

Optimising loading bays for retail productivity

The increasing pressure on the retail industry that's created by the rise of internet shopping means efficiencies have to be driven into every stage of the operational supply chain. Alan Ryder of loading bay specialists sara LBS believes that well designed loading bays will make goods handling more productive and help maintain the quality and appearance of the retail items.

Opportunities for gaining an edge over the competition are relatively limited in the retail sector. Discounts from wholesalers can be sought, but competitors are likely to get similar pricing levels; rent and rates are largely fixed; and staff salaries tend towards an industry norm. This means efficiencies have to be gained at an operational level, saving time and money in the distribution operation while ensuring minimum spoilage of goods in transit.

Suppliers to retailers need to make sure that their loading bays are designed to meet the specific needs of their operations. For instance, the big retail chains tend to use double decker trucks, so the loading bays need to be optimised to accommodate these.

Perhaps the most obvious requirement then is for a tall loading bay door, typically around 5m high. If the door is too low access will be restricted, but if it is too high thermal management and biosecurity will be compromised – major issues in food handling operations and an avoidable expense in all cases.

Loading bay doors can be of several types: sectional overhead, roller shutter, curtain etc. They can also be insulated to prevent heat exchange (loss of heat in most cases, but ingress of heat in chilled environments). In retail operations most loading bay doors will be power operated, which will increase efficiency. Typically they give higher speeds of opening and closing than can be achieved with manual opening, encouraging closing between operations for thermal efficiency. In warehouses where the goods in/out process is run to tight deadlines, this speed of operation can have a tangible impact on the bottom line. In addition, the operation of powered doors can be automated, so that they open automatically once the vehicle has reversed into position and closed again as it leaves.

Weather tight seals are generally required on all loading bay doors, and just about essential on larger doors (these also aid biosecurity and fire control). Safety features are highly recommended, including safety edges and scanners that arrest the motion of the door if personnel get too close. A simple but effective safety feature is a key safe on the door itself: the truck driver places his keys in the safe which then rises with the door until it is out of reach. This way the truck cannot be moved until the door is lowered, by which time loading bay personnel should have stepped well clear.

Other safety features that could be considered include vehicle restraints, interactive traffic lights and pedestrian barriers.

Beating the weather

It is highly recommended that the apron of the loading bay has effective weather containment measures in place. This could be a fixed canopy, with or without side walls. It is important to remember that the height of the canopy is set so that the bay can accommodate the largest trucks likely to be used, but if a canopy is overly high its effectiveness as weather protection will be compromised.

A popular option is a retractable canopy that will contact against the top and sides of the vehicle to form a physical seal to improve thermal management and biosecurity.

In the case of food products that are highly sensitive to temperature, the best solution may be an inflatable canopy that forms a very effective pressure seal. With these, the side and head curtains are inflated once the vehicle is in position, providing a good seal without putting any major loading on the building.

With operatives working hard it is essential that consideration is given to provision for Health & Safety. The basic principle should be to design out risks if at all possible, otherwise minimise them or contain them. In practise this may mean putting windows in the loading bay doors to improve visibility; providing separate personal access doors, interlocks and safety cut outs to prevent doors from operating if people are dangerously close; installing a secondary curtain door to stabilise temperatures, etc.

The next level

Sometimes it is necessary to think out of the box and take loading bay design to the next level. An example of this in the retail sector was when a sara LBS client expanded and acquired new warehousing to serve northern and Scottish retail outlets.

The location of the new warehousing could honestly be described as windswept and very exposed so that cold weather was blowing in through the loading bay doors when they were open. This made the loading bays unpleasant to work in and meant that heat was being lost and the goods risked being damaged.

sara LBS worked with the client to quickly evolve a practical solution to this almost intractable problem.

Essentially the weather issue was coupled with the need for high volume, high speed use to support the retail network and online orders, so sara LBS suggested fitting an internal dock loading pod in each bay. Normally these are installed onto the external face of a building; however, here the idea was to install the pods inside the warehouse and add a retractable shelter to the outside. This would seal against the delivery vehicle to provide a weatherproof working environment. The pods would act as 'rooms within rooms' so heating them would be far cheaper than heating the whole areas. The solution would also act as a barrier to the inclement exterior conditions.

The client liked the idea and worked with sara LBS to develop an arrangement that best suited its needs. The bays were upgraded two at a time so that normal operations could continue in the others and the improvements quickly proved popular with both operational staff and management.

Photo Captions:-



Pic 1:- A popular sara LBS option is a retractable canopy that will contact against the top and sides of the vehicle to form a physical seal to improve thermal management and biosecurity.

Pic 2:- The big retail chains tend to use double decker trucks, so the loading bays need to be optimised to accommodate these. A sara LBS tall loading bay door, is typically around 5m high.

Pic 3:- Often a two-door operation is a solution, a main door which is opened at the beginning of the working day and remains so until the end of the shift.

About sara LBS

sara Loading Bay Specialists supplies, installs and maintains loading bay systems, high speed doors and industrial doors. It has provided high quality product solutions and outstanding customer service since it was founded 30 years ago and this remains its sole focus.

Product Solutions

sara LBS's range of high quality products includes its complete loading bay packages (including scissor lifts, ramps and dock levellers), 'Sprint' range of rapid roll, high speed doors for internal and external use, insulated sectional overhead doors and roller shutter doors. It has extensive sector expertise and provides total packages that are tailored to meet all its customer's needs. Specialist sectors include food and beverage, pharmaceutical, automotive, manufacturing, logistics and distribution.

Maintenance & Repair

Sara LBS provides nationwide 24/7 service cover and rapid response times for all loading bay systems, dock shelters, high speed doors and industrial doors using its specialist engineers based across the country. It works with end users to extend the safe working lifetime of their doors and equipment by providing both preventative maintenance packages and standard and emergency repairs.

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Editor Contact

DMA Europa Ltd. : David Bedford

Tel: +44 (0)1562 751436

Fax: +44 (0)1562 748315

Web: www.dmaeuropa.com

Email: david@dmaeuropa.com

Company Contact

sara Loading Bay Specialists Ltd : Louise Nurse

Tel: +44 (0)1442 245577

Fax: +44 (0)1442 217117

Web: www.saralbs.co.uk

Email: info@saralbs.co.uk