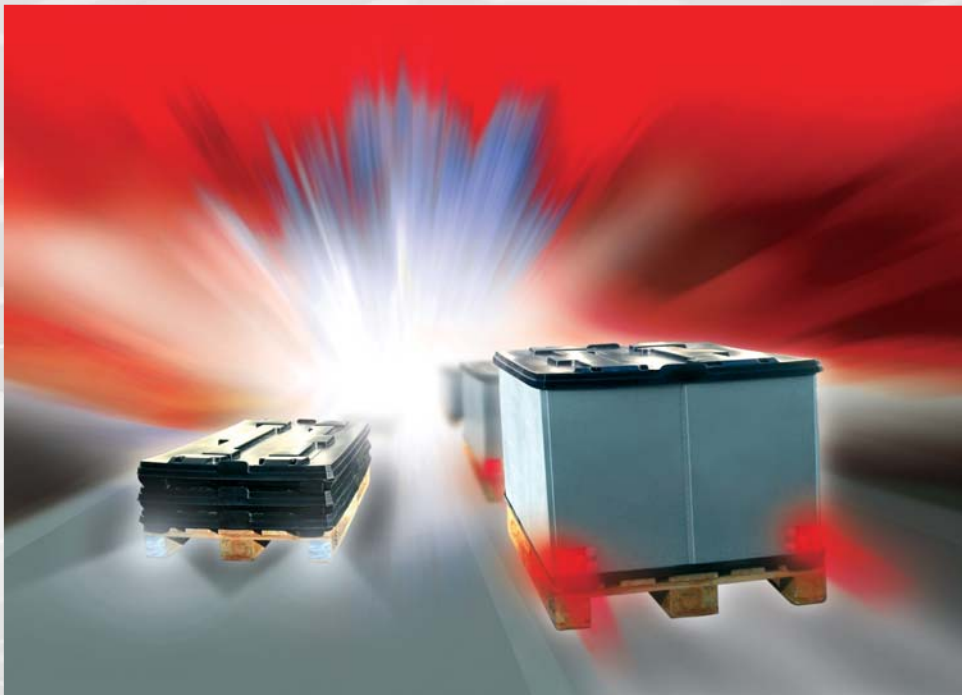


# Cost saving collapsible container systems



Collapsible container systems from DUROtherm combine all the important features of existing collapsible container systems but go beyond these as well: they are cost-effective with regard to procurement, extremely stable and light, and facilitate even more efficient volume reduction.



## Cost saving collapsible container systems

### Collapsible container systems product line:

There is a collapsible container system ideally suited to every purpose. Of course containers can also be specially designed to meet specific customer requirements.

The product line is always growing. We would be pleased to send you information about new developments.

DUROPAC collapsible containers for Euro pallets or H1 pallets



LARAPAC collapsible containers with integrated single sheet pallet



ROBUPAC collapsible containers with integrated twin sheet pallet



SOLOPAC pallet collars for all standard pallets



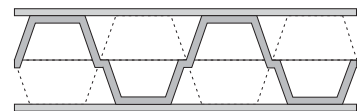
### Safe shipping, high cost savings

Collapsible container systems by DUROtherm win over customers with their low cost and extreme stability at very low weight. They allow an ideal packing density and reliably protect shipped goods against damage. Because the container sleeve is collapsible, an extremely efficient volume reduction can be achieved when shipping empty or in storage.

Sturdy materials and construction make DUROtherm collapsible containers appropriate for a multitude of uses, help them to withstand high mechanical and thermal loads and make them suitable for rugged industrial use.

These collapsible container systems, designed intelligently to the smallest detail, unify important logistical factors: Reliable protection for the packed goods, combined with enormous space and cost savings.

#### Innovative container sleeve

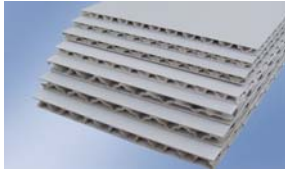


The sleeves are ultra light due to air-filled structural chambers, while extremely stable and resilient due to the middle layer that is knobbled on both sides.

#### Unique system advantages:

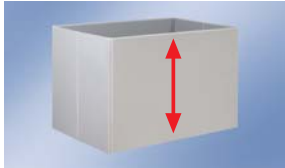
- ▶ Cost-effective procurement
- ▶ Reliable protection for shipped goods
- ▶ Extremely light weight
- ▶ High durability and load capacity
- ▶ Cost savings through efficient packing density and volume reduction when stored empty
- ▶ Optimal UV, moisture and rot resistance
- ▶ Meets the toughest hygiene standards
- ▶ Sleeve heights available as required
- ▶ Easy to use
- ▶ Easy cleaning and maintenance
- ▶ Long life and durability, cost savings based on high circulation
- ▶ Environmentally friendly and completely recyclable
- ▶ Customer specific designs

## Customer specific designs



### Sleeve thicknesses and weights

The plastic sleeve is available in different thicknesses and weights depending on the stability required and load capacity.



### Sleeve height

The height of the sleeve can be selected in order to achieve an optimal packing density.



### Sealed sleeve edges

For certain uses, e.g. special hygienic requirements, peripheral edge welding is available.



### Loading flap

For easy loading and unloading of goods, a loading flap can be built into the sleeve.



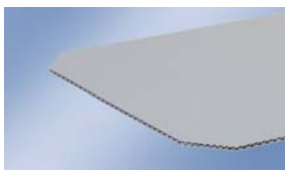
### Label pockets

Label pockets in various formats are available for marking and labelling containers.



### Printing

Any or all of the sides of the plastic sleeve can be custom printed.



### Bottom inserts / dividers

For applications that require a completely level bottom surface or the separation of goods, bottom inserts or dividers are available.



### Partitioning / moulded inserts

To safely pack goods, product-specific partitioning systems or moulded inserts can be developed.

## DUROtherm collapsible containers in use:



SOLOPAC with PET bottles (Recycling)



DUROPAC for Euro pallets during loading



LARAPAC folded for return shipping



DUROPAC for H1 pallets in a customer warehouse

## Easy to use

All of the DUROtherm collapsible container systems are designed for simple handling. They can be assembled, folded and stacked very easily without any great effort (DUROPAC container pictured):



Container, assembled



Removing the cover



Folding the sleeve



Placing the sleeve into the base



Replacing the cover



Stacking the folded containers

**Contacting  
DUROtherm® group:**

With its locations in Germany, Switzerland and the Czech Republic, DUROtherm is represented in the central European market as well as the market of the future – eastern Europe.

A wide variety of reusable packaging is available, custom designed for every shipping need. Whether a collapsible container, another shipping container from our standard line, or a customer-specific solution is required, we will help you decide on the best solution for your job.

We encourage you to contact us:



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## DUROPAC collapsible containers for Euro pallets

# DUROPAC®



### System Design

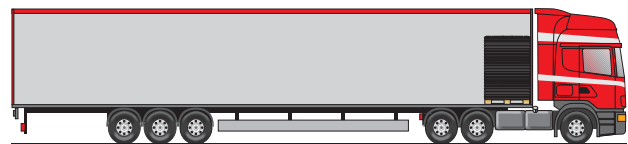
DUROPAC collapsible container systems for Euro pallets are multi-functional and especially well-suited for transporting heavy loads. They are very inexpensive to procure and are extraordinarily stable for their light weight. The containers can be locked into place on pallets and stacked without slippage due to the shape of the base and cover, which are designed around the Euro pallet system. When shipped or stored empty, the plastic sleeve is simply stowed between the base and the cover. The pallets, which are no longer necessary, are turned in to the exchange system. Sturdy materials and construction make DUROPAC collapsible containers appropriate for a multitude of uses, help them to withstand high mechanical and thermal loads and also make them suitable for rugged industrial use.

### System advantages:

- ▶ Cost-effective procurement
- ▶ Reliable protection for shipped goods
- ▶ Extremely light weight
- ▶ High durability and load capacity
- ▶ Cost savings based on efficient packing density
- ▶ Volume reduction when stacked empty; pallets re-enter the pool system
- ▶ Optimal UV, moisture and rot resistance
- ▶ High-bay storage and roller conveyor compatible
- ▶ Long life and durability, high circulation



Transport to destination:  
64 fully loaded DUROPAC systems



Return transport:  
64 empty DUROPAC systems on 1.2 loading meters

### Designs

DUROPAC systems are constructed of plastic and consist of a bottom, a cover and a folding sleeve. In order to meet every need, DUROPAC containers are also available in customer specific designs. The sleeve can be ordered in different thicknesses and weights, variable heights, edges that are sealed along the periphery, with loading flaps, with label pockets, custom printing, bottom inserts / dividers, partitions or inserts.

Get detailed information about the DUROPAC system and other DUROtherm collapsible container systems in the brochure "Cost saving collapsible container systems" or in the Internet: [www.durotherm.de](http://www.durotherm.de)

**Technical data (standard design)**

**Properties**

Property	Description	
Material	Base and cover: Sleeve:	Polycarbonate Polypropylene structured-core panel, approx. 10 mm thick
Colour	Base and cover: Sleeve:	Black Grey (similar to RAL 7001)
Tare weight	Without Euro pallet: With Euro pallet:	approx. 15 kg approx. 40 kg
Net load capacity / stackability		500 kg / 3 x
Volume reduction		approx. 80% when stacked empty

**Compatible pallets**

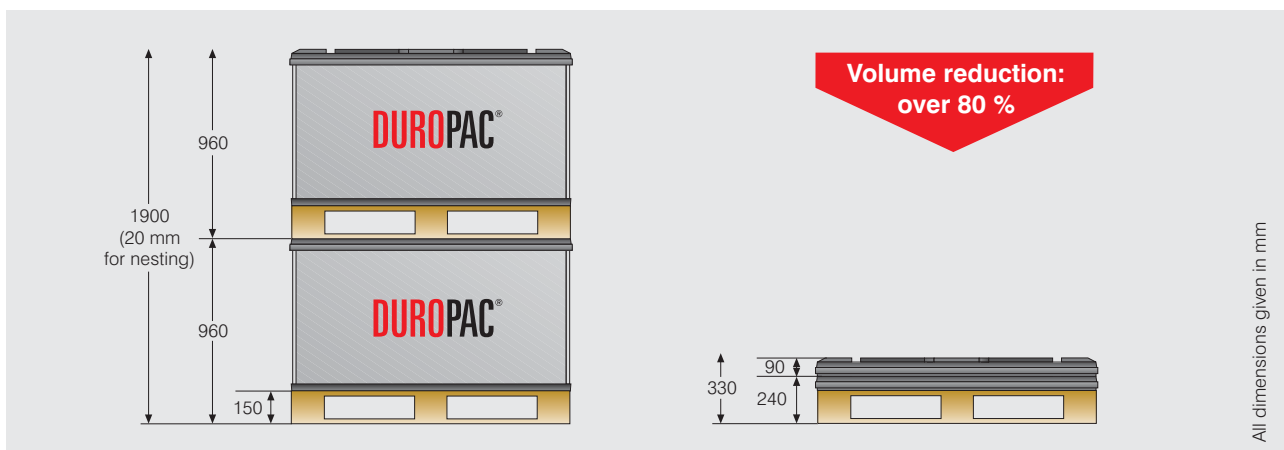
Pallet system*	Description
Euro pallet	EPAL standard, 1200 x 800 mm
Other pallet systems and dimensions	DUROPAC collapsible containers are also available for H1 pallets. Customer-specific pallet types and dimensions available on request.

\* Pallets not included

**Dimensions**

Dimensions when assembled				Dimensions when collapsed			
	Length	Width	Height		Length	Width	Height
Outer dimensions (including pallet)	1220 mm	820 mm	960 mm	Outer dimensions (Pallet + 1 unit)	1220 mm	820 mm	240 mm
Inner dimensions (cargo space)	1170 mm	770 mm	790 mm				each additional unit: + 90 mm height

Standard loading flap sizes: 600 x 310/350 mm, 800 x 350/380 mm, 950 x 310/350/380 mm. Other sizes available on request.



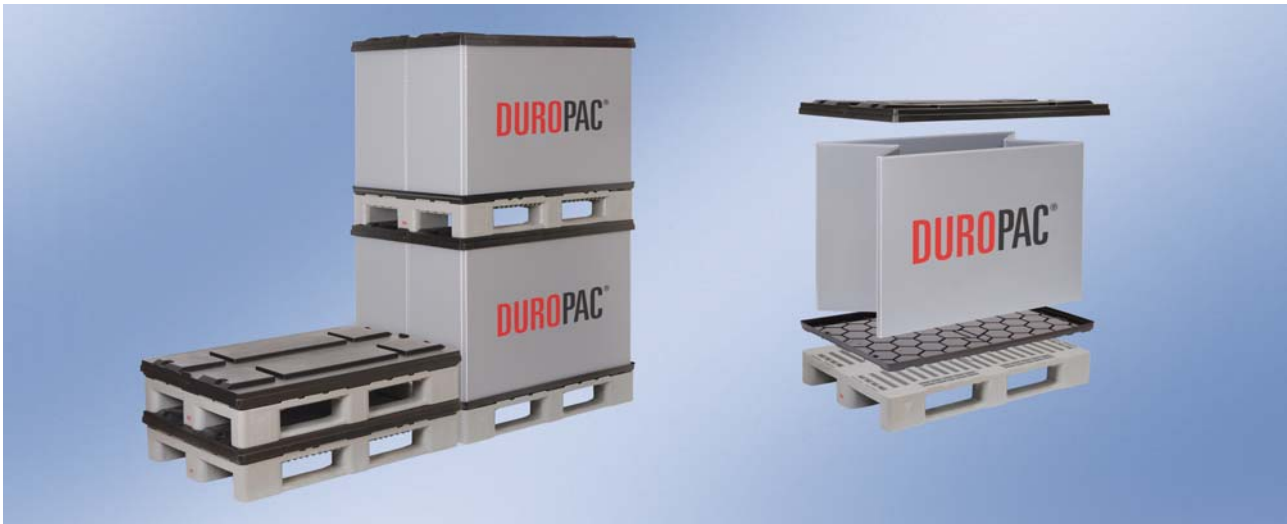
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## DUROPAC collapsible containers for H1 hygienic pallets

DUROPAC®



## System Design

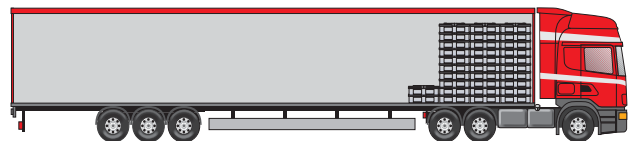
DUROPAC collapsible container systems for H1 pallets were specially designed for the food industry and are also especially well-suited for transporting heavy loads. They are very inexpensive to procure and are extraordinarily stable for their light weight. The containers can be locked into place on pallets and stacked without slippage due to the shape of the base and cover, which are designed around the H1 pallet system. When shipped or stored empty, the plastic sleeve is simply stowed between the base and the cover. Sturdy materials and construction make DUROPAC collapsible containers appropriate for a multitude of uses, help them to withstand high mechanical and thermal loads and make them suitable for rugged industrial use.

## System advantages:

- ▶ Cost-effective procurement
- ▶ Reliable protection for shipped goods
- ▶ Extremely light weight
- ▶ High durability and load capacity
- ▶ Cost savings through efficient packing density and volume reduction when stored empty
- ▶ Optimal UV, moisture and rot resistance
- ▶ Meets the toughest hygiene standards
- ▶ Easy to clean (safe for automatic washer systems)
- ▶ High bay storage and roller conveyor compatible
- ▶ Long life and durability, high circulation



Transport to destination:  
64 fully loaded DUROPAC systems



Return shipping:  
64 empty DUROPAC systems on approx. 3.2 loading meters

## Designs

DUROPAC systems are constructed of plastic and consist of a bottom, a cover and a folding sleeve. In order to meet every need, DUROPAC containers are also available in customer specific designs. The sleeve can be ordered in different thicknesses and weights, variable heights, edges that are sealed along the periphery, with loading flaps, with label pockets, custom printing, bottom inserts / dividers, partitions or inserts.

Get detailed information about the DUROPAC system and other DUROtherm collapsible container systems in the brochure "Cost saving collapsible container systems" or in the Internet: [www.durotherm.de](http://www.durotherm.de)

**Technical data (standard design)**

**Properties**

Property	Description	
Material	Base and cover: Sleeve:	Polycarbonate Polypropylene structured-core panel, approx. 10 mm thick
Colour	Base and cover: Sleeve:	Black Grey (similar to RAL 7001)
Tare weight	Without H1 pallet: With H1 pallet:	approx. 15 kg approx. 40 kg
Net load capacity / stackability		500 kg / 3 x
Volume reduction		approx. 75% when stacked empty

**Compatible pallets**

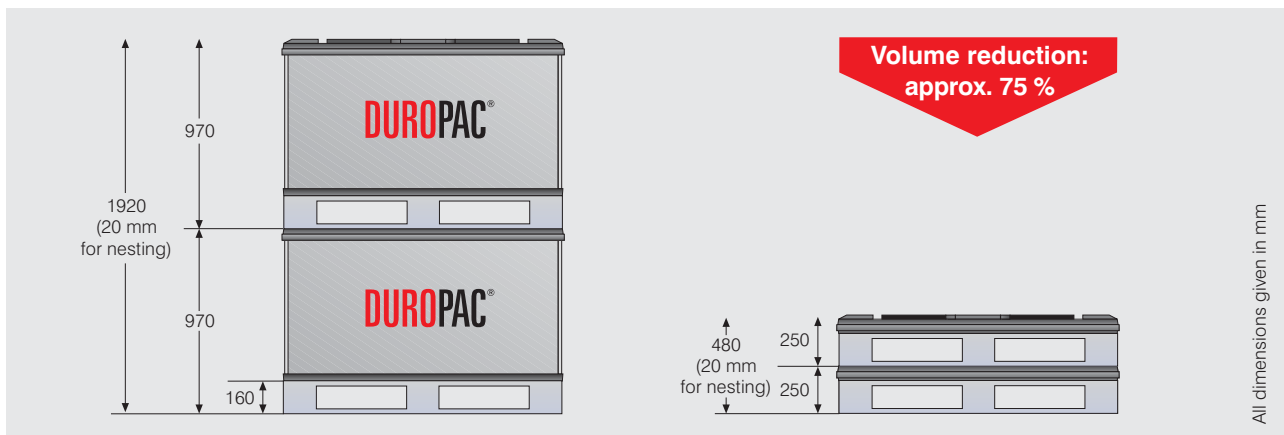
Pallet system*	Description
H1 pallet:	All common H1 pallets (1200 x 800 mm) with an open upper deck, with or without raised retaining edges and/or stacking guides.
Other pallet systems and dimensions	DUROPAC collapsible containers are also available for Euro pallets. Customer-specific pallet types and dimensions available on request.

\* Pallets not included

**Dimensions**

	Dimensions when assembled			Dimensions when collapsed			
	Length	Width	Height	Length	Width	Height	
Outer dimensions (including pallet)	1220 mm	820 mm	970 mm	Outer dimensions (Pallet + 1 unit)	1220 mm	820 mm	250 mm
Inner dimensions (cargo space)	1170 mm	770 mm	790 mm				

Standard loading flap sizes: 600 x 310/350 mm, 800 x 350/380 mm, 950 x 310/350/380 mm. Other sizes available on request.



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LARAPAC collapsible containers with integrated single sheet pallet



**System Design**

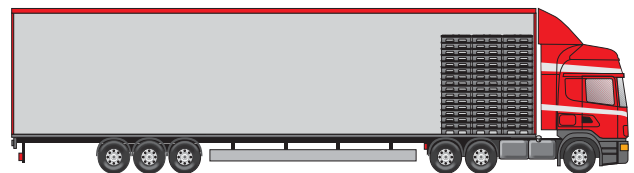
LARAPAC collapsible container systems are especially well-suited for shipping light weight goods. They are very inexpensive to procure and are very stable for their light weight. They also allow an ideal packing density and reliably protect shipped goods against damage. When shipped or stored empty, the plastic sleeve is simply stowed between the base and the cover. This results in an efficient volume reduction of up to 80%. Sturdy materials and construction make LARAPAC collapsible containers appropriate for a multitude of uses, help them to withstand high mechanical and thermal loads and make them suitable for rugged industrial use.

**System advantages:**

- ▶ Cost-effective procurement
- ▶ Reliable protection for shipped goods
- ▶ Extremely light weight
- ▶ Cost savings through efficient packing density and volume reduction when stored empty
- ▶ Optimal UV, moisture and rot resistance
- ▶ Meets the toughest hygiene standards
- ▶ Easy to use
- ▶ Long life and durability
- ▶ Cost savings based on high circulation



Transport to destination (mega trailer / jumbo):  
96 fully-loaded LARAPAC systems (1200 x 800)



Return transport (mega trailer / jumbo):  
96 empty LARAPAC systems filling only 2.5 m of trailer length

**Designs**

LARAPAC systems are constructed of plastic and consist of a bottom with an integrated pallet, a cover and a folding sleeve. In order to meet every need, LARAPAC containers are also available in customer specific designs. The sleeve can be ordered in different thicknesses and weights, variable heights, edges that are sealed along the periphery, with loading flaps, with label pockets, custom printing, bottom inserts / dividers, partitions or inserts.

Get detailed information about the LARAPAC system and other DUROtherm collapsible container systems in the brochure "Cost saving collapsible container systems" or in the Internet: [www.durotherm.de](http://www.durotherm.de)

## Technical data (standard design)

### Properties

Property	Description
Material	Base: Polyethylene HDPE Cover: Polycarbonate PC (1200 x 800) / HDPE (1200 x 1000) Sleeve: Polypropylene structured-core panel, approx. 10 mm thick
Colour	Base and cover: Black Sleeve: Grey (similar to RAL 7001)
Tare weight	approx. 19 kg (1200 x 800) / approx. 25 kg (1200 x 1000)
Net load capacity / stackability	200 kg / 3 x
Volume reduction	1:5 (1200 x 800) / 1:5,5 (1200 x 1000)

### Dimensions

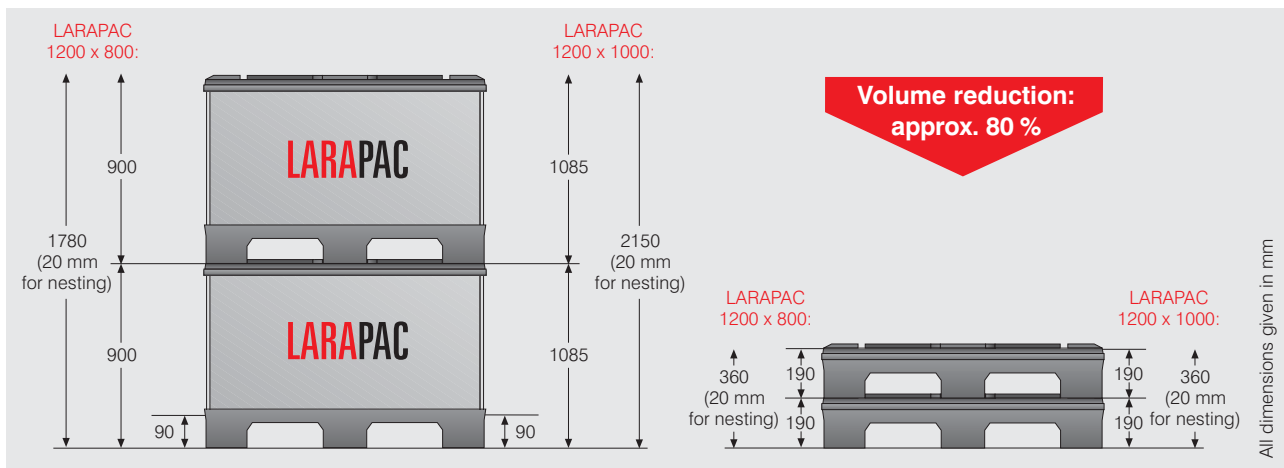
#### LARAPAC 1200 x 800

Dimensions when assembled				Dimensions when collapsed			
	Length	Width	Height		Length	Width	Height
Outer dimensions	1220 mm	820 mm	900 mm	Outer dimensions	1220 mm	820 mm	190 mm
Inner dimensions (cargo space)	1170 mm	770 mm	770 mm				

#### LARAPAC 1200 x 1000

Dimensions when assembled				Dimensions when collapsed			
	Length	Width	Height		Length	Width	Height
Outer dimensions	1225 mm	1020 mm	1085 mm	Outer dimensions	1225 mm	1020 mm	190 mm
Inner dimensions (cargo space)	1170 mm	975 mm	950 mm				

Standard loading flap sizes: 600 x 310/350 mm, 800 x 350/380 mm, 950 x 310/350/380 mm. Other sizes available on request.



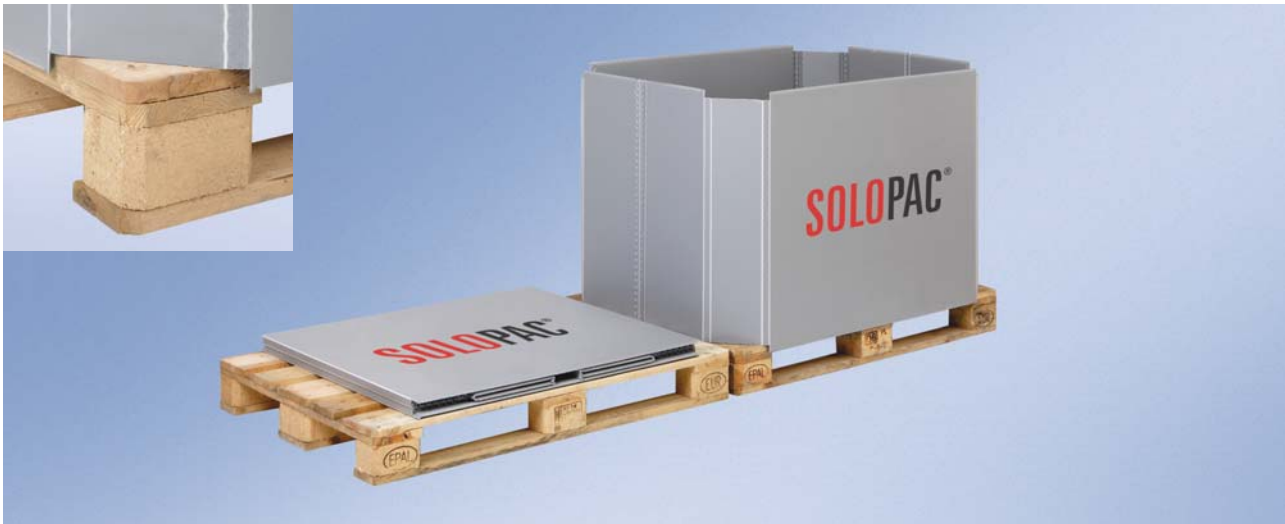
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## SOLOPAC pallet collars for all standard pallets

# SOLOPAC®



### System Design

The new SOLOPAC is a small wonder for collapsible containers. This very affordable plastic pallet collar fits all standard pallets and simultaneously performs two functions. As a container it is perfectly suited to light weight goods, such as empty PET bottles, drink or canned goods cans. Used as shipping protection, it efficiently protects goods loaded directly onto a pallet from damage. Thanks to intelligent corner construction, the self-aligning and non-skid SOLOPAC is easily placed over the pallet.



#### System advantages:

- ▶ Highly cost-effective procurement
- ▶ Extremely robust and stable
- ▶ Extremely light weight
- ▶ Compatible with all common pallets
- ▶ No modifications needed to existing pallets
- ▶ Custom heights
- ▶ Cost and space savings when transported empty
- ▶ Optimal UV, moisture and rot resistance
- ▶ Easy to use
- ▶ Environmentally friendly and completely recyclable

### Designs

SOLOPAC pallet collars are constructed of polypropylene structured-core panels. They are tailor-made for the desired pallet type in customer specified heights. In order to meet every need, SOLOPACs containers are also available in customer specific designs. The sleeve can be ordered in different thicknesses and weights, variable heights, edges that are sealed along the periphery (not along the edges of cut-outs), with gripping holes, label pockets, custom printing, bottom inserts / dividers, partitions or inserts.

Get detailed information about the SOLOPAC system and other DUROtherm collapsible container systems in the brochure "Cost saving collapsible container systems" or in the Internet: [www.durotherm.de](http://www.durotherm.de)

## Technical data (standard design)

### Properties

Property	Description
Material	Polypropylene structured-core panel, approx. 10 mm thick, 3000 g/m <sup>2</sup>
Colour	Grey (similar to RAL 7001)
Tare weight	approx. 9 kg
Volume reduction	approx. 90% when stacked empty

### Compatible pallets

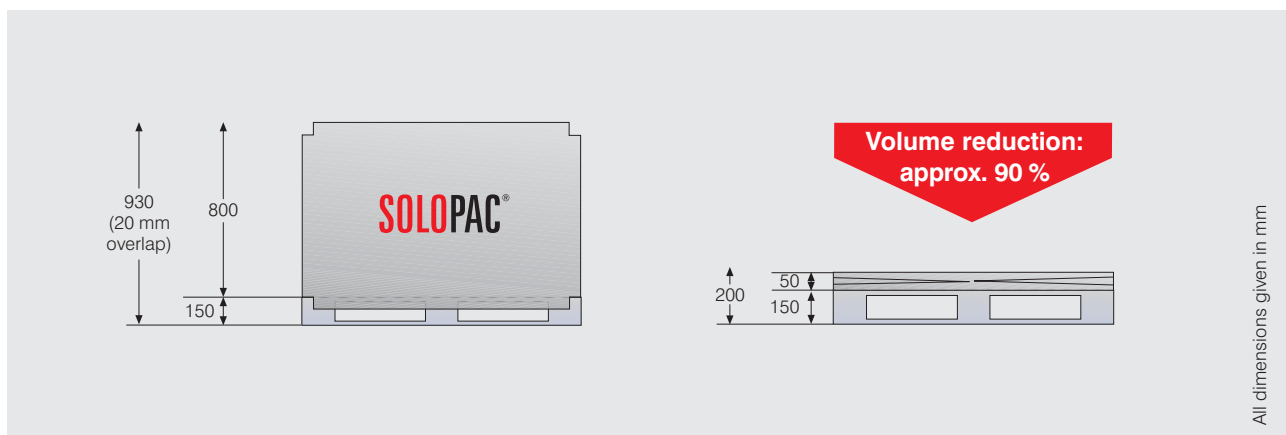
Pallet system*	Description
Pallet systems and dimensions	Numerous common pallet types and dimensions

\* Pallets not included

### Dimensions

(based on the Euro pallet 1200 x 800 mm)

Dimensions when assembled				Dimensions when collapsed			
	Length	Width	Height		Length	Width	Height
Outer dimensions (including pallet)	1222 mm	822 mm	800 mm	Outer dimensions	955 mm	800 mm	200 mm
Inner dimensions (cargo space)	1200 mm	800 mm	760 mm				each additional unit: + 50 mm height



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