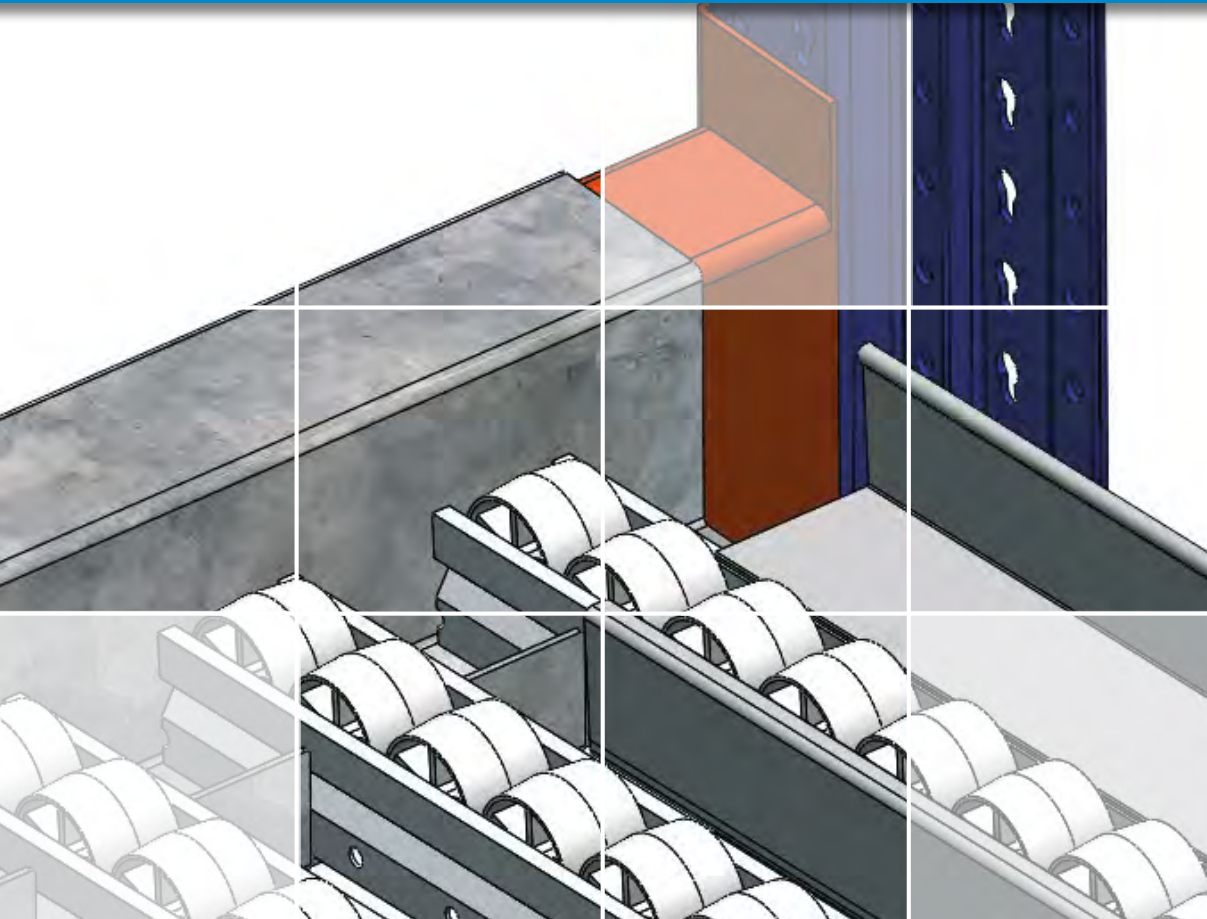


# DURAFLOW DF2





## The benefits of DF2 - carton flow rack

**DF2 Live Storage** has been designed to make basic carton flow as simple as possible.

Quick and simple to use system with just 2 basic components – roller tracks and beam adaptor profiles.



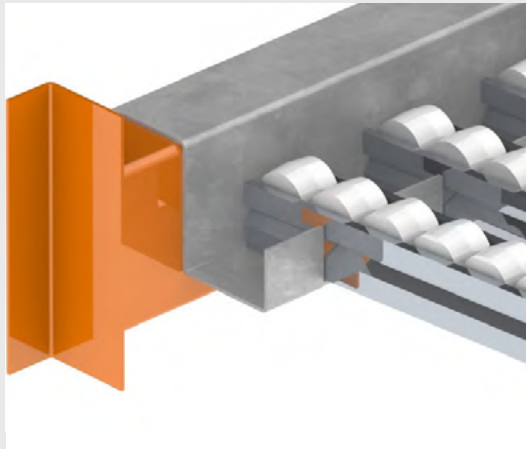
### BENEFITS

- No more nuts and bolts, clips, pins, caps or other fiddly components.
- Instead of taking an hour or more to assemble a conventional carton flow shelf, DF2 is installed in just a few minutes.
- Customer comment "It took longer to unwrap the components than to fit the shelf level!"
- Also, instead of the hassle of fitting and adjusting lane guides, DF2 gives you a complete bed of rollers – so any box can go anywhere - making product packaging or container changes simple to implement.
- Why purchase extra steel-work with a conventional carton flow shelf, when you already have racking beams capable of supporting the loads? All you need are roller tracks and adaptors.
- DF2 gets its strength from the choice of roller track. The greater the number of tracks across the bay width (track density), the higher the load capacity.
- Beefy GP40 tracks are best for converting typical double-sided pallet rack depths of 2m -2.5m.
- Single sided racks up to 1500mm deep or more can use GP35 tracks if loads per level are lower.

## DURAFLOW DF2

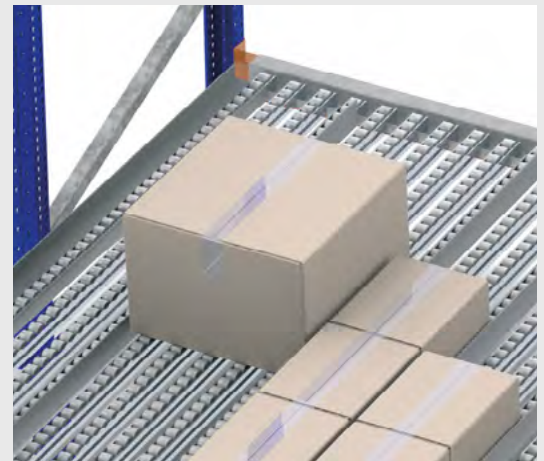
Our original DuraFlow live storage product, manufactured in the UK from 2006, has been replaced by a completely new design, DuraFlow DF2. This also meets many of the requirements previously applicable to use of the discontinued LS2 carton flow system.

DF2 converts most brands of Pallet Racks and Long-Span Shelving Systems into carton flowracks, whether double- or single-sided bays, using either our heavy duty GP40 or standard duty GP35 roller tracks and suitable adaptor components and profiles.



With a more dense pattern of wheels for improved rolling characteristics, and no lane reconfiguring required for changing carton/container sizes, DuraFlow DF2 has considerable advantages over the original LS2 and DuraFlow designs, and provides lane divider guide options not previously achievable.

FIFO (first in, first out) stock is automatically presented 'ready to pick' resulting in shorter picking routes and faster pick rates. The system can also be used for LIFO systems (last in, first out), for instance where the back of the racks are against a wall.



## VERSATILE

DF2 provides a densely packed bed of rollers for ultimate flexibility; different box sizes can be accommodated across the entire bed without the need to set up guides or re-position individual roller tracks. Standard DF2 GP40 series wheel density is approx 345 wheels per sq m., with each DF2 shelf level having roller tracks at 80mm centres across the bay width. The track centres can be varied down to 52mm for special requirements, further increasing wheel density for smaller packages. GP40 tracks have wheels at 36mm centres

When using GP35 roller tracks on 80mm centres, the wheel density is about 8% more due to the closer wheel pitch. GP35 can also be supplied at 46mm centres across bay width, giving 80% more wheel density per sq m than the basic 80mm centres. GP35 tracks have wheels at 33mm centres





## STRONG

DF2 is designed to give years of trouble free service, and roller track sections have steel axles with reinforced polypropylene rollers. The rollers are fitted to pre-galvanised steel profiles for strength and rigidity.



## SIMPLE / QUICK

**Simple:** DF2 roller track sections are supplied ready for immediate installation without tools.

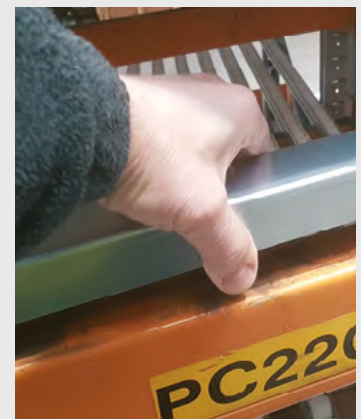
**Quick:** It is quick to install, just a few minutes per shelf level, and no tools required. With rack beams correctly installed for the desired gradient, position a pair of beam adaptors (on-load and off-load types) on the beams. Then the track sections are simply slotted into place. At the on-load end, roller track wheels will be flush with top of the beam. At the off-load end, the top of roller is 25mm below the beam top face to create an end-stop.

## BEAM ADAPTOR PROFILES / SUPPORTS

**Beam Adaptor Profiles** are manufactured from galvanised steel sheet to exactly fit the beam dimensions of your chosen rack type. The DF2 roller track sections then sit securely in recesses on an internal ledge formed into the adaptor. Adaptors provide a continuous smooth outer face to the beam for location labelling. The adaptors may be re-fitted onto any other beam of identical dimensions.

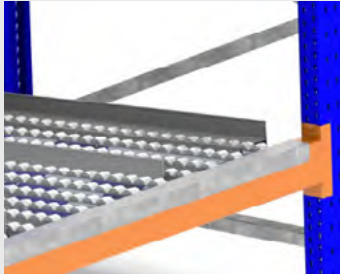
**Beam Supports** Generally only 2 beams are needed for each storage level for depths up to 2.5m, though heavier loads may also require a centre beam support.

The beams should ideally be rectangular in cross section, but adaptors can be made for certain other beam shapes, subject to detailed enquiry.



## ACCESSORIES

- Full length Lane Divider Guides, or Short Entry Guides. Height nom 20mm above wheels.
- Brake strips can also be fitted to roller tracks to slow cartons at the pick face.
- 30mm, 40mm and 50mm deep Label Holders for location and parts identity.



Lane Divider Guides



Guide & Brake Strips



Label Holders

## COMPLETE DF2 SYSTEM

If you don't have pallet rack or long-span shelving on which to mount the DF2 system, then Advanced Technical Concepts can provide a complete system with a custom-built framework for the specific application.

It could be that the depth or bay width makes your standard racking unsuitable, or you may wish to fit a conveyor in the pick face.

Advantages of the DF2 framework is the slim frame legs (60mm wide), vertical adjustment of cross beams in 12.5mm increments, and customisable dimensions.

Most pallet racks only offer 50mm or 75mm height adjustment, meaning DF2 can better be fine-tuned to achieve favourable pick level ergonomics.

Slim profile beams (45 x 60mm) also minimise height loss, and are reversible due to bolted connections to the frame. This enables beams to be fitted very low to the ground, and provides more versatile gradient adjustments (12.5mm vertically)

