

Pails Manual

UN LIQUID RANGE

ROPAC® - Premium Packaging Protection

JULY 2015



Schoeller Allibert



 PREMIUM PACKAGING PROTECTION

www.ropac-packaging.com

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Closing

For clients with high volumes and large throughput we can recommend suppliers of automatic lidding presses which can be integrated into the clients filling line. Alternatively, for more modest requirements, we suggest a semi-automatic lidding press which is very easy to use.

For smaller production series you can close the containers manually. We are able to supply a custom made nylon ring, which will enable the user to close the lid quickly and securely.



Manual Closing

1. Place the lid on the container with the attention that the tamper evident tear-strip grip will not restrict the movement of the handle
2. Ensure that the Flex-Spout (if fitted into the Lid) is as close as possible to 90 degrees away from the handles
3. The lid should be positioned on the pail so that the hooks of the lid are directly above the holes of the pail
4. Place the nylon ring on the lid taking note of its correlation to the tamper evident
5. Using a nylon headed heavy hammer (preferably anti-recoil) hit the ring sharply in 3 to 4 different points around the circumference
6. Remove the ring and ensure that all hooks are securely inserted into the holes; the pail is now tight and ready for shipment.





Secure re-closing of the lid with clips

For certain applications, clients who fully remove the lid to use the contents may need to re-close the container to safely store residual product for future use. For these kind of applications simply placing the lid back on the container isn't sufficient to ensure a good, tight seal.



Ropac® have produced a range of Stainless Steel Clips which can ensure a tight seal during on-site storage to preserve the contents in a good way.

There are two versions available (5 Litre or 10 & 20 Litre version). Each of these Stainless Steel clips are formed, heat treated and then rolled in barrel of cleaning media to avoid sharp edges.



For a good, tight seal, we recommend the use of 3 clips per closure placed equidistantly around the rim of the pail and lid.

To use

1. Ensure that there is no residual material around the rim of the bucket which could make the bucket and lid stick together over time.
2. Firmly press the lid equally onto the rim of the bucket.
3. Take a Stainless Steel Clip and hook the short end into the recess on the shoulder of the pail. Gently flex the top of the clip to hook onto the top of the lid.
4. Repeat this a further 2 times at 1/3rd intervals to ensure a good, equal closure.
5. Opening the container for future use is a reversal of the above. All clips have the possibility to be re-used multiple times.



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Semi-Automatic Closing

For clients who are looking for a semi-automatic solution to sealing the pails we can supply a small machine.

The contact plate movement is pneumatically operated by a foot pedal or 2 hand start (option) is pre-set for the specific pail at the factory.

For Liquid Pails the contact plate is fitted with an adaptor for pre-loading the lid therefore ensuring correct position of container / lid during closure.

1. After positioning on a suitable bench or work station and connecting the compressed air supply the machine is ready for operation.
2. The recommended working pressure is 6.0 bar for the 5, 10 & 20 UNLIQ pails. All machines will be configured to work safely and correctly with the relevant pails.
3. Position the container under the pressure plate by means of based plate and neck guides, therefore ensuring correct positioning.



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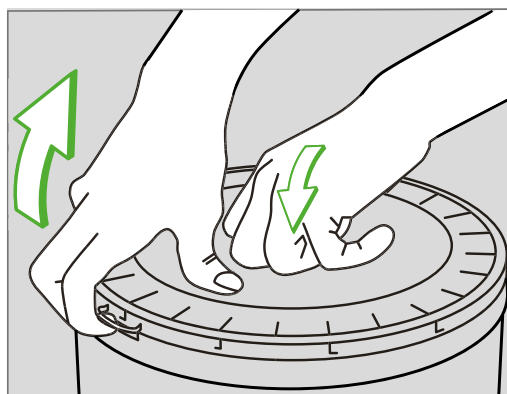
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Opening - Whole Container

1. Placing the container on a flat and even surface to avoid any spillage of the content.
2. Take the finger hole on the right hand side of the lid and evenly and consistently pull away from the pail at 90 degrees to the pail, rotating the pail as necessary.

Lift up plastic lid

3. With one hand, push firmly on the middle of the lid; with the other hand, take the remaining opening loop and pull it upwards to release the lid partly from the pail. Now the lid can be easily opened with one hand.



Re-Closing of the Lid

1. The lid can be re-closed by pushing firmly with both hands around the circumference of the lid (or by tapping with a plastic or wooden hammer) until the lid is engaged onto the top lip of the pail.
2. The packaging is now tight although it will be no longer UN-certified.
3. Use of clips for safety.

Opening - Containers with Flex-Spout (illustrated left)

1. Placing the container on a flat and even surface to avoid any spillage of the content.
2. Ease up the Finger-Pull element of the Flex-Spout by pulling firmly upwards.
3. Once the Flex-Spout is completely upright and extended you can then open the Closure to give access to the contents.
4. This closure is re-sealable numerous times for part usage within your organisation.



Use

1. Filling Temperature

The maximum filling temperature of the contents is 80° C (175° F). We recommend to cool down the content to 30° (85° F) before the Pail can be closed and stacked. This prevents a vacuum forming inside the container and a deformation of the pail at lidding.

2. Filling Level

The UN Liquid pails have to be filled at least 98% of the maximum volume under lid (and not weight).

3. Emptying

Open the container following the instructions under Opening. Holding the handle with one hand, place your other hand in the recess in the base of the container to tip the container and pour out the contents as required.

4. Lifting

The pail can be easily lifted and moved, both mechanically and manually. On the smaller sizes, use the carry handles to move each pail easily, on the larger sizes be aware of the pack weight and carry singularly with both hands if necessary.

NOTE! Please be aware of any local and/or corporate Health and Safety restrictions when handling or lifting the containers

5. Freezing

The range of ROPAC® pails are manufactured from high performance HDPE and are resistant to temperatures down to -18°C. At temperature below -5°C it is important to protect the Pail from shock loads.

6. Air Transport

Schoeller Allibert Swiss recommends shipment in pressurized cargo holds for air transport of packaging. We cannot guarantee optimal or correct performance if packaging is shipped in cargo holds without pressure regulation. Due to differences in air pressure a container can begin to deform.

The duration of transport, filling level, type of contents and the way of packing and palletising can all have different effects on the packaging and contents.

We strongly advise clients to test each packaging and shipping mode prior to dispatching.



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Static Load

When stacking the ROPAC® LIQ range for storage in e.g. a warehouse or cold store it is important to know what the maximum stacking load can be on the bottom container. The stacking load depends enormously on: the container weight, the number of containers to be stacked, the weight of interlayers and pallets, surrounding temperature, the duration of the load and the surface beneath the bottom containers.

Set	Load (Kg)	Temperature (°C)	Time
Ropac® LIQ 5 range	Y: 141	40°	28 days
	Z: 312	23°	24 hours
	X: 108	23°	24 hours
Ropac® LIQ 10 range	Y: 174	40°	28 days
	Z: 257	40°	28 days
Ropac® LIQ 20 range	Y: 196	40°	28 days
	Z: 290	40°	28 days
	X: 192	23°	24 hours

The table shows for each ROPAC® LIQ range of products the maximum stacking load (in kg) at a given surrounding temperature during 24 hours or 28 days placed on a flat and closed surface or pallet.

Attention! The above mentioned figures are indicative. Schoeller Allibert Swiss recommends to perform additional testing.

When stacking the pails, the temperature of the content has to be equal or lower than the ambient temperature.



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Pallet 100cm x 120cm (40" x 48")	
5 Litre Pails	23 pieces per layer
10 and 20 Litre Pail	12 pieces per layer

Pallet 80cm x 120cm	
5 Litre Pails	18 pieces per layer
10 and 20 Litre Pail	11 pieces per layer

Pallet 114cm x 114cm (45" x 45")	
5 Litre Pails	25 pieces per layer
10 and 20 Litre Pail	16 pieces per layer

Refer to technical data sheets regarding stacking heights



Palletisation - Filled pails

1. Pallet

The pallet has to present an almost plain surface fitted with planks which intermediate gaps shall not exceed 5cm. In case a pallet is placed on top of another pallet, the surface between both pallets needs to be flat and rigid to avoid pressure points on the top layer.

2. Recommendations

Schoeller Allibert recommends to place the filled containers on a pallet as shown on page 09.

3. Stacking

Filled containers are placed on a flat surface and stacked by placing the base of the container on the counter shape of the lid.

In case a pallet is placed on top of another pallet, the surface between both pallets needs to be flat and rigid to avoid pressure points on the top layer.

Attention! The total stacking load on the bottom container of a stack shall never exceed the maximum load indicated on page 07.

When positioning the ROPAC® Pails on a pallet it is important to turn the handgrips away from the pallet corners to avoid damaging the shrink-wrap or the stretch foil.

4. Packing

We recommend the use of a pallet shrink covers which needs to be shrunk around the pallet as well. Additionally, the bottom of the pallet needs to be stretched with Pallet-wrap as well.

The containers at the base of a stack will carry most of the load and to avoid a collapse they cannot be deformed by overstretching the foil or over-heating the wrap.

5. Pallet handling

From a safety point of view Schoeller Allibert recommends the transport of one pallet at a time. In order not to disturb the stack the fork of the lift truck needs to be kept almost horizontal.

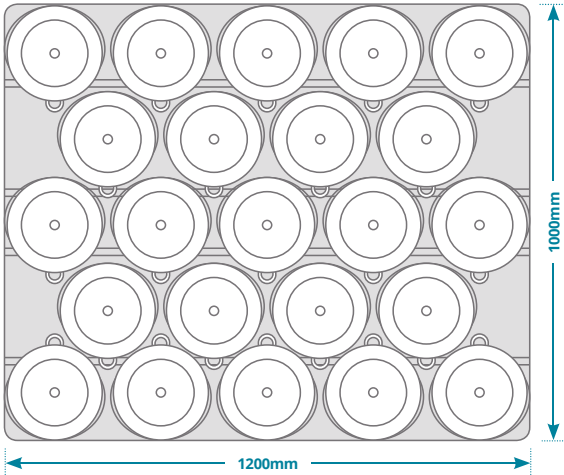


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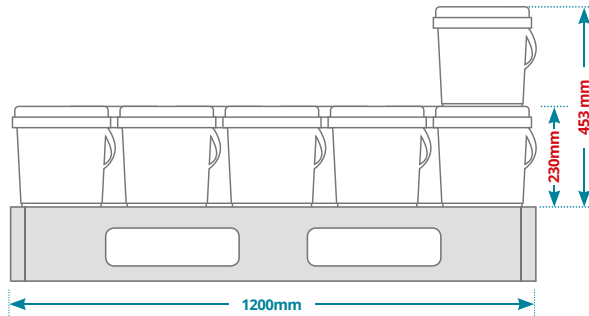


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Ropac® LIQ 5 range

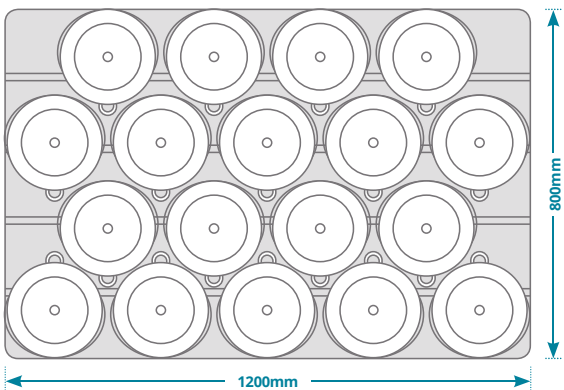


PLAN ELEVATION

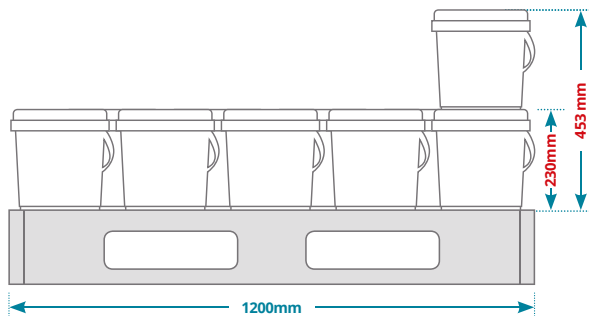


SIDE ELEVATION

Pallet: 100cm x 120cm

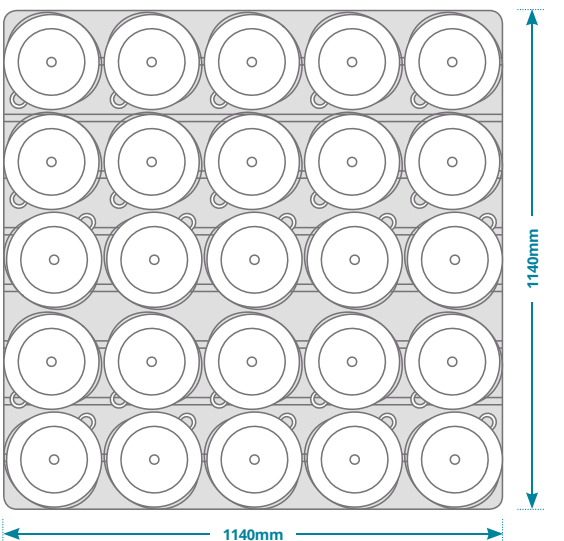


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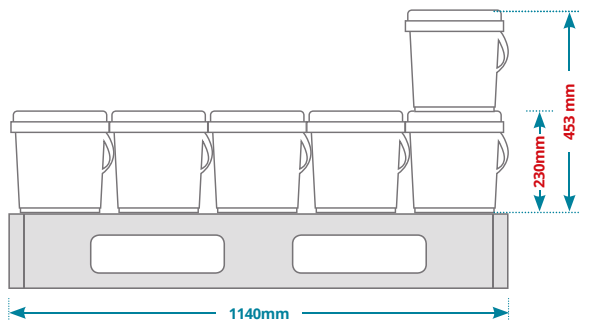


SIDE ELEVATION

Europallet: 80cm x 120cm



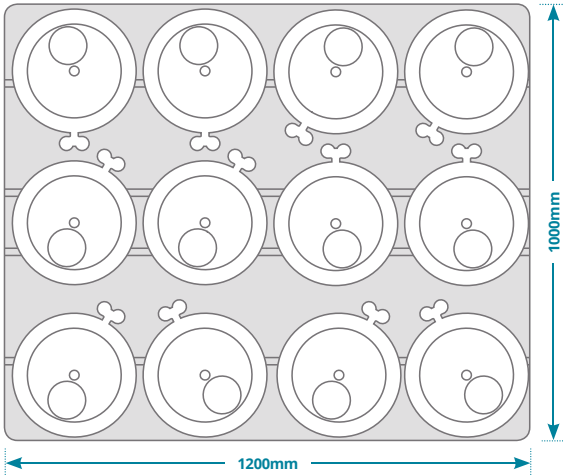
PLAN ELEVATION



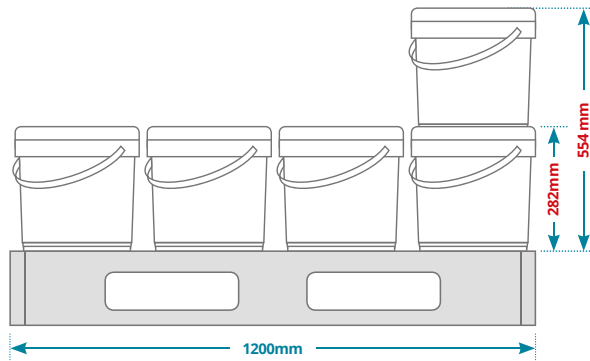
SIDE ELEVATION

Pallet: 114cm x 114cm

Ropac® LIQ 10 range

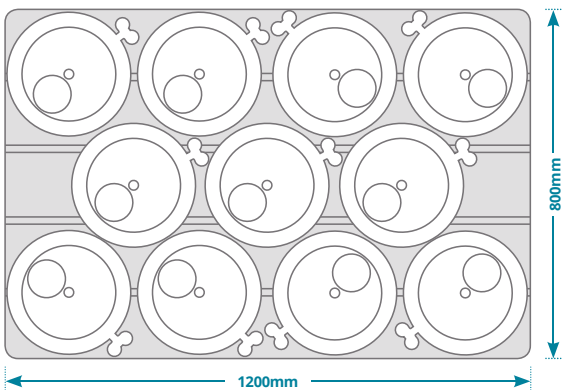


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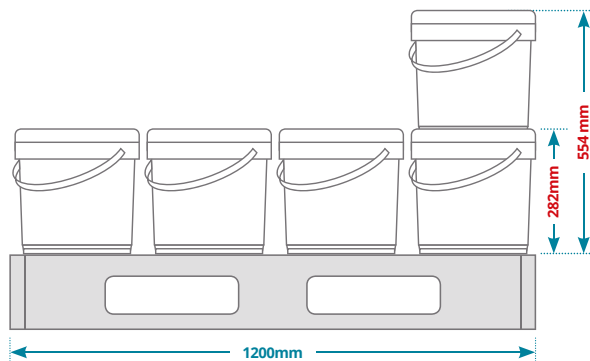


SIDE ELEVATION

Pallet: 100cm x 120cm

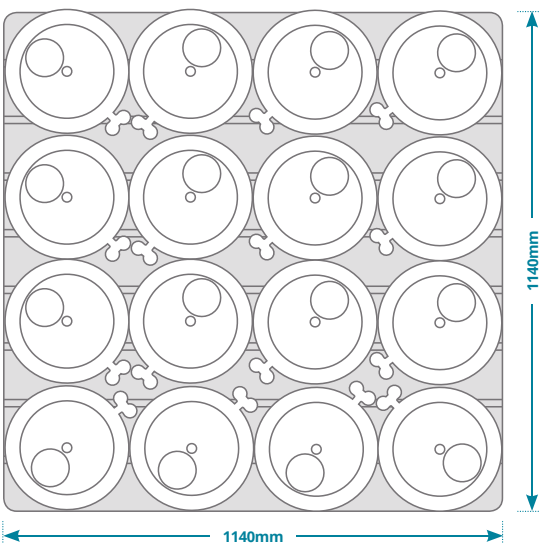


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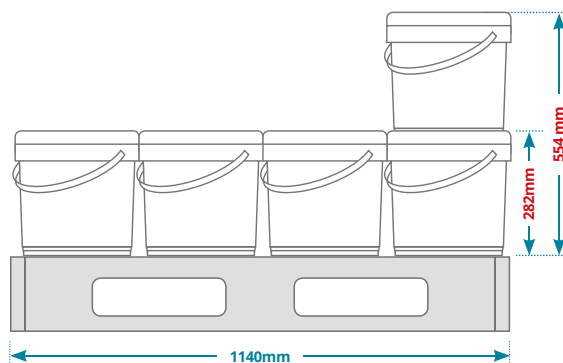


SIDE ELEVATION

Europallet: 80cm x 120cm



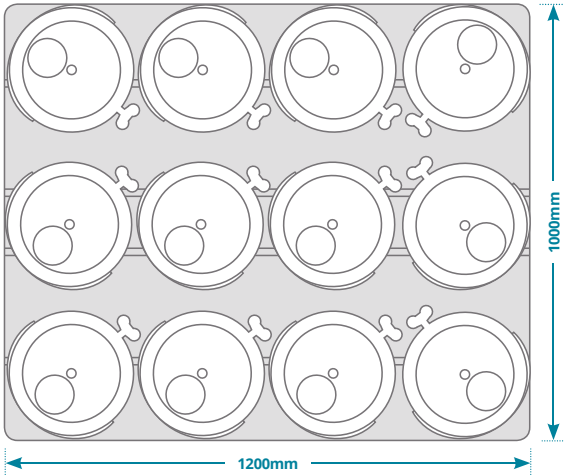
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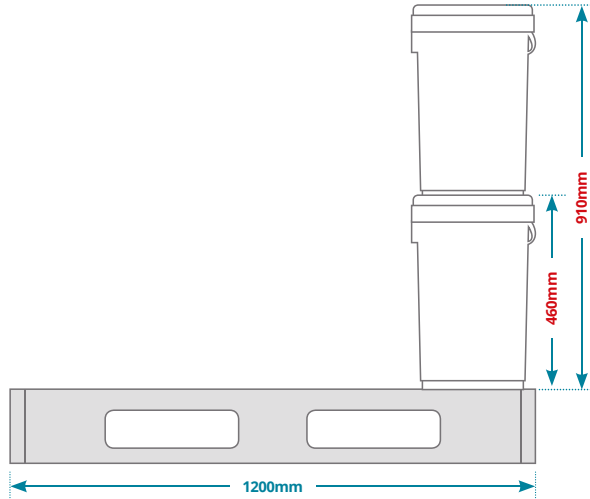
SIDE ELEVATION

Pallet: 114cm x 114cm

Ropac® LIQ 20 range

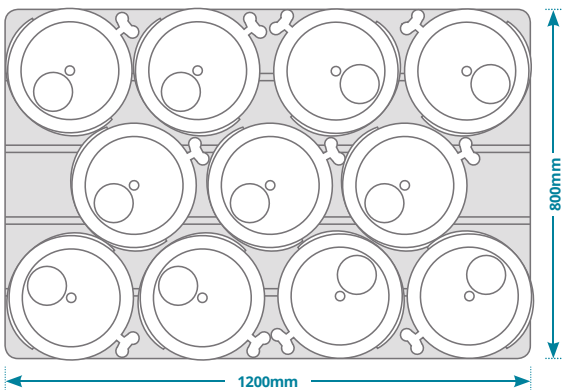


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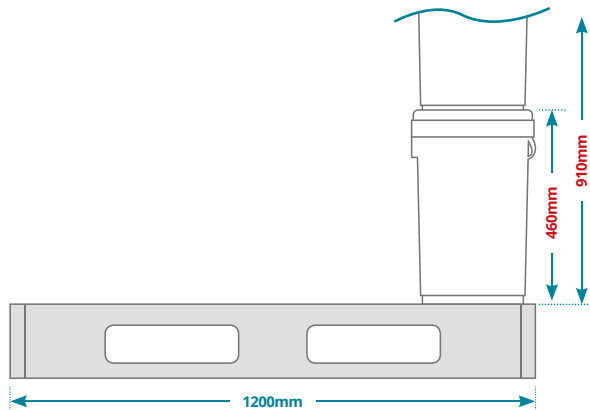


SIDE ELEVATION

Pallet: 100cm x 120cm

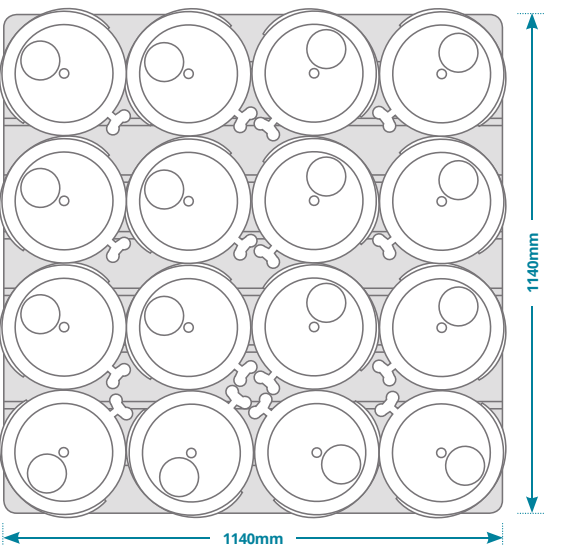


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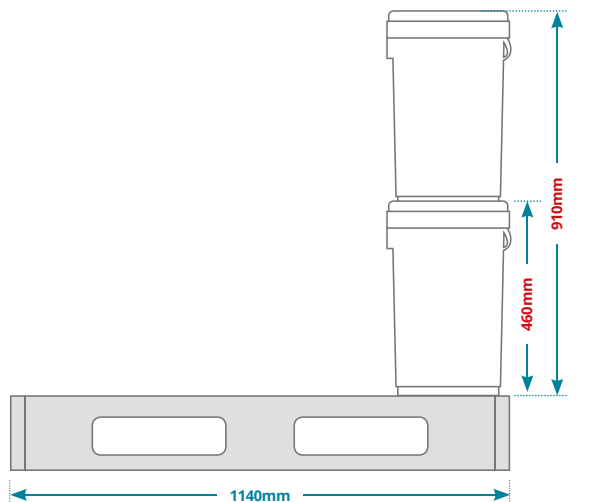


SIDE ELEVATION

Europallet: 80cm x 120cm



PLAN ELEVATION



SIDE ELEVATION

Pallet: 114cm x 114cm

Contact ROPAC®

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