

pacXPERT™

packaging technology by 

LOGISTICS CONSIDERATIONS



Logistics and Space Saving

One of the biggest benefits of PacXpert is that it can be collapsed when empty.

Simulation with a 41" x 51" x 93" pallet.

	1 Gal.	1,32 Gal.
Box Size	7"x18"x10"	7"x18"x10"
PacXperts/box	53	50
Boxes/pallet	90	90
PacXperts/Pallet	4770	4500
Pallets/40ft container	18	18
PacXperts/40ft container	85860	81000



An option is to produce Neckless PacXperts (blanks), ship those to another location where the neck is sealed (this improves logistic efficiency).

	1 Gal.	2,5 Ga.
PacXperts/box	330	165
Boxes/pallet	90	90
PacXpert/Pallet	29700	13860
Pallets/40ft container	18	18
PacXperts/40ft container	534600	249480

Logistics and Space Saving

2.5 Gal. PacXpert vs 2.5 Gal. Jugs (Pallet – 40" x 47" x 81.5")

Simulation with a 41" x 51" x 93" pallet.

	2,5 Gal. Jerry Can	2,5 Gal. PacXpert
Empty Packages/Pallet	204	3200
Packages/box	-	25
Pallets/delivery	24	24
Packages/delivery	4896	76800

1 Full truck of 2.5 Gal. Jugs = 1,53 PacXpert Pallets



Logistics and Space Saving

Logistics of PacXpert when its full is similar to that of rigid containers in boxes. Only difference is the space distribution of PacXpert vs incumbent container.

Example assuming a pallet of 39" x 47" x 71"

Format		1 Gal.	1,32 Gal.	2,5 Gal.	5 Gal.
Full PX Dimensions (mm)	Width	168,3	200	254	330,2
	Length	168,3	200	254	330,2
	Height	176,1	220	254	228,6
Box Configuration		2 x 3	2 x 2	2	1
Box Dimensions (mm)	Width	340	410	258,20	335,00
	Length	510	410	516,40	335,00
	Height	180	225	257,14	257,14
Levels / Pallet		10	8	7	7
PX/Level		42	24	20	9
PX/Pallet		420	192	140	63



Logistics and Space Saving

PacXpert can be palletized without boxes using a cardboard tray or a cardboard sheet with holes to match neck location.



15 LTR. BOTTLE

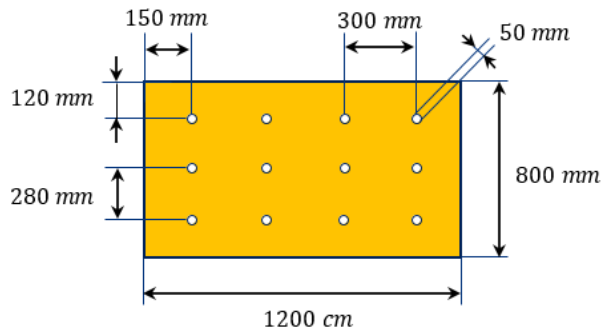
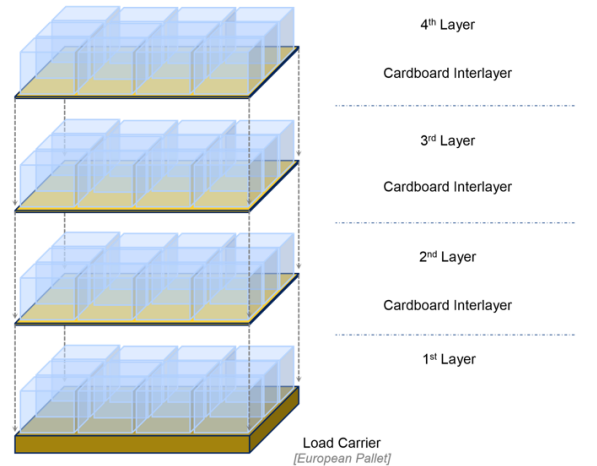


Figure 5: technical drawing cardboard interlayer



Figure 6: draft cardboard interlayer¹

Logistics and Space Saving

Pallet of 35lbs Oil Jugs in Boxes.

Cost of box = \$0.60/box

3 Levels on Pallet = 90 bottles (45 boxes) -> Total cost of boxes = \$27

4 Levels on Pallet = 120 bottles (60 boxes) -> Total cost of boxes = \$36

Pallet of PacXpert with no boxes (cardboard tray or sheet)

Cost of cardboard tray = \$1.10/unit / cost of cardboard sheet = \$0.70/unit

3 Levels on pallet = 24 2.5 Gallon PX/Level

- -> Total cardboard tray cost = \$4.4
- -> Total cardboard sheet cost = \$2.1

4 Levels on pallet = 24 2.5 Gallon PX/Level

- -> Total cardboard tray cost = \$5.5
- -> Total cardboard sheet cost = \$2.8

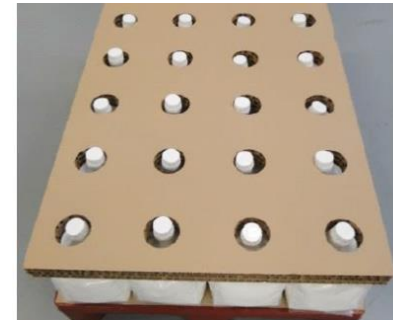
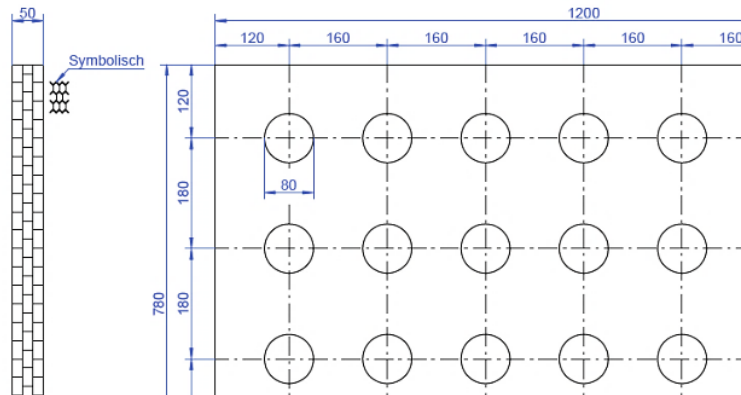
Important Savings on
Secondary Packaging can
be achieved Palletizing
without boxes



Logistics: filled bottles

BRAINYPACK 5 Liter DIN 40, filled with particulates (e.g. salt)

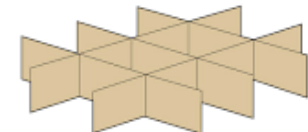
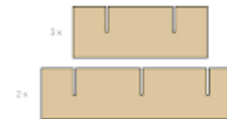
- Stacking recommendation with die-cut honeycom layer:
 - 1 layer: 24 x 5 Liter BRAINYPACKO DIN 40
 - 1 pallet: 5 layers
 - Pallet dimensions: L 1200 x W 800 x H 1300 mm
 - Total die-cut cartons per pallet: 5 pcs
 - Total BRAINYPACKO per pallet: 120 pcs
 - Total liters per pallet: 600 liters
 - Total weight: ca. 750kg



Logistics: filled bottles

BRAINYPACK 3 Liter DIN 40, filled with liquid (e.g. water)

- Stacking recommendation with cardboard partitions (FEFCO 0933) and cardboard layer (FEFCO 0110):
- 1 layer: 28 x 3 Liter BRAINYPACK DIN 40
- 1 pallet: 6 layers
- Pallet dimensions: L 1200 x W 800 x H 1400 mm
- Total partitions per pallet: 6 assembled sets (partition + layer)
- Total BRAINYPACKO per pallet: 168 pcs
- Total liters per pallet: 504 liters
- Total weight: ca. 560kg





Contact us!



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