

# Shelf containers

For storage of water-polluting and flammable liquids in conformity with TRGS 510

- Vertical or horizontal drum storage
- IBC / KTC storage
- Access from one or both sides
- Thermo-insulated




## Storage of water-polluting and flammable\* liquids

### Shelf containers for vertical or horizontal storage of large quantities of drums or IBCs

#### Versions:

- Grated surfaces or drum supports for horizontal drum storage
- Access from one or both sides
- Uninsulated with natural ventilation or with all-round thermo-insulation
- Without door, with sliding door or with leaf door
- **Tip:** Double-width shelf containers allow access from both sides as well as easy filling with a forklift truck

Also suitable for passive storage of flammable liquids in conjunction with the optional VbF accessory set.

 All types can also be supplied as thermo-insulated models.

#### Approval

 NATIONAL TECHNICAL APPROVAL  
DIBt German Centre of Competence in Civil Engineering, Berlin

App. No. Z-38.5-234



Shelf container with 2 storage levels and sliding doors



Shelf container with 3 storage levels

### Advantages of shelf containers for storing hazardous substances:

- Equipped with natural ventilation
- Indoor or outdoor storage of large amounts of hazardous substances in conformity with TRGS 510
- Up to three storage levels one above the other
- Box dimensions matched to Euro / chemical pallets or KTCs / IBCs
- Welded, robust, stable frame design made from steel sections
- Push-through guard on the rear wall
- DIBt-approved sumps, media resistance acc. to DIN 6601, material no. 1.0038
- Removable, hot-dip galvanised gratings
- 100 mm ground clearance prevents contact corrosion
- Standard models available for many different storage capacities (up to 120 x 200 l drums)

All-round natural ventilation, technical ventilation, explosion-proof models, with or without a heater, lighting, chemical-resistant sump coating, climate control, etc. – we have a wide range of options to help you find the optimal solution whatever the application.

### Typical application in the food industry

Protecto shelf containers are used to store large quantities of drums and IBCs



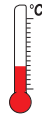
Customised shelf container manufactured and installed by Protecto

In-line shelf containers with sliding doors, access from both sides, for storing water-polluting liquids.

\* In conjunction with VbF accessory set

## Storage of water-polluting and flammable\* liquids

- Equipped with natural ventilation
- All types can also be supplied as thermo-insulated models



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Shelf container for storing drums

Also available for horizontal drum storage.

Shelf containers for vertical drum storage (access from one side), loading capacity: 1000 kg/m<sup>2</sup>

Designation	External / box dim. mm (l x w x h)	Storage levels	Collec. volume l	Capacity (200 l drums)	Without door	With leaf door	With sliding door
					Order no.	Order no.	Order no.
RC FS 14-13.1	3120 x 1475 x 2630 3000 x 1340 x 2300	1	450	10 directly on grating or 8 on 2 CPs or 6 on 3 EPs	<b>19500</b>	<b>19502</b>	-
RC FS 14-13.2	3120 x 1475 x 3000 3000 x 1340 x 1240	2	450	20 directly on grating or 16 on 4 CPs or 12 on 6 EPs	<b>19503</b>	<b>19505</b>	-
RC FS 14-13.3	3120 x 1475 x 4490 3000 x 1340 x 1240	3	675	30 directly on grating or 24 on 6 CPs or 18 on 9 EPs	<b>19506</b>	<b>19508</b>	-
RC FS 14-23.1	6240 x 1475 x 2630 3000 x 1340 x 2300	1	900	20 directly on grating or 16 on 4 CPs or 12 on 6 EPs	<b>19509</b>	-	<b>19510</b>
RC FS 14-23.2	6240 x 1475 x 3000 3000 x 1340 x 1240	2	900	40 directly on grating or 32 on 8 CPs or 24 on 12 EPs	<b>19512</b>	-	<b>19513</b>
RC FS 14-23.3	6240 x 1475 x 4490 3000 x 1340 x 1240	3	1350	60 directly on grating or 48 on 12 CPs or 36 on 18 EPs	<b>19515</b>	-	<b>19516</b>



**TIP**  
Double the maximum storage capacity: all shelf containers can also be supplied as double-width models for access from both sides.

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Shelf container FS 14-24.2 ST, order no. 19579

Shelf containers for IBC storage (access from one side), loading capacity: 1200 kg/m<sup>2</sup>

Designation	External / box dim. mm (l x w x h)	Storage levels	Collec. volume l	Capacity (1000 l IBCs)	Without door	With leaf door	With sliding door
					Order no.	Order no.	Order no.
RC IBC 14-14.1	3500 x 1450 x 2630 3380 x 1340 x 2150	1	1000	3	<b>19562</b>	<b>19564</b>	-
RC IBC 14-14.2	3500 x 1450 x 3615 3380 x 1340 x 1500	2	1000	6	<b>19566</b>	<b>19568</b>	-
RC IBC 14-14.3	3500 x 1450 x 5315 3380 x 1340 x 1500	3	1000	9	<b>19570</b>	<b>19572</b>	-
RC IBC 14-24.1	7000 x 1450 x 2630 3380 x 1340 x 2150	1	1000	6	<b>19574</b>	-	<b>19575</b>
RC IBC 14-24.2	7000 x 1450 x 3615 3380 x 1340 x 1500	2	1200	12	<b>19578</b>	-	<b>19579</b>
RC IBC 14-24.3	7000 x 1450 x 5315 3380 x 1340 x 1500	3	1800	18	<b>19582</b>	-	<b>19583</b>

\* In conjunction with VbF accessory set

## System: Shelf containers, type IBC 14-24.2, with sliding door

### Project example: IBC storage at an industrial site



#### Requirements:

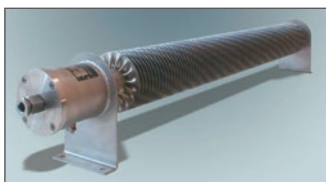
- ≡ Storage units for water-polluting and flammable substances
- ≡ Distributed arrangement on site
- ≡ Filling with forklift truck
- ≡ High storage flexibility (IBCs and drums)

#### Design:

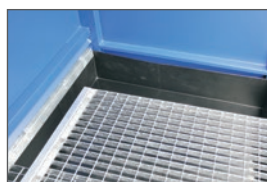
- ≡ Shelf container, type IBC 14-24.2, with 7 m long sliding doors and 2 compartment units side by side, each with 2 storage levels one above the other
- ≡ Compartment height 1500 mm for storage of 12 IBCs (or drums)
- ≡ Suitable for water-polluting (WGK 1-3) and flammable (R10-R12) substances provided the safety distances from surrounding buildings are observed
- ≡ All-round natural ventilation
- ≡ 1200 litre steel sump, DIBt-approved
- ≡ Storage levels with removable, hot-dip galvanised gratings
- ≡ Smooth-running, lockable sliding doors for easy handling
- ≡ Push-through guard on rear wall
- ≡ Anti-corrosion paint with ground clearance for additional corrosion protection
- ≡ Foot plates for secure anchoring

#### Excerpt from accessories for shelf containers

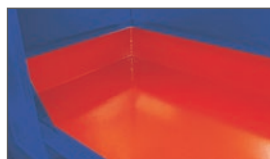
Designation	Order no.
<b>VbF accessory set</b>	<b>20058</b>
<b>Lighting</b>	<b>51782</b>
<b>Lighting, explosion-proof</b>	<b>46103</b>
<b>Finned tube radiator 2 kW</b>	<b>12579</b>
<b>Finned tube radiator 2 kW, explosion-proof T3</b>	<b>61011</b>
<b>Electrical socket 230 V</b>	<b>51779</b>
<b>Electrical socket 230 V, explosion-proof</b>	<b>105062</b>
<b>Technical ventilation, explosion-proof</b>	<b>51084</b>
<b>Polyethylene (PE-HD) tray insert for aggressive media</b>	<b>60060</b>
<b>Protecto Yxolit CR (chemical-resistant sump coating)</b>	<b>49015</b>
<b>Maintenance for shelf container</b>	<b>20057</b>



Finned tube radiator



PE tray insert



Protecto Yxolit CR (chemical-resistant coating)

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