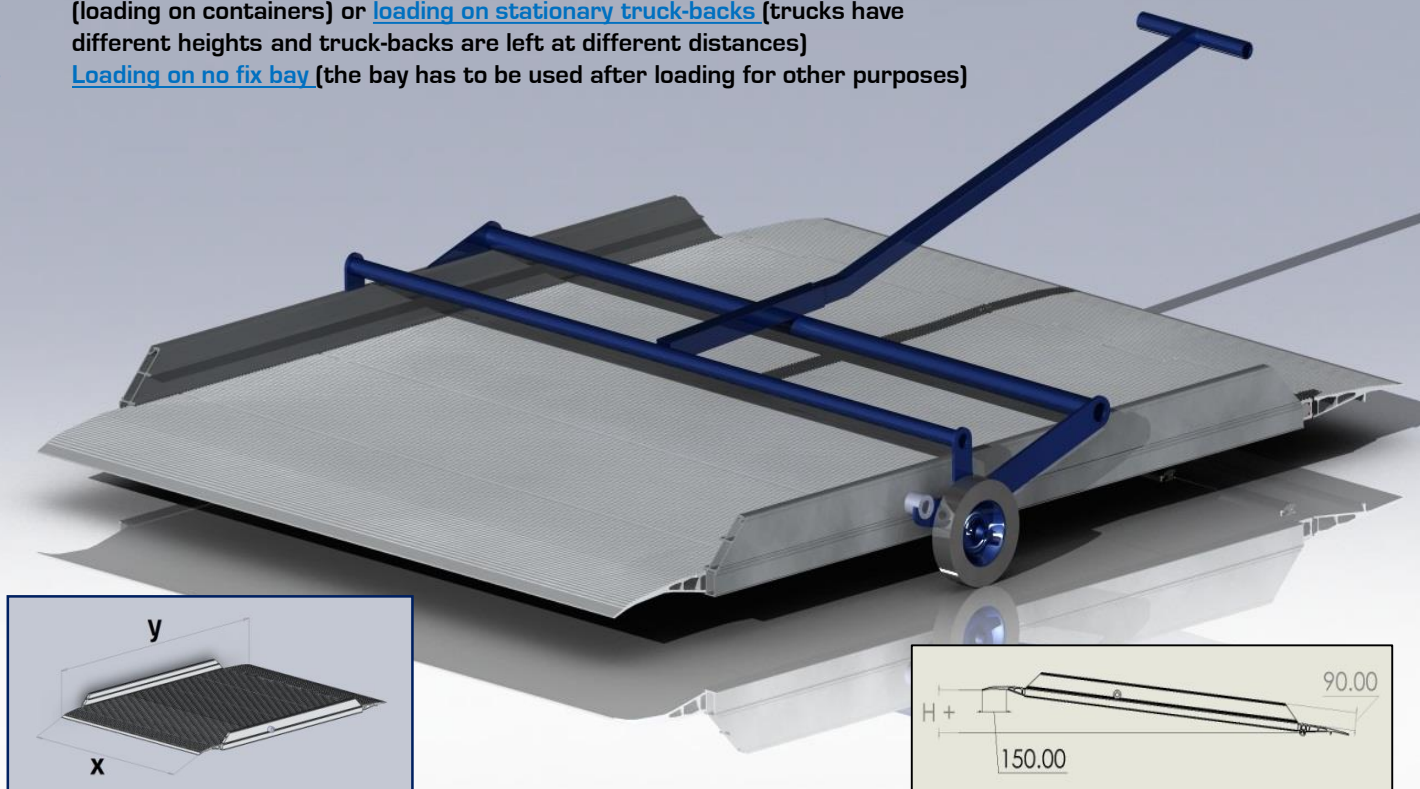
CAPACITY 6000 KG

PERFECT FOR:
- Occasional loads/unloads
- Low gradient
- Rapid loading in points
not specifically reserved
to these procedures

H+/- difference in height calculated according to UNI EN 1398
standard for 12,5% gradient allowed for forklifts

PERFECT FOR

- Loading on variable height vehicles and sometimes very high gradients
(loading on containers) or loading on stationary truck-backs (trucks have different heights and truck-backs are left at different distances)
- Loading on no fix bay (the bay has to be used after loading for other purposes)

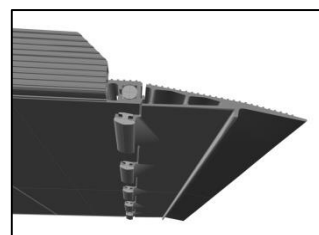


DETAILS:

- Aluminum 6060 alloy extruded profile with 6000kg capacity
- Hinged Back-lip for perfect fitting in loading surface
- gummy antislip seal to groundfloor mounted on backflip

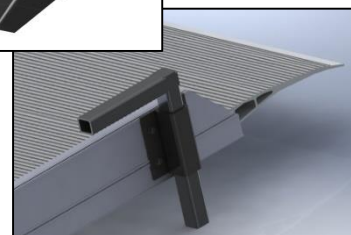
CAPACITY 6000 KG

CODE	X	Y	WEIGHT	H+
	(mm)	(mm)	(Kg)	(mm)
PLUS150A	1650	1200*	100	200
PLUS190A	1650	1600*	120	250
PLUS230A	1650	2000*	140	300
PLUS150B	2000	1200*	125	200
PLUS190B	2000	1600*	150	250
PLUS230B	2000	2000*	180	300



**RUBBER
ANTISLIP
SEALS
INCLUDED**

**LATERAL
SAFETY
BLOCKS
OPTIONAL**



* Y factor DOES NOT include 300 mm hinged connection lip - **H+/-** difference in height calculated according to UNI EN 1398 standard for **12,5% max gradient allowed for loading ramps**

FOR FORKLIFT POSITIONING

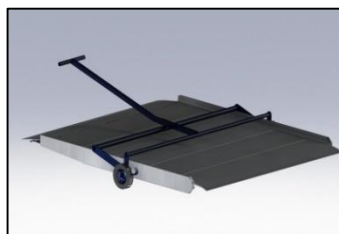
CAR-MU1650
CAR-MU2000



TROLLEYS

FOR MANUAL POSITIONING

CAR-MA1650
CAR-MA2000





CAPACITY 4000KG

Components:

- **TRAPEZOIDAL CENTRAL STRUCTURE** IN ALUMINUM 6060 ALLOY EXTRUDED WITH HOLES TO MOVE BY FORKLIFT OR TRANSPALLET
- **«TR» MODEL CONNECTION RAMPS TO THE LOADING BAY** IN ALUMINUM 6060 ALLOY EXTRUDED WITH FLAT LIP TO AVOID VEHICLES BUMPING , STANDING IN VERTICAL RELAX POSITION ON THE RAIL , TO BE PUT DOWN TO THE BAY THROUGH ROPES ON THE SIDES.
- **«TRR» MODEL CONNECTION RAMPS TO THE TRUCK** IN ALUMINUM 6060 ALLOY EXTRUDED WITH BENT LIP TO CONNECT TO TRUCK FLOOR, STANDING IN RELAX POSITION ON THE RAIL, TO BE PUT DOWN TO THE BAY THROUGH ROPES ON THE SIDES
- **SIDE ANTIFALLING HANDRAILS** IN GALVANIZED/PAINTED STEEL H=1100MM MOUNTED ON SUPPORTS WELDED TO THE LOADING SURFACE

COMPONENT	Width (mm)	Length (mm)
TRAPEZOIDAL CENTRAL STRUCTURE	2200*	2000-3000-4000
LOADING BAY CONNECTION RAMPS (2X)	1100	1000
TRUCK CONNECTION RAMPS (2X)	1100	950

* Dimension includes also the space occupied by handrail feet,
excluding them right WORK WIDTH of the structure is 2100mm



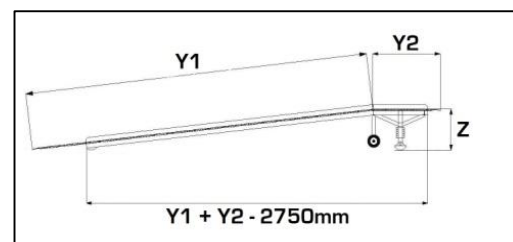
**Yard ramp,
PERFECT TO
load from groundfloor
to trucks/containers
with forklifts**



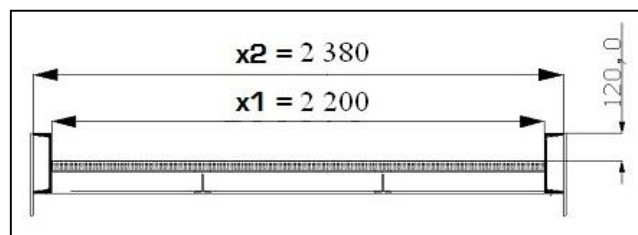
CAPACITY 8000 KG

DETAILS:

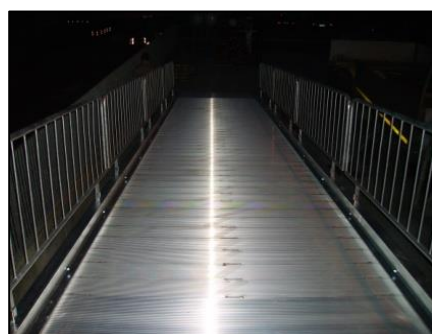
- Profile with "IPE200/240" galvanized steel axles for 8000kg capacity
- Connection bars with "IPE160/180 galvanized steel carrying axles.
- Metal junctions and mechanical accessories firmly linked through bolts and screws.
- Aluminum 6060 alloy extruded antislip plate with side 100mm safety border.
- Manually adjustable feet for different heights. [-/+ 300mm]
- Aluminum 6060 alloy extruded CR40B connection lip for perfect fitting on truck-back.
- Rubber wheels for ramp moving through forklift at the groundfloor side.
- Galvanizing treatment to every steel part of the structure.



CODE	X1	X2	Y1	Y2	Z
	[mm]	[mm]	[mm]	[mm]	[mm]
KING 100	2200	2380	10000	2400	-900/+1300
KING 120	2200	2380	12000	2400	-900/+1300
KING 140	2200	2380	14000	2400	-900/+1300



ACCESSORIES



**Lateral antifalling
handrails**

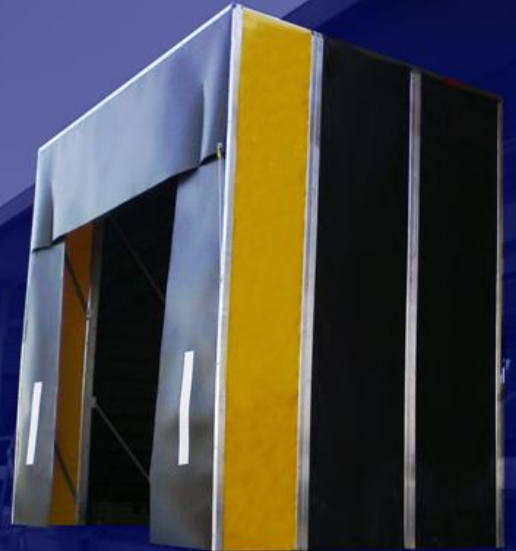


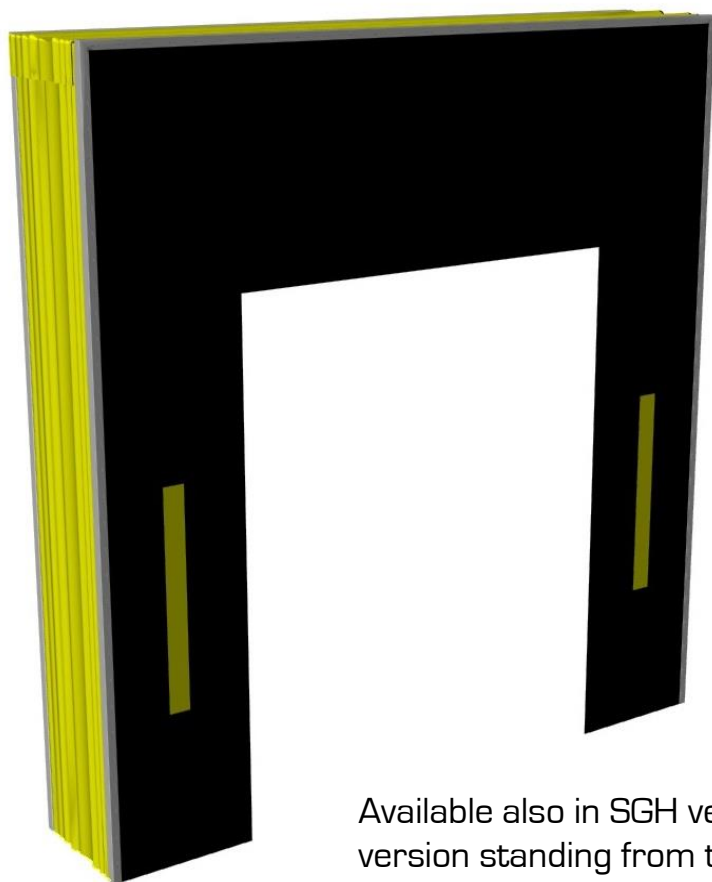
**Grid steel sheets
(for loading/unloading outside or
in relevant slip risk situations)**



PVC full covering tunnel

DOCK SHelters AND COVERINGS



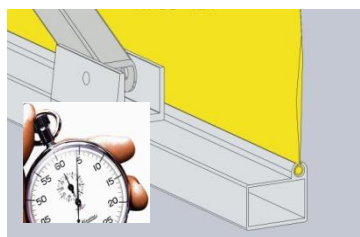
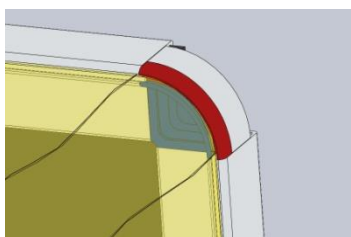


Dock shelter with lateral soft PVC front single and double frame PVC with innovative strong aluminum profile, **EASIER TO INSTALL AND MOUNT** (see user manual)



Available also in SGH version (higher 4500mm version standing from the groundfloor)

The aluminum profile has round borders allowing higher resistance to tearing



Structure is engineered with a special installation system allowing considerable time sparing, as the side yellow panels are laterally slidinginserted

DETAILS:

Black single frame PVC 1000mm wide 4mm thick front upside panel

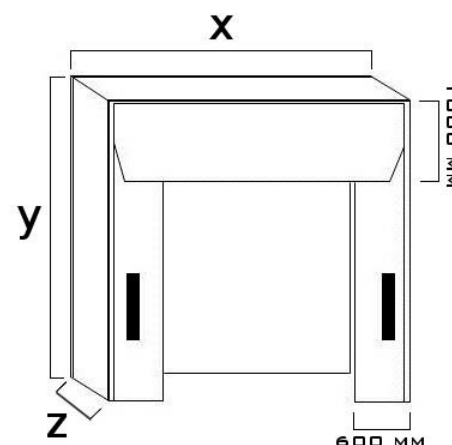
Black double frame PVC 600mm wide 4mm thick front side panels

Yellow lateral covering in Soft PVC strong anti-tearing polyester.

Black panels 30% flexibility and 40% framing.

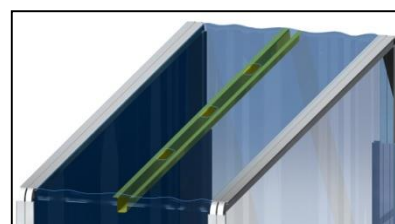
Easy panel fixing system in aluminum with joints-covering to protect fixing screws.

CODE	X (mm)	Y (mm)	Z (mm)	THICKNESS (mm)
SG.650	3460	3400	650	3
SG.900	3460	3400	900	3
SGH.650	3460	4500	650	3
SGH.900	3460	4500	900	3



Extractable curtain for vans and lower trucks

ACCESSORIES



Upside lateral covering with holes and drainage gutter

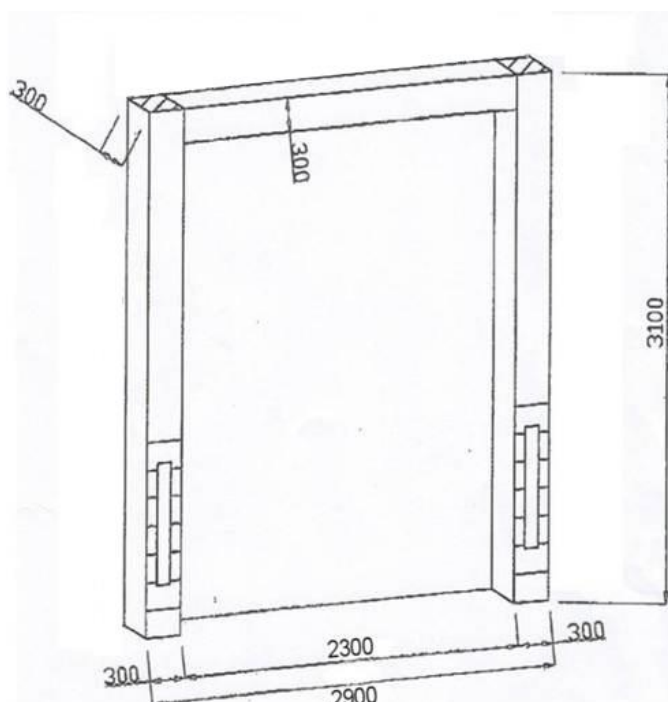
Foam Rubber Cushion Dock Shelters



PERFECT FOR:
CONTROLLED TEMPERATURE INSULATED WAREHOUSES:
HIGHLY PERFORMING INSULATION FACTOR LOADING ON
STANDARD DIMENSIONS TRUCKS AND NON-SLOPING
GROUND FLOOR SURFACE.

PVC panel shelters with foam rubber filling on wooden fixable back-plate.

Product characteristics require contacting TM Pedane sales office to evaluate needs and engineer a perfectly fitting product.



CODE	WIDTH (mm)	HEIGHT (mm)	CUSHIONS width x depth (mm)
SGG	2900	3100	300x300

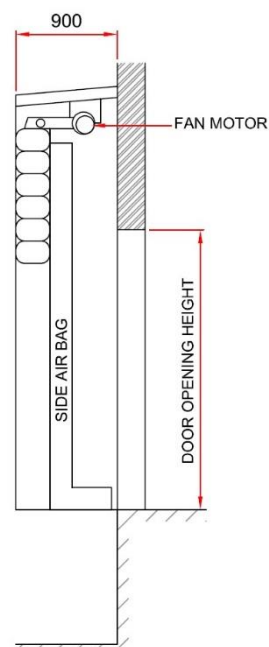
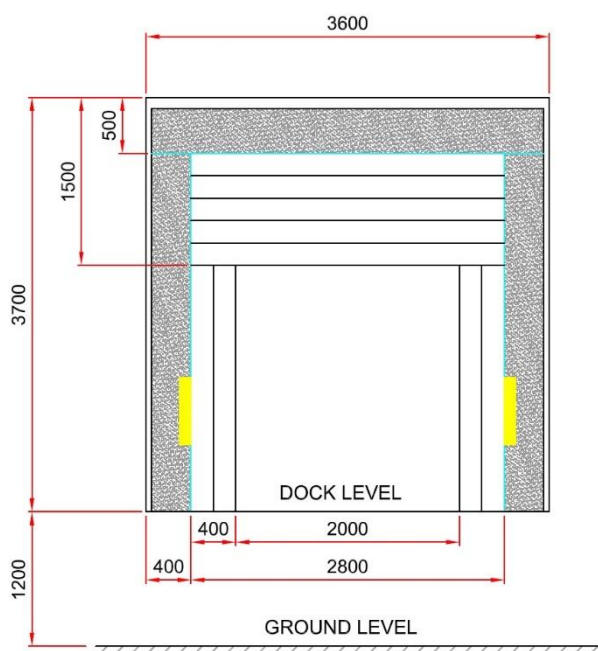


Inflatable dock shelter with sandwich panel side-covering structure and hard wearing, waterproof and anti-tear air-injectable bags

PERFECT FOR:
COLD STORES –
CONTROLLED
TEMPERATURE
WAREHOUSING
NO HEAT LOSS

CODE	X (mm)	Y (mm)	Z (mm)
SG.AIR	3600	3700	900

Retraction system ensures
a deflate time of
approx. 15 SECONDS

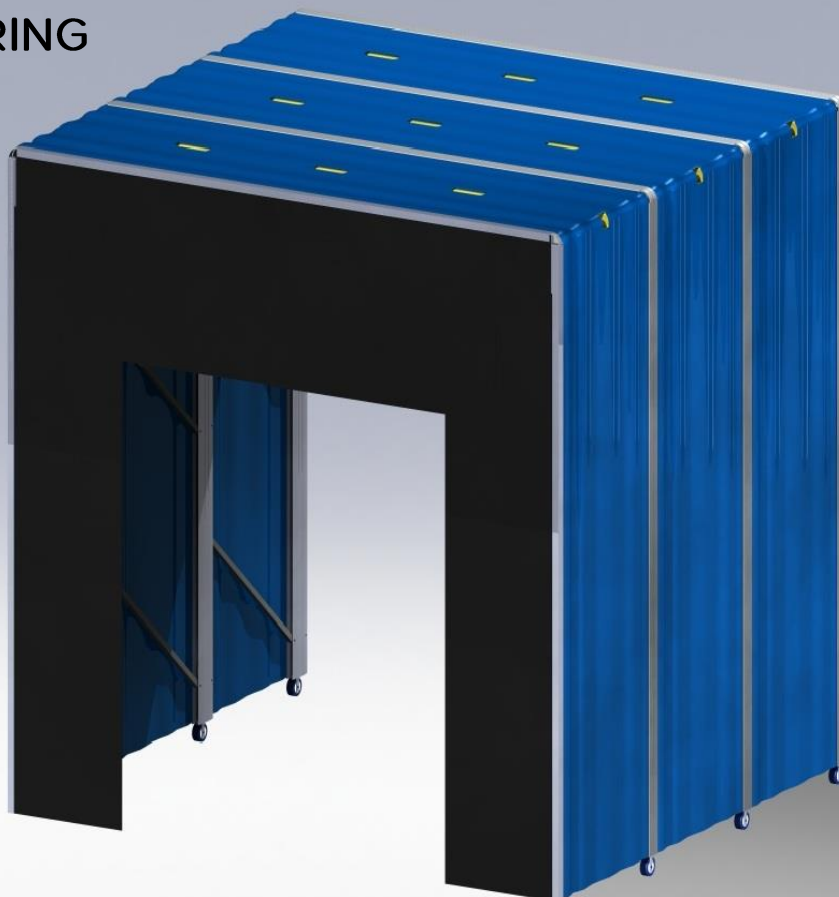
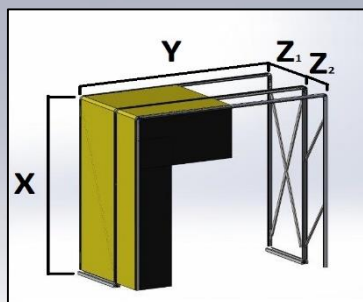


DETAILS:

- Black hard wearing and anti-tear double frame PVC front panels
- White 50mm thick sandwich panel side covering structure for top internal insulation.
- Hard wearing, waterproof and anti-tear airbags with internal retraction system giving a deflate time of approx. 15secs.
- Inflation fed by Three-phase 380-415V min 10amp fan.

22a. OVERBAY COVERING PVC TUNNEL

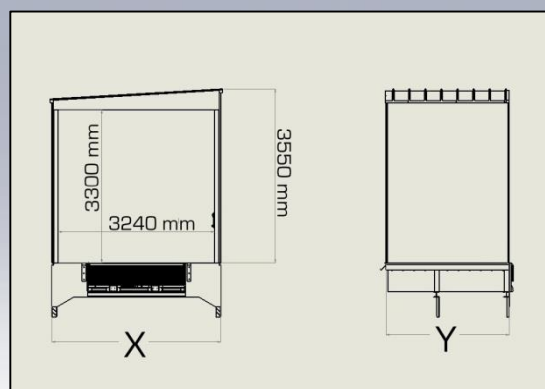
PVC antibreaking profile with
anti-ponding double sloping rooftop
to be installed on overbay profile,
NOT INCLUDED IN PRICE



CODE	X (mm)	Y (mm)
C-XB200	3400	2000+650
C-XB250	3400	2500+650
C-XB300	3400	3000+650

22b. PANEL HOUSE

Sandwich panel 40mm thick profile with
anti-ponding sloping
to be installed and completed by
**OVERBAY PROFILE,
ELECTROHYDRAULIC DOCK LEVELER
AND SG FRONTSIDE INSULATING DOCK SHELTER
NOT INCLUDED IN PRICE**



CODE	X (mm)	Y (mm)
PH200	3400	2000
PH250	3400	2500
PH300	3400	3000

ACCESSORIES



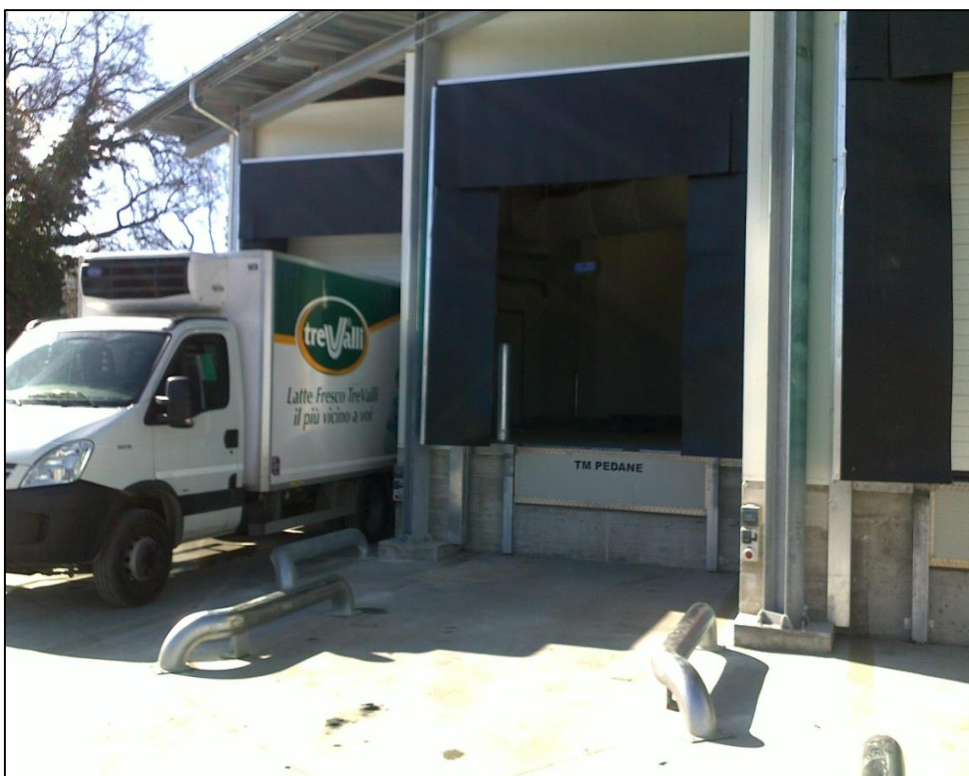
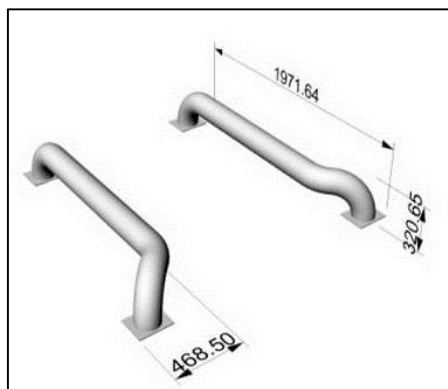


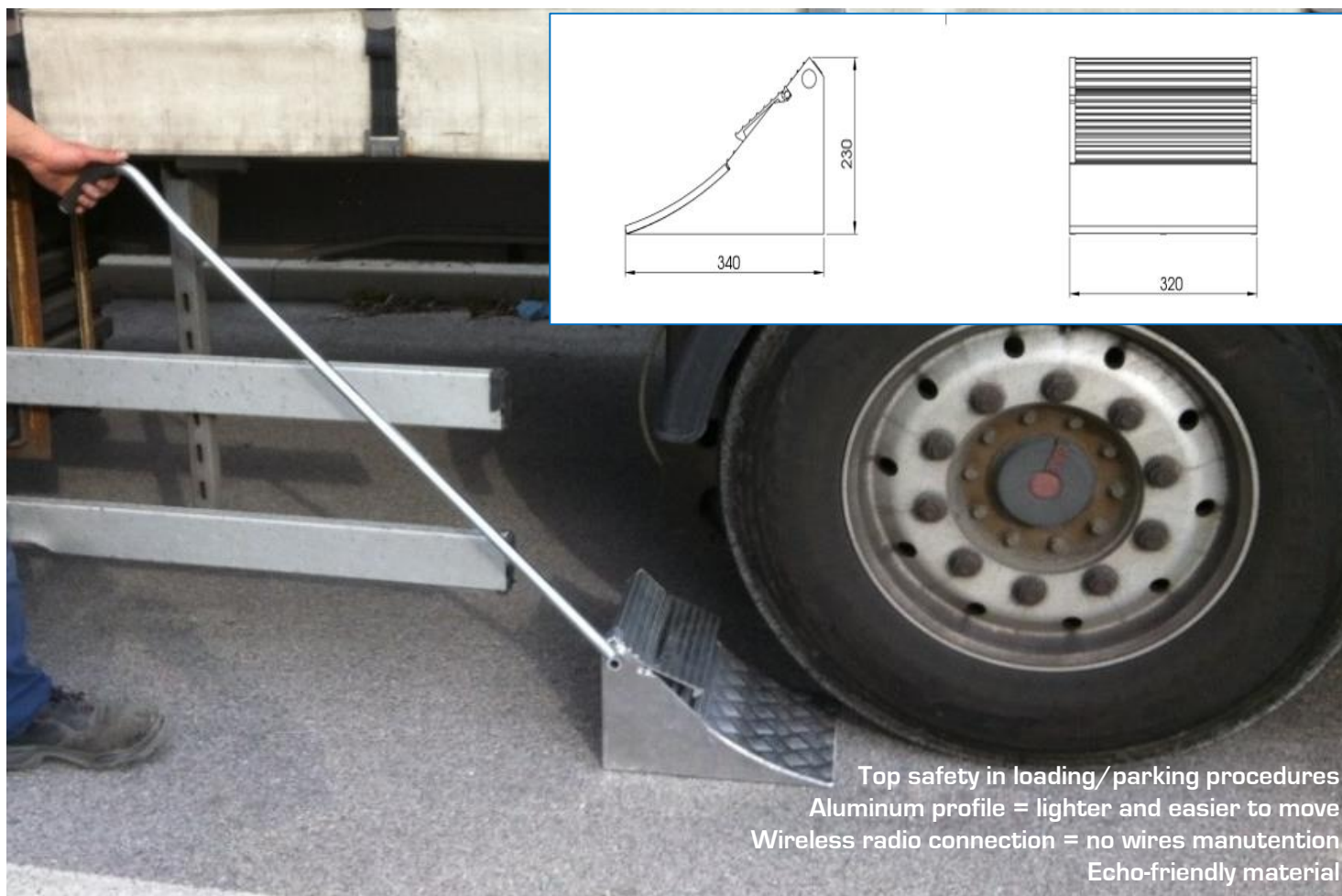
Aluminum easily positionable lifting chocks. They allow low vehicles plates lifting in order to reach loading bay level. They can be realized on every needed dimension and be send in separate pieces for easier positioning. **On request also chocks for single axle lifting can be made (see image on the left)**

24. EASYPARKING

Couple of steel tubular guides for vehicles assistance in parking procedures.

Available in BENT and STREIGHT version





1. Aluminum antigrip checker plate light **SAFETY WEDGE** easy to move

2. Light and ergonomic dead man use **ALUMINUM HANDLING STICK**

3. **LOADING BAY HOUSING KIT**: aluminum box + wall fixable safety chain against robbery.

4. **CONNECTION KIT TO CONTROL PANEL (AVAILABLE IN WIRED AND RADIO WIRELESS VERSION)***.

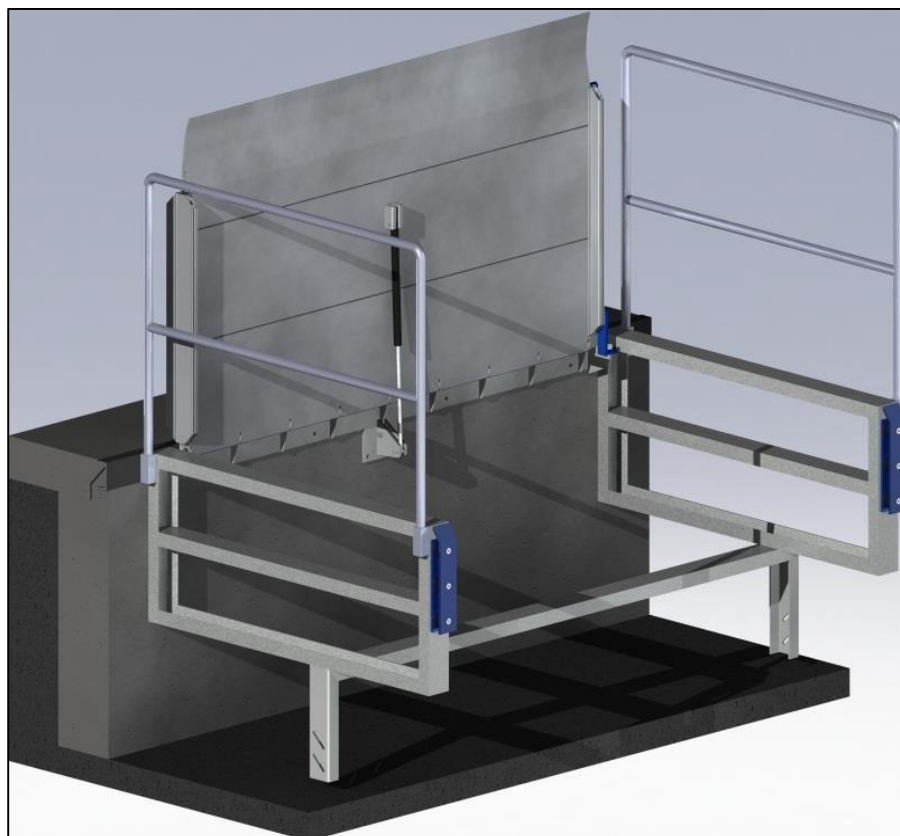
It is possible to preview **RAMP/WEDGE INTERLOCK**: activation of the electrohydraulic ramp lifting system is bound to correct positioning of the wedge, that is to say the ramp cannot be used but when the wedge is well positioned, above this if wedge were suddenly taken off ramp couldn't be brought to relax position.

5. **SIGNALING TRAFFIC LIGHT**: it can be installed both inside and/or outside the warehouse.

In case of double traffic light installation the internal light switch from red to green once wedge is correctly positioned underneath the wheel, signaling loading procedures start. On the opposite, external light switches from green to red once the wedge is taken away, signaling to truck driver he can leave.

CODE	DESCRIPTION
STGO.CN	aluminum chock + tubular handlebar
STGO.IR.CAV	wired connection kit to control panel (not included)
STGO.IR.RAD	radio connection kit to control panel (not included)
STGO.KIT	loading bay housing kit
STGO.LIGHT	kit signaling buzzer + semaphore to control panel (not included)

*Radio connected safety wedge in both versions is engineered in order to be connected INSIDE OUR MANUFACTURING PLANT EXCLUSIVELY WITH TM PEDANE PANELS. Any possible damages or malfunction due to use with different panels won't be considered under warranty



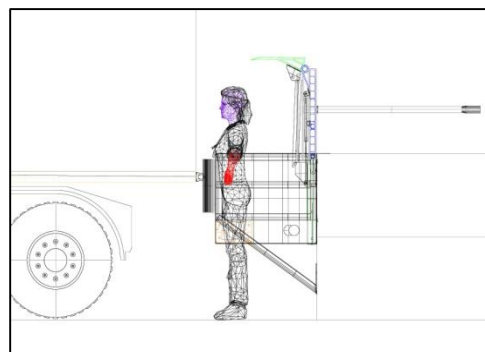
TROBBIANI'S CONCEPT

- It's a perfectly performing lateral anti-falling protection (complying with UNI EN 1398 standards in chapter 6.1.1)
- **It avoids every crushing or shearing of the operators by the truck getting back to the loading bay** as it provides shelter inside the structure itself (see image below)
- **It allows the truck to get close at the perfect distance** for loading/unloading without complicated procedures.

DETAILS:

- structural profile in galvanized steel fixed to bay border through screws and to groundfloor through feet, engineered to provide protection and refuge in case of crushing danger due to truck parking procedures.
- Lateral antifalling galvanized steel handrails
- VTM steel/rubber shock absorbing buffers (see "TAM LINE")

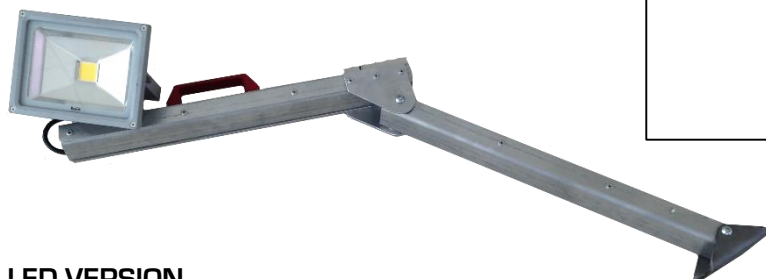
PRICE TO BE DEFINED ACCORDING TO RAMP DIMENSIONS



27. LOADLIGHT

Extensible arm system for truck inside lighting during loading procedures with aluminum extruded arm and galvanized steel joint

HALOGEN VERSION



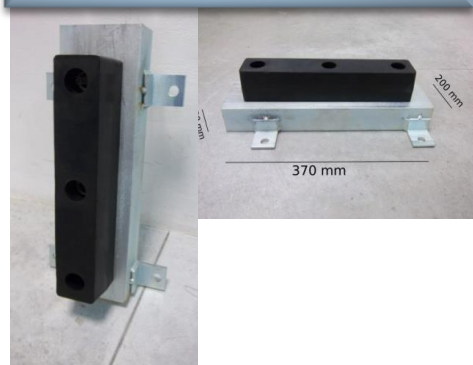
LED VERSION

Available both with halogen and with led lighting system.

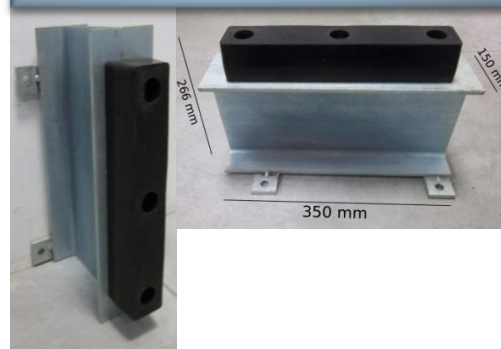
TAM-3F



TAM-U



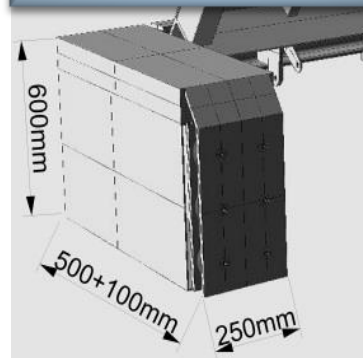
TAM-IPE



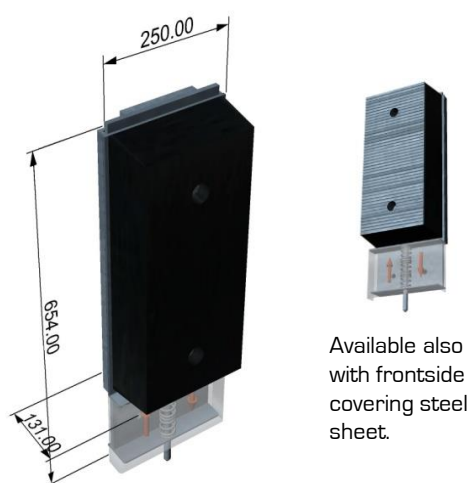
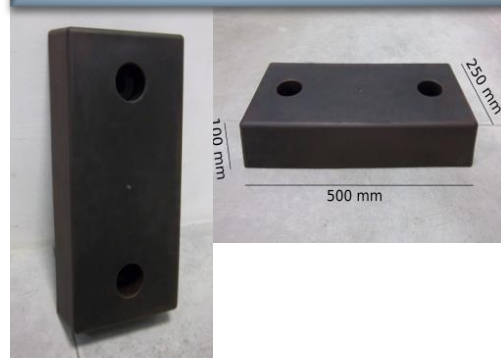
TAM-2F



TAM EXT



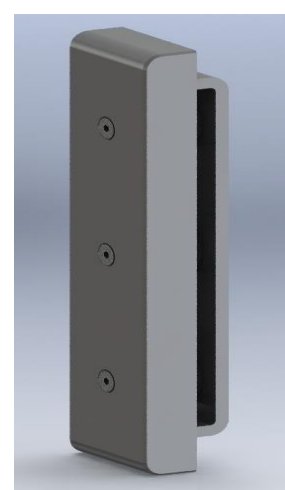
TAMSPEC



SWINGING BUFFER: it manages
to follow truck's suspensions
adjustments during loading
procedures **80% WEAR
ENDURANCE INCREASE**
(comparing with TAM2/3F)



**STEEL SHOCK ABSORBING
BUFFER:** painted steel
structure and front plate
and inside SBR rubber
absorbing buffers.
UNBREAKABLE!



**STEEL SHOCK ABSORBING
BUFFER,** with inner absorbing
pucks in anti-wearing low
failure coefficient SBR rubber
**MORE CONVENIENCE AND
ENDURANCE!**

1. Scope of appliance

These conditions will be applied to every TM Pedane bid or assignment referring to catalogue for 2011 and will prevail on the customer's terms, unless there's an expressed written acceptance by TM Pedane.

2. Implicit acceptance of the terms

All enquiries have to be written and sent with confirmation of receipt by fax (+39 0734 873010) or e-mail (commerciale@tmpedanesrl.com; info@tmpedanesrl.com) and will be followed by quotation. Each quotation sent by TM Pedane will be considered as accepted and confirmed only if it has been received altogether with these supply terms, both **STAMPED and SIGNED**, that is to say confirmed on paper and sent to the mentioned fax or e-mail contacts, without any change by the customer. Quotes for non-standard supplies, that is to say customized for the customer outside of the catalogue, in order to be accepted, have to go with a technical drawing, and both of them must be stamped and signed for confirmation, otherwise the bid is not considered as accepted. Signing the quotation, the customer automatically declares to be aware of these terms and to agree with them.

3. Change and revision of quotes/orders

Any changes or revisions affecting the quotation supply terms can become effective only after receiving a written confirm by TM Pedane, and they cannot be included in the standard catalogue price, so they must be invoiced. If the customer, for any reason, decides to modify, postpone, or cancel the order after the contracted quotation confirm, TM Pedane will have right to charge him for the work made until the change/postponement/cancellation. Any requested change during the order will cause delays on formerly fixed delivery timetable.

4. Bids and quotations duration

All bids and quotations compiled by TM Pedane last no more than 1 month.
All agreed purchase terms will be revised 2 years after the latest supply and will have to be decided, contracted and confirmed on paper again.

5. Delivery terms

The minimum delivery terms for each supply, regardless of the amount, are these: 30 days with effect from the date of receiving of our quotation and supply terms stamped and signed by the customer without any kind of change to conditions. In case of handwritten change of a quotation, TM Pedane, being not able to accept the order, will have to send a corrected quote to be stamped and signed again. All delivery times are to be considered as indicative, not obligatory. Tm Pedane commits itself to respect the delivery timetable agreed with the customer, exclusive of circumstances beyond its control. Circumstance beyond control is intended to be every event which cannot be predicted in conclusion of the agreement, making it actually reasonably impossible to claim fulfillment of any commitment to the customer. These causes can be included: suppliers non-fulfillment, illness, workers strikes, transport strikes, war, political agitations, transport problems, fires, bad weather, machinery breakdowns or any similar circumstances TM Pedane cannot be charged with. Delays on delivery terms due to circumstances beyond control cannot cause either claims for damage payment, cancellations or reductions/modifications of orders and will be communicated by fax or e-mail to the client.

6. Warranty and assistance procedures

Tm Pedane srl won't be responsible to any counterpart for any damage, loss, or extra-cost caused by failure to comply with supply agreement for already mentioned causes, that is to say any damage, loss or extra-cost due to use or inability to use of the goods, as the customer has the only right to obtain restitution of the price paid, exclusive of any transport costs.

Every sold product has a 24 months warranty period for lack of conformity, due to Italian standards art. 128 ss. d.lgs. n. 206/2005. 24 months warranty can be applied only when a product has a lack of conformity, provided it has been used correctly and in perfect compliance with its scope of appliance and with what mentioned in attached specific manual. In case of lack of conformity, manufacturer shall ensure the restoration of conformity of the product through substitution/repairing or price reduction, in order to reach agreement resolution. If, after Authorized Assistance Center intervention, this problem proved to be not a lack of conformity, the customer would be charged for any cost of verification and restoration required by Assistance Center, inclusive of transport costs if previously charged by manufacturer. Assistance and restoration completion times depend exclusively on manufacturer policy. If the manufacturer, for any reason, couldn't to give the customer back a product under warranty (fixed or changed) the manufacturer could freely go on at its own will to give back the whole price paid or to change the product with another one with same or better characteristics. If compliance with warranty requires return of the product, it should be sent back by the customer in its original complete and packaging (pack, documentation and accessories like cables, manuals, screws... included). If delivered products under warranty are collected in perfect conditions, Tm Pedane Srl will provide to send them back at customer charge. If repair is not applicable under warranty coverage Tm Pedane Srl will contact the customer to communicate the repair price on quotation. If customer decides to give up repair of the product he will be charged a sum of € 35,00 required by assistance center for product check-up. Warranty covers only repair and substitution of unusable or inefficient for manufacturing and production defects. Tm Pedane srl will never and in no case be charged with any damages or charges due to any interruption of work of elements under warranty.

Repair times of authorized assistance centers of the almost part of manufacturing companies are more or less 30 working days. Tm Pedane Srl will never and in no case be charged with damages and charges due to any delay in third part repair.

7. Jurisdiction and venue

Every controversy related to appliance, execution, interpretation, and violation of supply terms and agreements will be turned to Italian jurisdiction. For any controversy between parts about these supply terms will be dealt by Fermo Court.

8. Responsibility and withdrawal of supplier

Tm Pedane srl won't get any responsibility for any inefficiency due to circumstances beyond control as accidents, explosions, fires, strikes, earthquakes, floods, lockouts, and any other events not allowing completely or partially to accomplish the supply agreement in agreed times. If Tm Pedane Srl is unable to comply with requested order due to even temporary unavailability of the ordered product, it will have the right to withdraw the supply agreement within 30 working days from order date giving the customer a semple communication with reasons explained, following art. 54, comma 2 D.Lgs. 206/05.

9. Transportation

Supplies, exclusive of different agreements established on the written quotation, will be charged to the customer. Delivery is considered as accomplished at the moment the products get outside TM Pedane factory. In case Tm Pedane deals the delivery, it is made by external courier, so any delay is not to be charged to us.

10. Claims

Claims, to be valid, must be communicated in writing within 8 days from the date of receiving of the products. In case of correctly claimed defects, TM Pedane, except from any further warranty, commits itself to replace or repair by its own choice the defective goods, being charged only for damages or defects that can clearly be demonstrated to be directly attributed to our malpractice. Any protest or claim referring to part of the goods doesn't allow the customer not to take the remaining part within formerly fixed limits and conditions. In any case, beyond what said before, it is to be considered that, exclusive of situations ruled by D.P.R. 24.05.1998, n. 224 and allowed by art. 1229 c.c., the customer cannot either get any compensation for indirect damages, failed profit or loss in production, or claim a money compensation higher than the value of the goods. Any variations in appearance, weight or colour, whether keeping to the standard tolerance limits, do not justify any eventual claim on the invoice. Images, dimensions and weight indicated in our catalogue 2011, technical details, specifications, bids and/or order confirmations are only approximate, so variations on weight, measures and quality are allowed within the trade and law tolerance limits.

11. Payment terms

All prices on the list are VAT, transport and any other non production cost exclusive. Standard allowed payment method is bank transfer in advance. All other reprieved credit conditions can be applied only to TM Pedane trusted dealers with whom company establishes partnership agreement. Invoices must be paid off within the latest fixed date on them, otherwise the customer is to be considered as defaulter. In case of delayed payment and/ or outstanding debt, TM Pedane is allowed to bill late charges as established by D.Lgs. 231/2002. In case of delayed payment and/or outstanding debt, Tm Pedane srl will have the right to ally delay interests according to Art. 5 of D.Lgs 231/2002. In case of delayed payment and/ or outstanding debt, Tm Pedane is allowed to freeze out any duties on the contract and on any other deals with the client and to freeze out any further supply until the payment
Delivered goods remain exclusive property of TM Pedane until the complete payment.

12. Copyright

Tm Pedane reserves in any case exclusive property right to sell and/or distribute its projects, drawings and tools. Use and disclosure of documentation and its content are not allowed unless there's a specific written authorization.

13. Privacy

The data treatment itself is solely in relation to or instrumental to the activities according to the our needs and management aims. It will be performed using procedures that guarantee respect for the privacy rights of the user and consists of its collection, registration, organization, archiving, processing, modification, selection, retrieval, comparison, use, interconnection, grouping, communication, circulation, cancellation and destruction, also via a combination of two or more of the aforementioned procedures. This is according to the art. 13 of D.Lgs n. 196/2003. Data can be communicated to controlled and controlling firms, to Italian and abroad subjects, banks institutes for payments. These date are necessary in order to maintain and keep the existing relationships.

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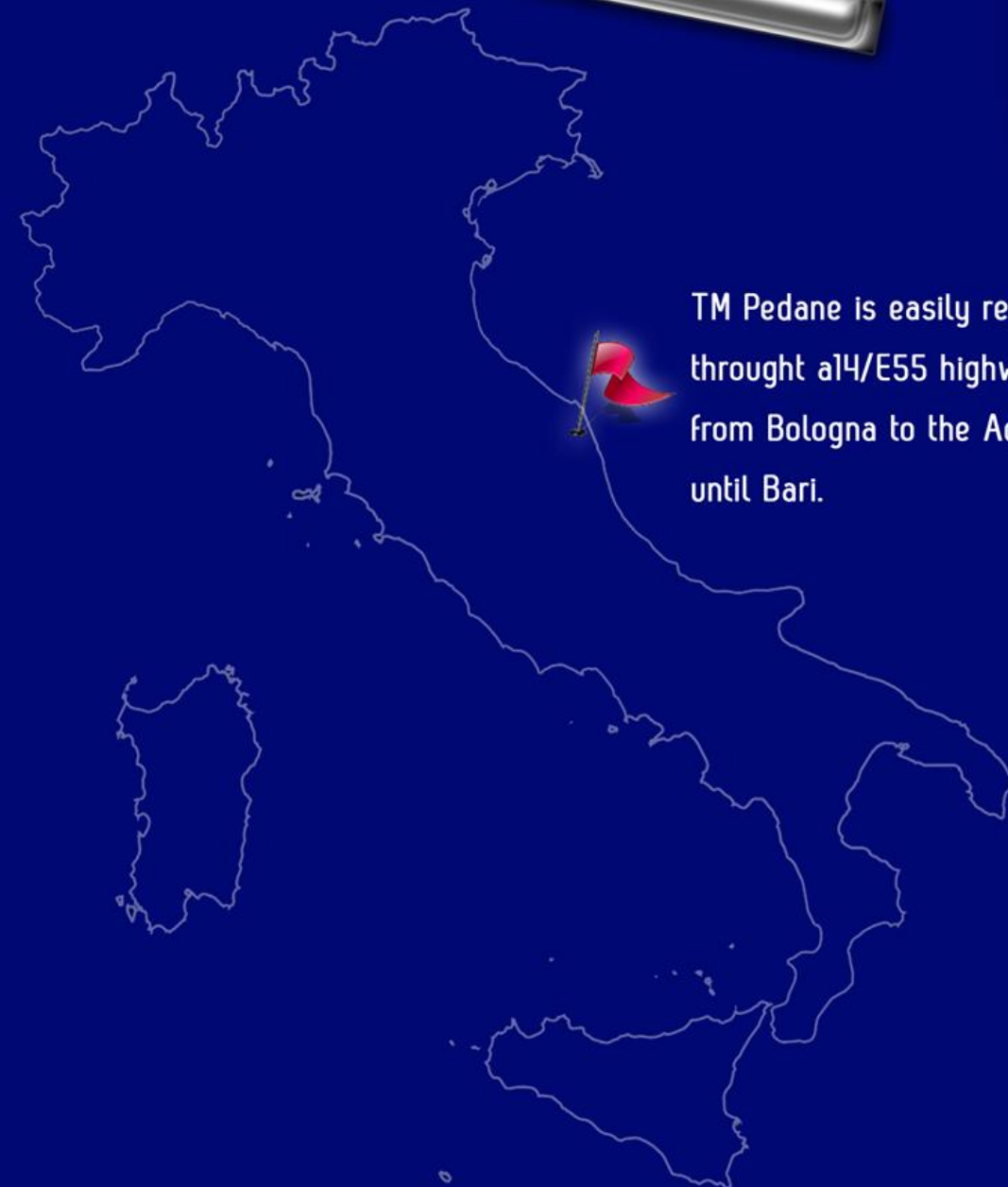
WWW.TMPEDANESRL.COM

WWW.YOUTUBE.COM/USER/TMPEDANE

TMPEDANE
TMP s.r.l.



TM Pedane is easily reachable
throughout a14/E55 highway going
from Bologna to the Adriatic coast
until Bari.





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