



#### FRAME\_F8 INSTALLATION PIT EDGE FIXING F8



July 2017



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d



TYPE - Measures in mm	1 C	2 C	3 C	2 D	3 D
Le = Dock leveller lenght	2000	2500	3000	2500	3000
Wd = Dock leveller width	2070	2070	2070	2270	2270
h = Construction height	610	610	610	610	610
d = Diagonal	2878	3246	3645	3377	3762
D = Diameter cable passage	100	100	100	100	100

In frontal section the tip can have a shape at choice between the types A, B and C as listed below:



The pit's walls and bottom do not need a particular finishing since the dock leveller is self-carrying.

The Type B pit is the one we suggest you because enables the access under the dock leveller, in order to perform ordinary and/or extraordinary maintenance.



NB – The permissible tolerance on the length and width's quotes of the pit is ± 10 mm.
We remind you that the mentioned measures must be set at right angles to each other.



#### Pit frame – scheme of the forcesacting

The building works are never made by us.

So, hereafter, we show you the forcesacting on the system; they must be used in the reinforced concrete's planning.

F1 Front wheel force





#### Pit frame – frontal section

The cable passing tube ø80 shall be placed on the fuse box side. The position shown in the adjacent fig. is on the left, but it is also possible to position it indiscriminately on the right. The choice of the fuse box position must guarantee that the worker would be able to watch all the movements of the dock leveller.

The control unit has been front positioned in order to facilitate the installation. In this case, we point out that the cable passing tube has been sideways positioned in the front part, and can be put on the left or on the right according to the control unit's position required by the customer.

Furthermore, we remind you that the length of the electric wire of 7.5 m satisfies the 95% of the cases.

**WARNING!** In the renewal of the existing dock levellers, characterized by hollow passing in the back of the pit, the cable length 7.5 m may be not enough to guarantee the reach of the control unit. In case that a major superior length is necessary, detect it and report it at the stage of order.



#### PIT FRAME INSTALLATION

The first operation consists in the installation of the pit frames, which are special frames made of steel, suitable for the following fitting of the dock levellers. This frame is made by profiles 80x80x8, already tailor-made cut and welded, to be positioned and fixed into the dedicated pits of the cements loading bays. **20 60** 



Below is shown, as example, the table with the measurements for a frame suitable for a 2C dock leveller.

Materials	Dimensions	Nr.	Length
Angle bar	80 x 80 x 8	2	2580
Plate	20 x 10	2	2580
Angle bar	80 x 80 x 8	1	2070
Plate	20 x 10	2	2190

**WARNING!** The angle bars are positioned before the industrial floor is thrown and they must be well fixed to the cement loading bay using the reinforcement steels.







The reinforcement steels can be made of folded, tubular metal sheets, "16" steel round components with a distance between them ranging from 300 and 350 mm.





The frame has to be plumb and level, installed at 90° by its diagonal beams and has to be placed already assembled.



It must be then welded and/or anchored to the round elements soaked in the cement or to the chainlink fence.



The frame frontally MUST end with the loading bay frontal to avoid problems of dock leveller's inclusion.

This is the smallest frame (at dimensional level) required as surface to install a dock leveller. Optionally, you can also choose bigger dimensions (ex. angle bar 80x120mm) or you can use formworks to prepare the pit.

Calculations relating the cement's resistance and all the building works for the pits'realization are handled by the Enterprise (they are not Armo responsibility).

