



**Electro - Hydraulic Dock Leveller  
Mod. KRL - I / KRA - I**



## **ELECTRO HYDRAULIC DOCK-LEVELLER WITH SWINGING LIP**

### **Mod. KRL-I**

#### **TECHNICAL DATA**

A dock leveller bridges the gap between the floor and the lorry bed enabling loading/unloading operations.

#### **OPERATION**

Once the upper plate is lifted, the lip is positioned on the loading part of the lorry and follows the up-and-down movements of the vehicle during loading operations, with a possibility of a lateral torsion tolerance of 100mm in case of unbalancing of the vehicle.

#### **CONSTRUCTION**

Upper plate made of strong steel profiles with different sections and distances between one another, the flat part is made of an anti skid steel sheet 6 mm thick + 2 mm ribs. Front lip of 400 mm, made of robust anti skid steel sheet 12 mm thick with reinforcements underneath, with a beveled front part folded in order to create the best adhesion to the loading part of the truck.

It is fixed to the upper part with hinges 20 mm thick on the total width connected by means of full mass cadmium plated axes with a diameter of 28 mm.

Front Lip holder construction antishearing according to regulations with U supports in order to avoid the lip to slip and the ramp to drop during the motion of the forklift in negative position.

#### **ELECTRO-HYDRAULIC SYSTEM**

Hydraulic movement for lifting the upper plate by means of a hydraulic chromed piston plus an opening swinging lip operated by an additional piston.

Multi-valve Electro-hydraulic control panel positioned under the ramp (with a security block system); besides the valves which regulate the flows, there is also security valve which blocks the ramp in case of accidental moving of the truck.

Control Panel IP54 for operating various functions with STOP red button for emergencies. .

Nominal capacity: kgs 6.000 concentrated

Capacity uniformly spread: kgs 10.000

Positive excursion: max 12,5%

Negative excursion: max 12,5%

EACH RAMP IS SUPPLIED WITH THE FOLLOWING

- Lateral security plates for feet, in galvanized steel with yellow-black indications.
- N. 1 control panel according to protection standard IP 54
- N. 1 hydraulic control panel with connections and electric motor KW 1 IP 54. - Power Supply 380 V three phases
- Supply subject to preassembly and test at the production facility.
- Ramp finishings in GREY RAL 7016
- Security rod.

All dock levellers are manufactured according to CE rules, and fully satisfy EN 1396 norms.

## Dock Levellers with Swinging lip “Optima” series,

Based on 4 standard dimensions:

2c = W 2.000 x L 2.350

2d = W 2.200 x L 2.350

3c = W 2.000 x L 2.900

3d = W 2.200 x L 2.900

with optimised technical details in order to offer a high competitive product.

The main differences in comparison with the classic ones are:

- Optimization of the external dimensions, with a considerable saving on transport expenses, but without losing anything regarding the performances during loading/unloading operation.
- Total height 550 mm instead of 600 mm: this way, during transport by truck and container, till n° 4 units one on the other could be put instead of only 3.
- Total length:

§ Mod. 2c/2d = L 2.350:

The ramps could be put on the truck at 90° than the track road; in this case, could be loaded till n° 24 units per truck, and 20 units instead of 12, in a HQ 40” container.

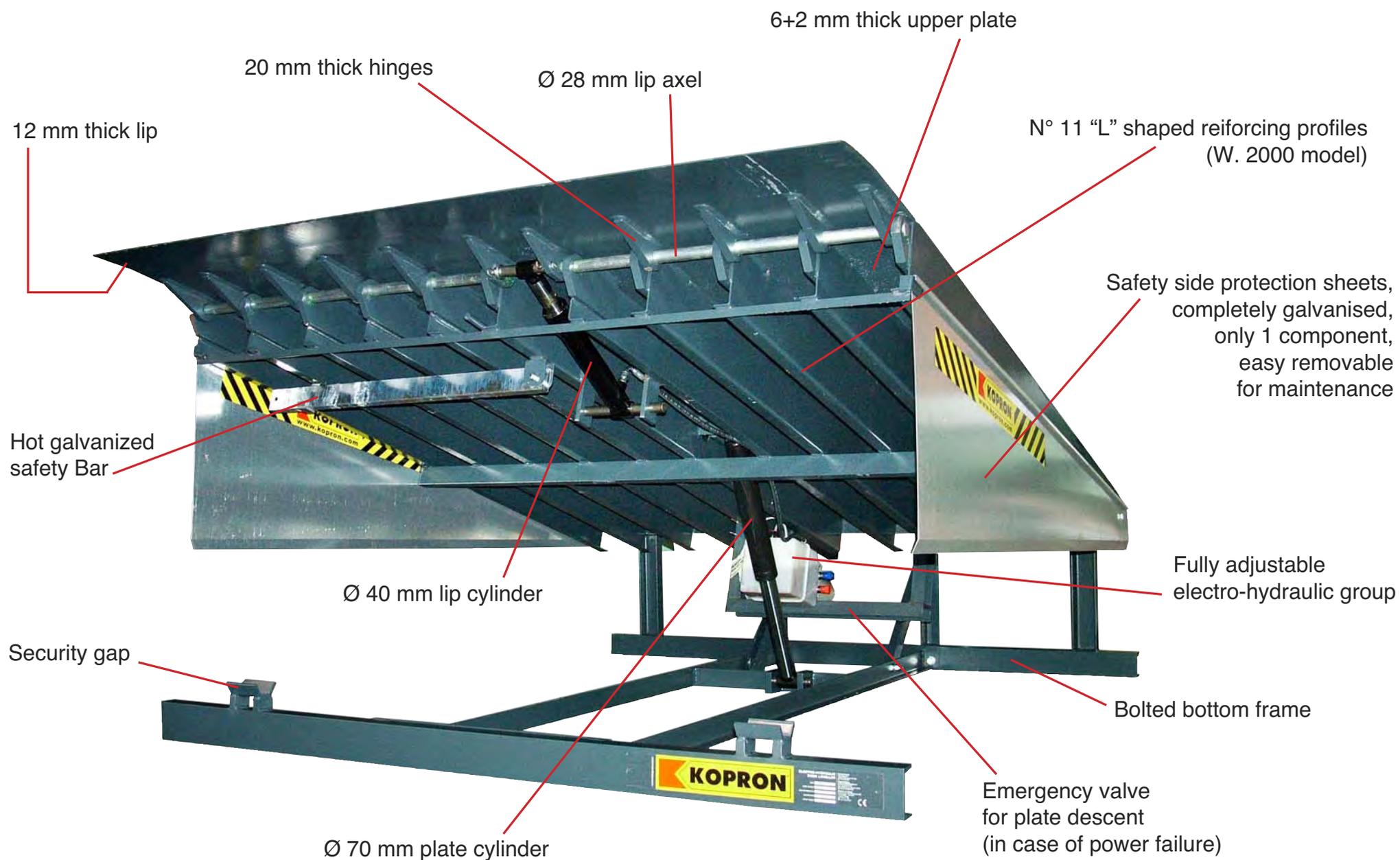
§ Mod. 3c/3d = L 2.900:

In a container HQ 40” we could load till n° 16 units instead of only n° 9.

General construction: built in a “modular” way with a unique group of upper plate/lip, to be joint with the different bottom frames in order to have all the different available versions:

- embedded;
- suspended;
- box model;
- low mould;
- high mould.

Control panel is completely new and with reduced dimensions, IP 55 protection degree, provided with all operating independent buttons



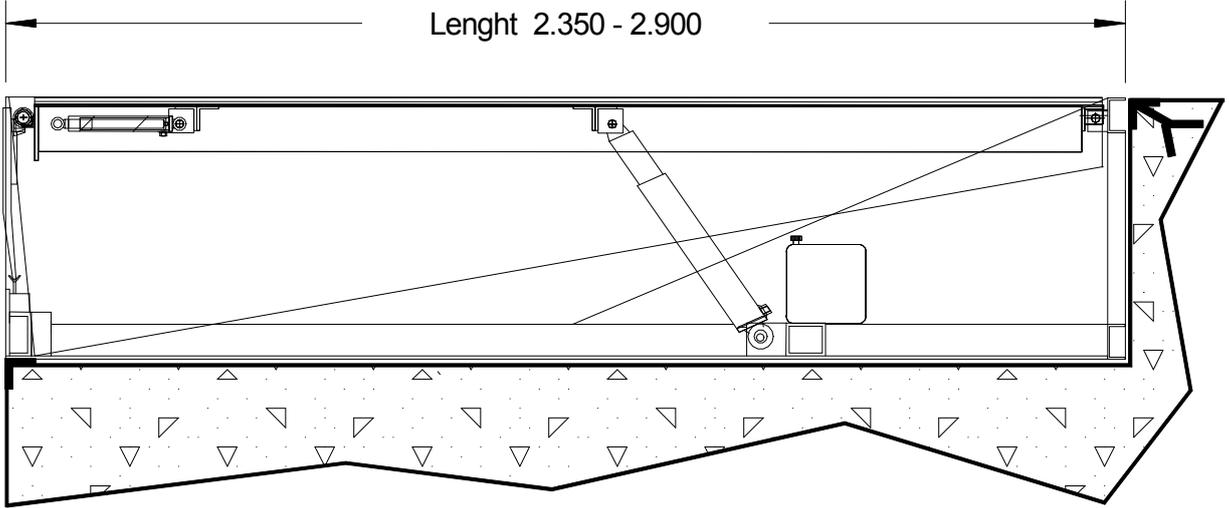
**KRL-I**



**KRA - I**

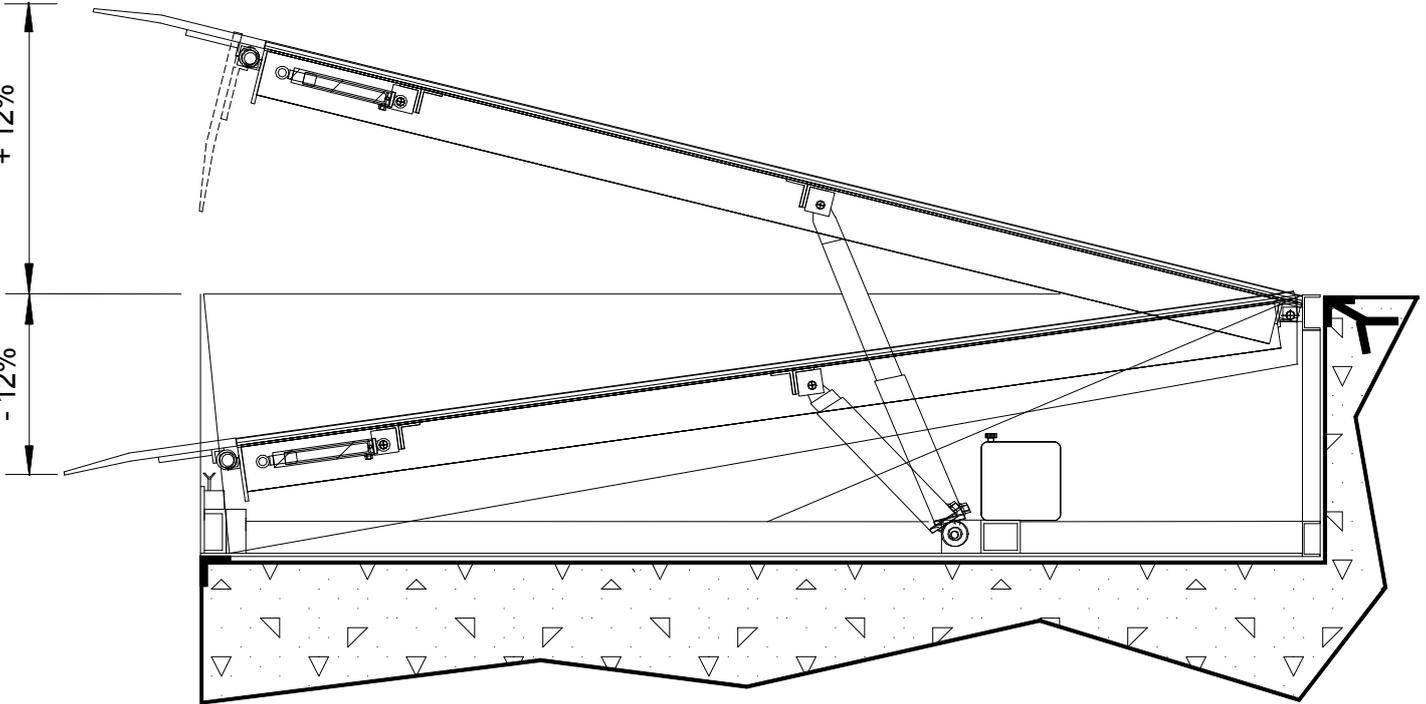
Side view

Length 2.350 - 2.900



+ 12%

- 12%

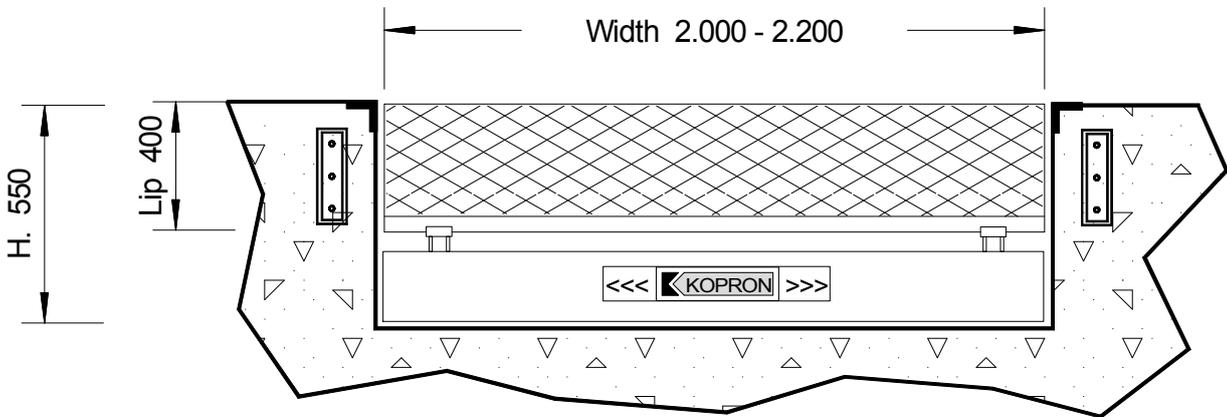


Width 2.000 - 2.200

H. 550

Lip 400

Front view

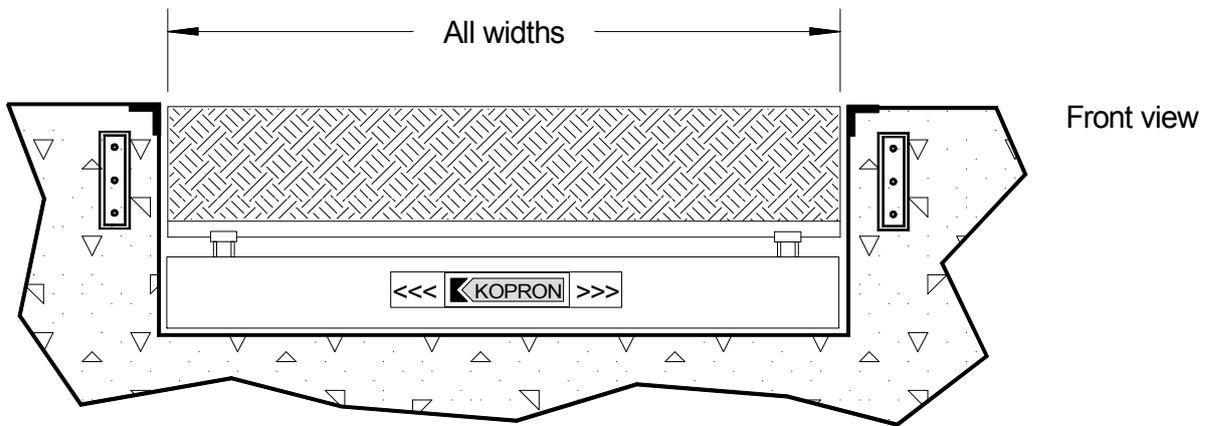


 **KOPRON**

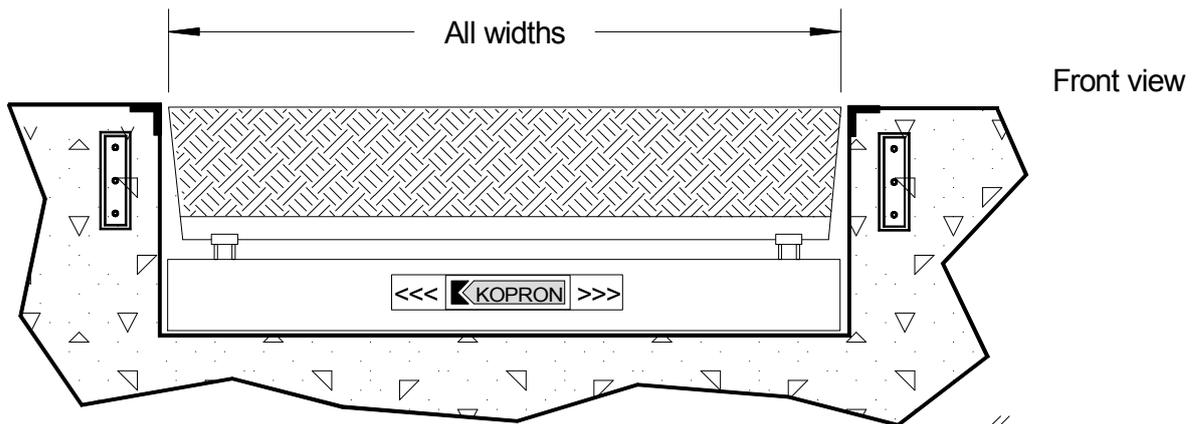
Dock Leveller with swinging lip  
Mod. KRLI "Optima" series -

# Dock Leveller Mod. "Optima"

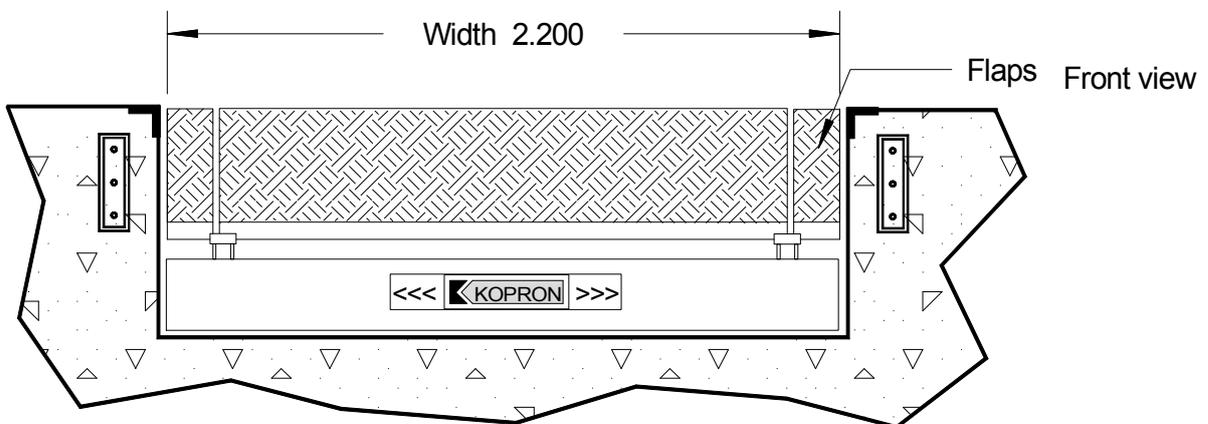
## Lip options



## Standard configuration



## Tapered lip

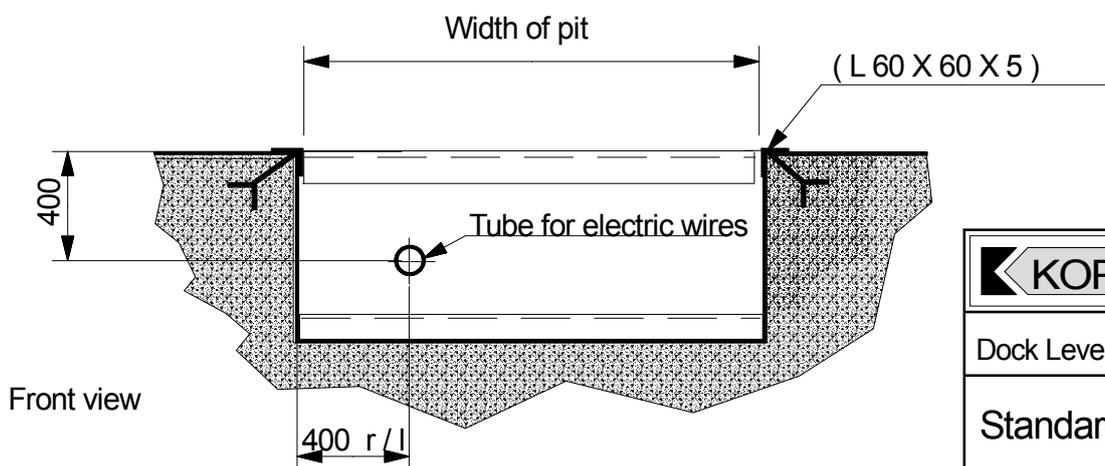
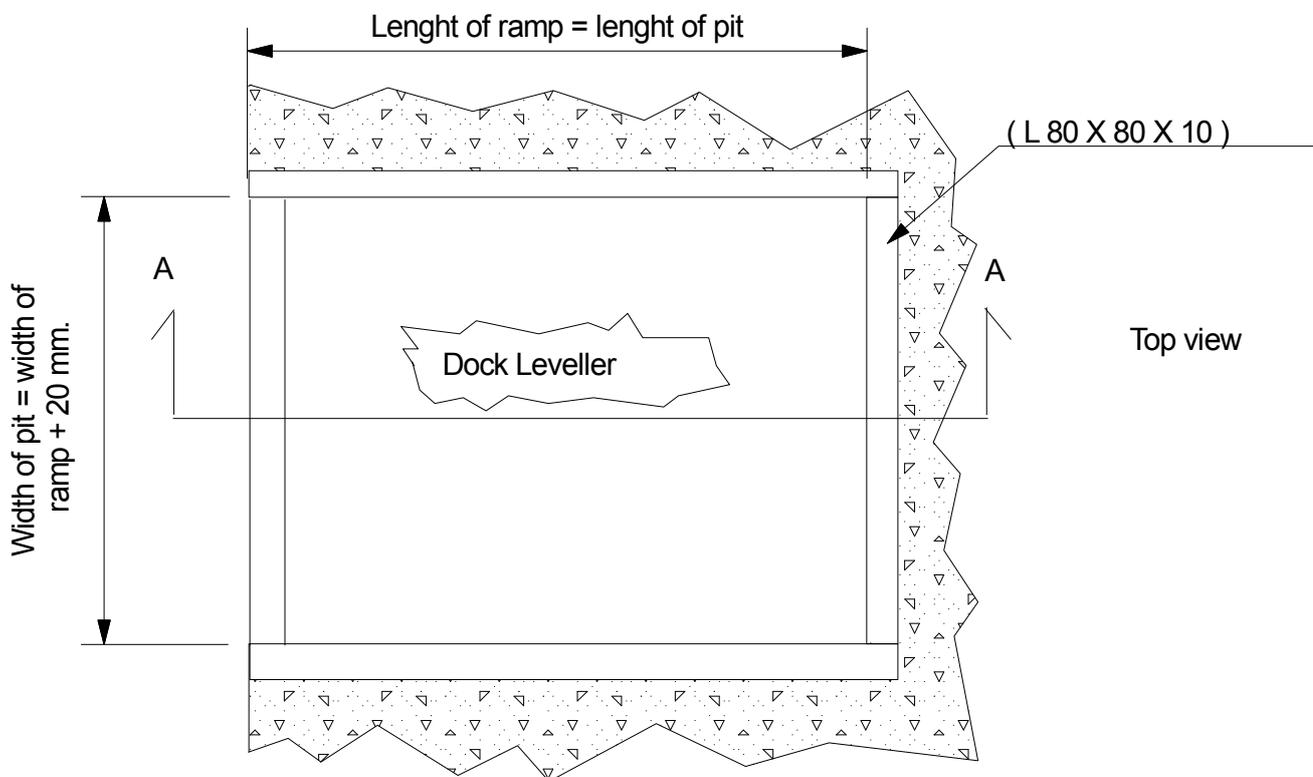
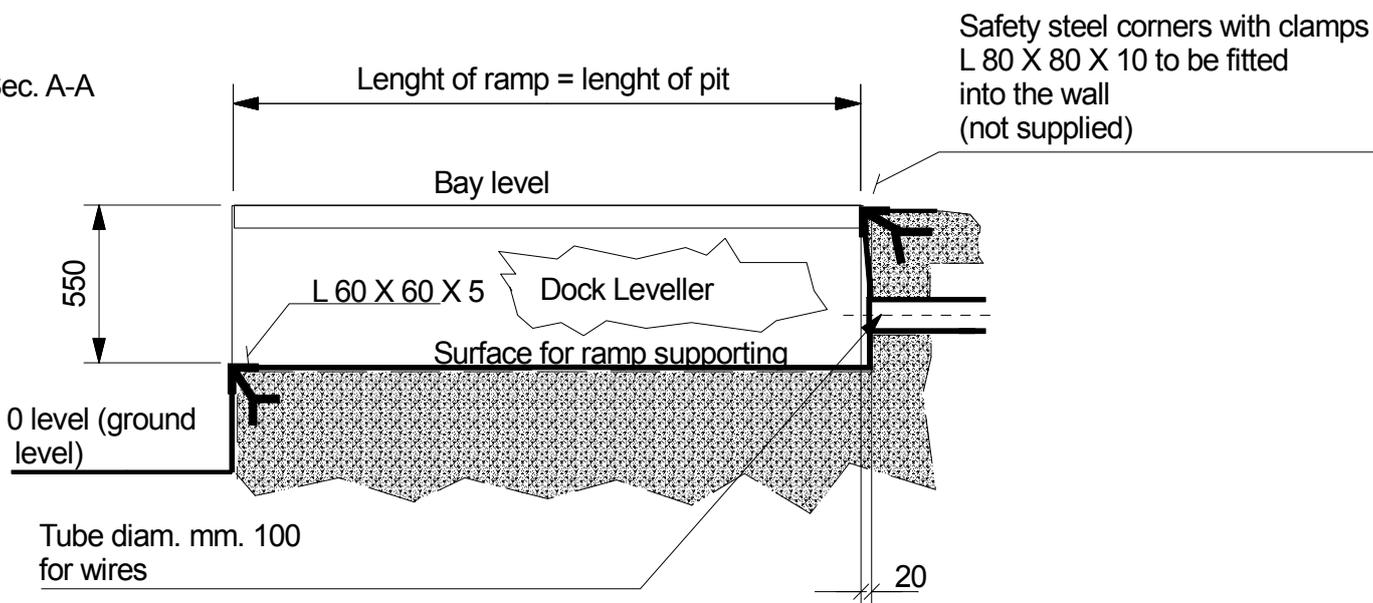


## Lip divided in three parts (with flaps)



Dock Levellers  
- Mod. KRLI -

Sec. A-A



Dock Leveller Mod. KRL-I+KRA-I

Standard pit drawing