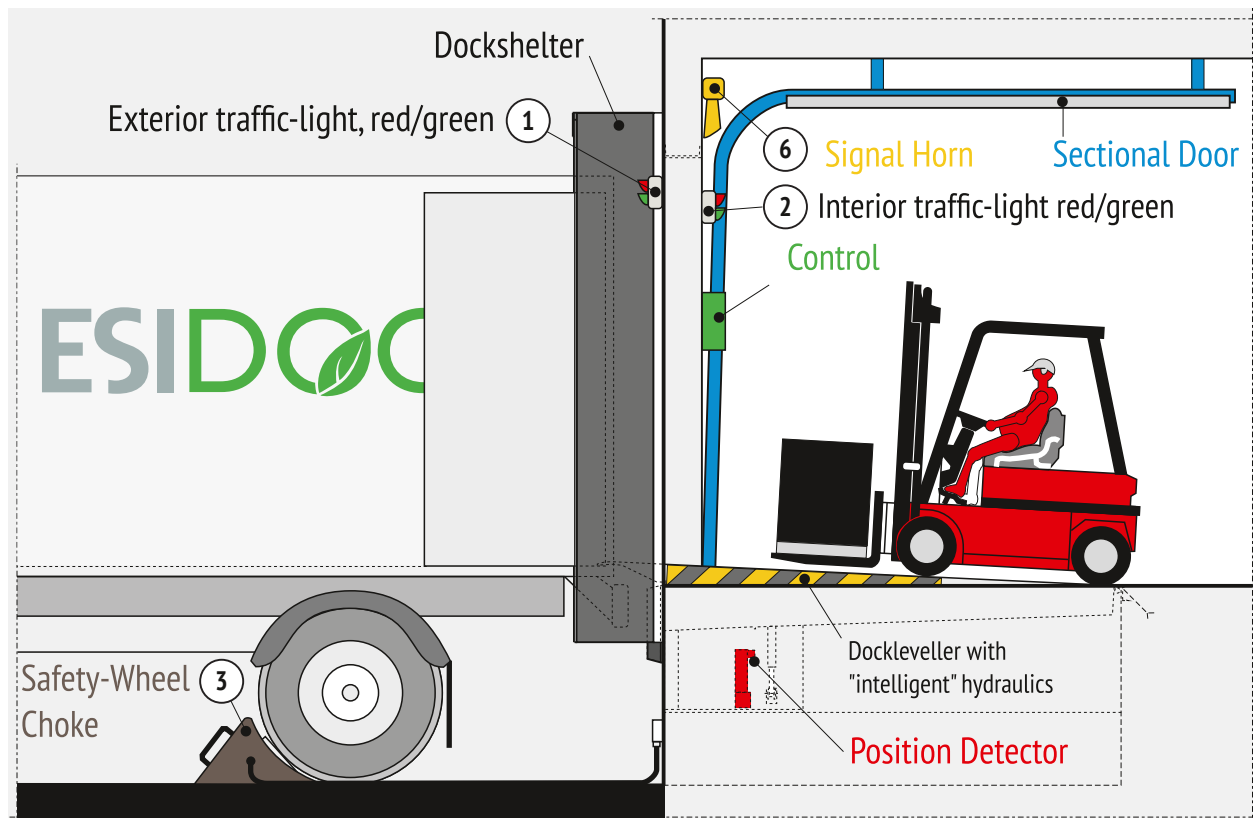


Esidock - "Safety-package" for loading docks



The interface between the ramp and the truck is still the main focus of accidents. The reason therefore is less the loading dock equipment than the loading process itself. The departure of the truck that should be loaded/unloaded mostly is the case for the heaviest accidents, because thus it could come to a crash of the industrial truck from the ramp onto the yard. Esidock offers a comprehensive "safety package" for to prevent this and to ease this danger area.

Function: An exterior traffic light red/green signalizes the truck while its docking "green". An interior traffic light red/green shows the fork-lift operator "red". Only if the truck-driver puts the wheel chock with status detection system under the wheel does the traffic light show "green" what means that the truck stands secured at the ramp and that the loading process could

begin now. (At the same time has the control of the dockleveller been unlocked.) Now can the sectional door be opened and the dockleveller be positioned at the truck. The exterior traffic light shows the truck-driver "red". An "intelligent" hydraulic lets the interior traffic light only show "green" if the dockleveller is positioned at the truck. Now can the fork-lift operator begin to load/unload the truck. After the loading process will the dockleveller be positioned in its home position. The interior traffic light shows "red" during the process. Only after that shows the exterior traffic light "green" - the truck can leave after the wheel chock is put away. Should the wheel chock be taken away during the loading and the truck try to drive away signalize signal-horn and interior traffic light "red" and the fork-lift operator knows the danger!

Changes to specification maybe made without prior notifications

Esidock - "Safety-package" for loading docks

The loading dock has to be provided with the following components:

Exterior traffic light Red/Green for truck-driver	AA	Pos.1
Interior traffic light Red/Green for storage personnel	IA	Pos.2
Wheel chock with status detection system	RK	Pos.3
Signaler "Dockleveller operated"	HD	Pos.4
Signaler "Leveller in home position"	RL	Pos.5
Signal horn, interior	IH	Pos.6
Signal horn, exterior	AH	Pos.7
Light barrier	LS	Pos.8
Locking dockleveller	BV	Pos.9
Locking sectional door	TOV	Pos.10
Switch cabinet		Pos.11
Signaler "wheel chock under wheel"	IS	Pos.12

Operating mode

1. Loading dock closed, no truck

- Pos. 1 (AA) Green
- Pos. 2 (IA) Green

2. Truck comes and docks, light barrier (LS) switches exterior traffic light (AA) to Red

- Pos. 1 (AA) Red

3. Truck-driver puts wheel chock (RK) underneath the wheel and secures the truck against rolling away.

- Pos.12 (IS) signalizes the storage personnel "wheel chock is put, truck is secured"
- Sectional door gets opened Pos. 9 (BV) gets enabled
- Dockleveller gets moved Pos. 2 (IA) Red, Safety for fork-lift
- Pos. 10 (TOV) gets active and prevents the movement of the sectional door
- Dockleveller lies on the truck Pos. 2 (IA) Green, loading begins

4. Loading occurs

- Pos. 1 (AA) Red
- Pos. 2 (IA) Green

5. Loading finished

- Dockleveller gets moved Pos. 2 (IA) Red
- Dockleveller in home position Pos. 2 (IA) Green
- Pos. 1 (AA) is permanently Red, truck must not drive away

6. Wheel chock (RK) removed

- if leveller is in home position Pos. 1 (AA) Green
- is not in home position, stays Pos. 1 (AA) Red
- Until dockleveller is in home position then Pos. 1 (AA) Green,
- Truck can drive away

Changes to specification maybe made without prior notifications

The Dockleveller

7. Sectional Door gets closed

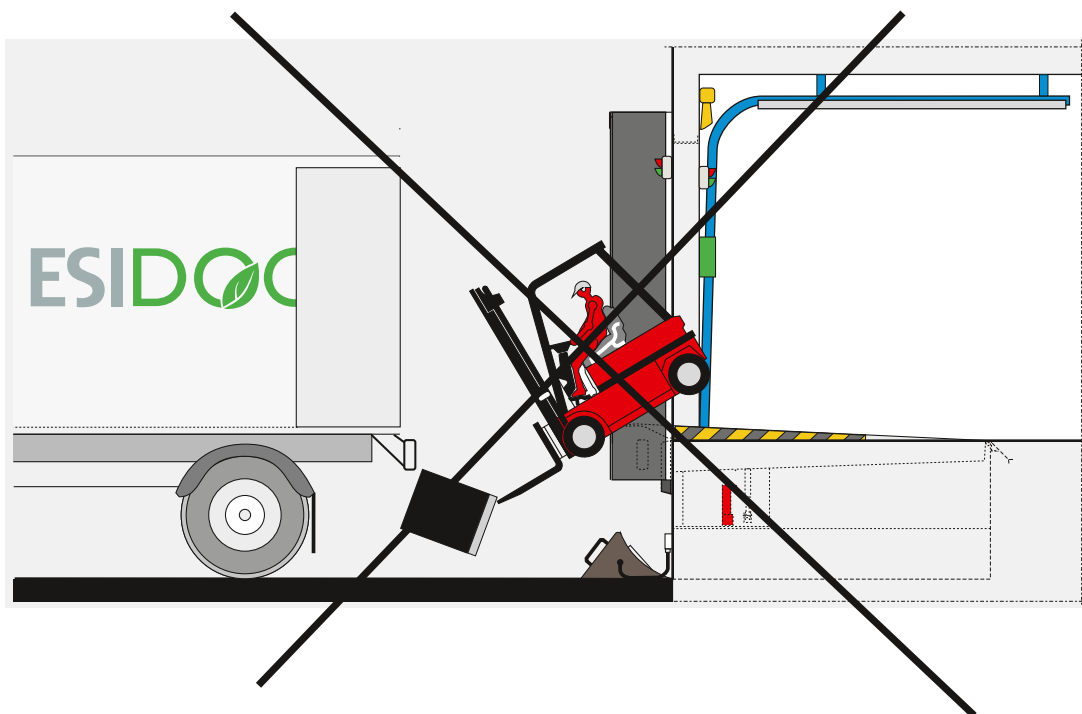
- Pos. 1 Green
- Pos. 2 Green

8. During the whole loading process is the following necessary:

- gets the wheel chock (**RK**) removed, then shows the interior traffic light (**IA**) immediately **Red** and the interior horn (**IH**) and exterior horn (**AH**) signalize the dangerous situation
- If the Dockleveller gets operated (lay on or move back), then show the interior traffic light (IA) and the exterior traffic light (AA) immediately "Red" and signalize the dangerous situation.

Basically is it possible to combine single components resp. to work with "minimized" versions. This system was planned to make the loading situations clearly more safe, to give the truck drivers as well as the storage personnel facilities to prevent (mostly very heavy) accidents.

**Safety at the loading dock prevents accidents
= saves costs**

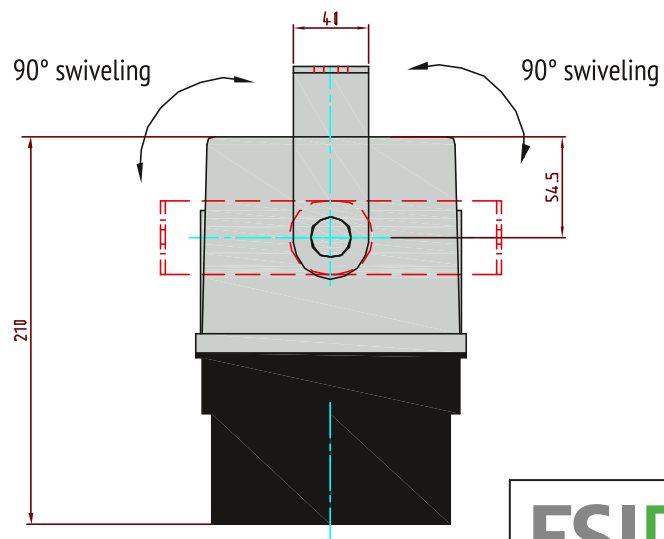
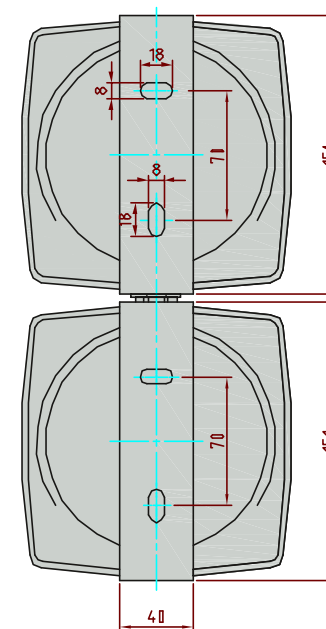
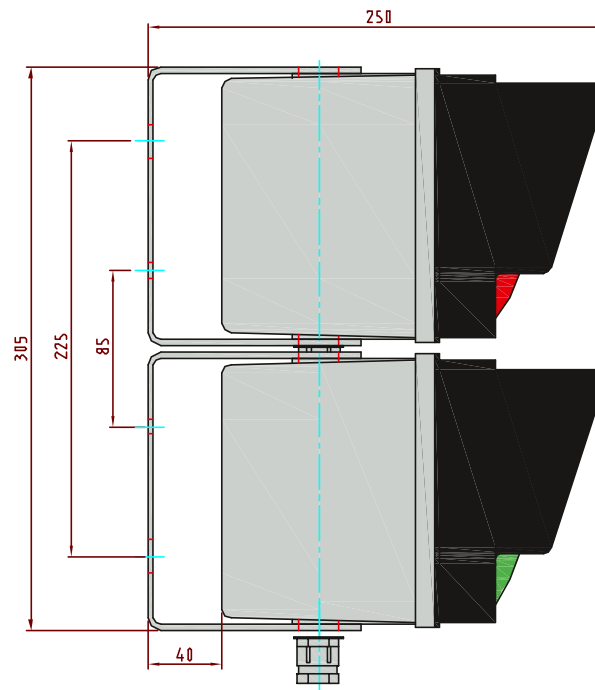
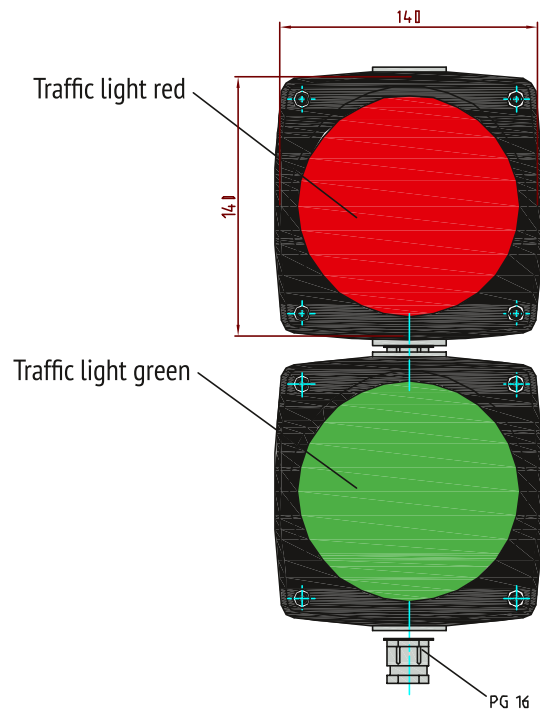


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ESIDOCK
Environmentally Secure Integrated Docks

**Revolutionising Dock
Equipment through Innovation**
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Dublin 1, Ireland
Phone: +353 1 889 9105



Product data

Indoor and outdoor traffic light:

- Type SIWA
- Weight: 5 kg
- Shock-resistant E27 incandescent lamp, 230V / 40W
- Ingress Protection rating IP65 IP 65

Subject to Technical Changes

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