Guidelines and Typologies

# Business types

**Open sales**  $\rightarrow$  **1**: unrestricted entrance and exit (specialised shops and retail chains, department stores).

Closed sales  $\rightarrow$  2: unrestricted entrance, exit only through staffed checkout (specialised supermarkets).

### Sales types and typologies

Specialised shops  $\rightarrow$  **3**: small shops (50–500m²), mostly only one sector (pharmacy, shoe shop, flower shop), service and consultation  $\rightarrow$  **6**.

**Specialised retail chains**  $\rightarrow$  **3**: chain stores, mostly only one sector, presented like specialised shops (jeweller, fashion, shoe shop), open sales  $\rightarrow$  **1**.

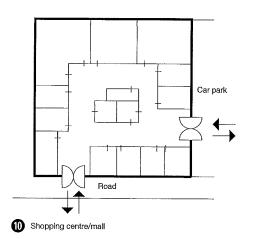
Specialised supermarkets  $\rightarrow$  **(**): chain stores, small to very large businesses, one or more branches, self-service (pharmacy/drugstore, toys, DIY, electrical goods, groceries, supermarket), closed sales  $\rightarrow$  **(2)**.

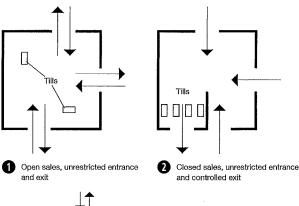
**Department stores**  $\rightarrow$  **6**: often chain stores, very large shops, mostly multi-storey, various sectors, sections can be rented to other chains (shop-in-shop principle), open sales  $\rightarrow$  **1**.

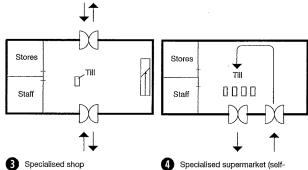
Shopping arcades, shopping centres/malls  $\rightarrow$  ① ①: concentration and conglomeration of specialised shops, supermarkets and department stores, on one or more floors, with additional cafés, bars, restaurants.

A shopping arcade → ● is from 10,000 m² in area, usually approx. 20,000–25,000 m² in area, roofed, mostly a 2–3 storey street space with multi-level access, exploiting urban block zones, external access (min. two) via squares, streets or shopping areas, semi-public access routes; no fixed opening times. Smaller shops are often along the internal street, with well-known large-area chains mostly in the corners or at the end of a street as a 'magnet'. Internal streets often lead into squares or courtyards.

A shopping centre/mall  $\rightarrow \bigoplus$  is a larger and more elaborate collection of retail outlets, eating places etc. It has fixed opening times, therefore no semi-public access routes; main external access normally from only one road, but additional side access from a car park or multi-storey car park is possible.





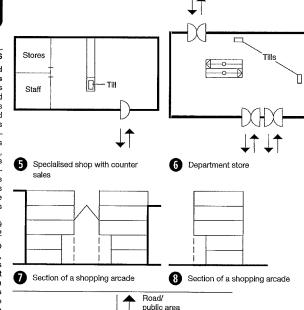


service)

Retail

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DIN 4102
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min

Adjacent building



Adjacent building

public area

Plan of a shopping arcade

Retail Regulations

The provisions of the retail regulations apply to retail outlets whose sales area and shop passages, including building elements, have a total area of  $>2,000 \text{ m}^2$ .

### Sales areas

Those in which goods for sale or other services are offered (except for emergency staircases, staircase extensions and garages. Shop passages do not count as sales areas.

### Shop passages

These are roofed or covered routes adjacent to sales areas, which contain customer traffic. They must be at least 5 m wide.

### Layout of sales areas

Sales areas, except for catering establishments, may not have a floor level >22 m above ground level, or >5 m below ground level  $\rightarrow \Phi$ .

### Fire compartments

Sales outlets are to be divided into fire compartments with partitioning walls built like fire walls  $\rightarrow$  **2** – **3**.

The permissible areas of fire compartments on each floor are:

	with sprinkler system	without sprinkler system
ground floor sales outlets	10,000 m²	5,000 m²
other sales outlets	5,000 m <sup>2</sup>	1,500 m <sup>2*</sup>

if the sales areas extend over more than three floors and the total area of all floors within a fire compartment is not more than 3,000 m<sup>2</sup>

### **Emergency stairways**

Emergency stairways for customers must be at least 2.0 m wide and may not exceed a width of 2.5 m. A width of 1.25 m is adequate if the stairway is provided for sales areas <500 m<sup>2</sup> in total  $\rightarrow$  **①**.

### Exits

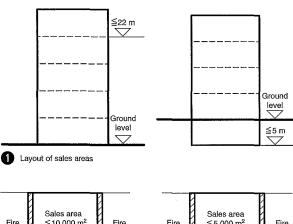
Every sales area, occupied room and shop passage must have a min. 2 exits leading to the open air or into an emergency stairway. One exit is sufficient for sales areas <100 m² in total  $\rightarrow$  **5**. Exits from a floor of a sales outlet into the open air or into an emergency stairway must have a width of 30 cm per 100 m² of sales area, and be min. 2 m wide, but for exits from sales areas <500 m², a width of 1 m is sufficient  $\rightarrow$  **6**. An exit leading into a corridor may not be wider than the corridor, and an exit leading into an emergency stairway may not be wider than the stairway.

### **Escape routes**

For every sales area, occupied area and shop passage, min. two escape routes must be provided on the same floor, if possible going in opposite directions, leading to exits into the open air or to an emergency stairway. These must be accessible within a distance of 25 m from every point of a sales area (or 35 m for other areas or shop passages). The doors must open in the direction of escape and be without thresholds. A main entrance or a shop passage must be provided within 10 m (linear distance) of every point in a sales area.

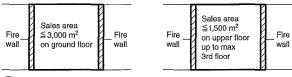
### **Emergency corridors**

For customers these must be at least 2 m wide. A width of 1.40 m is sufficient if corridors are intended for sales areas <500 m²  $\rightarrow$  **?**.

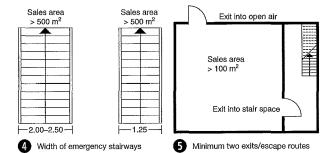


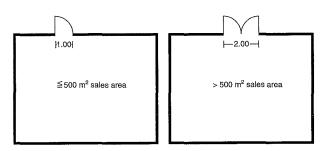


2 Size of fire compartments with sprinkler system

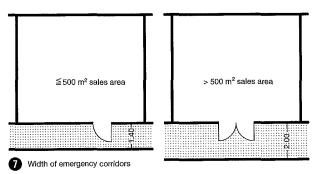


3 Size of fire compartments without sprinkler system





6 Width of exits, depending on size of sales areas

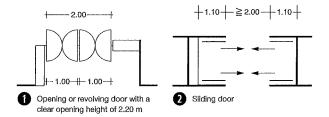


Retail

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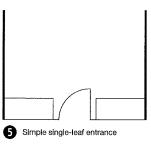
Guidelines and typologies Retail regulations Entrances and shop windows Checkout and waiting zones Waiting zones examples Routeing, escalators Furnishing – dimensions Food shops Self-service shops

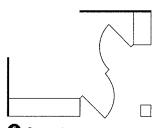
Entrances and Shop Windows



Revolving doors with side doors







6 Corner entrance

### **Entrances**

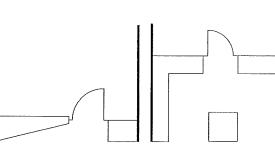
With entrances to sales outlets <2000 m2 the door widths can be >1.00 m; to those >2000 m<sup>2</sup> they must be disability-friendly and have automatic doors. According to the retail regulations, the clear opening width must be >2.00 m, and the clear height >2.20 m  $\rightarrow$  **2**.

### Shop windows

These serve, outside the shop, to present the goods on sale, to wake the interest of customers and to present an invitation to purchase  $\rightarrow \mathbf{0} - \mathbf{0}$ ,  $\mathbf{5} - \mathbf{0}$ . The design of shop windows depends on the particular goods being sold and should complement the layout, form and size of the entrance. The two basic types are windows with display area  $\rightarrow$   $\mathbf{0}$  and windows with a view of the shop  $\rightarrow \mathbf{0}$ .

Shop windows with display area: separation of the displayed goods and the sales area, mostly in department stores and specialised retail chains.

Shop windows with a view of the shop: view through the window into the sales area, mostly for specialised shops (e.g. baker, butcher...)



7 Funnel-shaped entrance

Retail

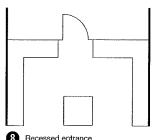
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shop windows waiting zones Waiting zones - examples

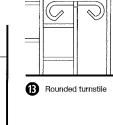
Routeing,

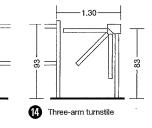
Furnishing -

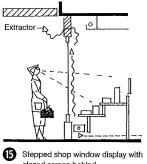
dimensions Food shops Self-service shops



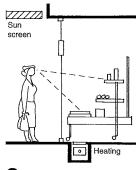
Recessed entrance



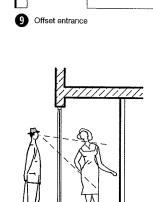




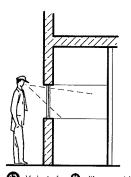
glazed screen behind



16 Mobile shop window display unit with screen behind

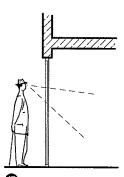


Shop window as display area

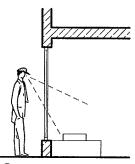


10 Small funnel-shaped entrance

Variant of  $\rightarrow$  10 with parapet (e.g. jeweller)



Shop window with view into shop



Variant of  $\rightarrow \mathbf{0}$  with parapet (e.g. book shop)

Checkout and Waiting Zones

### Types of checkout

checkout: single, area and central cash desks and rows of check-

### Row of checkouts

In specialised supermarkets (self-service area), these form the only exit from all shops with a closed sales area. The passing width between the checkouts should be sufficiently wide that shopping trolleys, pushchairs and wheelchairs can pass through, i.e. min. 1 m. Checkouts are mostly equipped with a conveyor belt (sometimes a before- and after-sale belt) and stationary scanner.

stores with open sales, depending on the functional organisation of the shop, cash desks can be arranged as single, by area, by floor or centrally. Department stores with different specialised sections have mostly area cash desks, specialised retail chains often have cash desks on each floor or grouped centrally, specialised small shops mostly have single cash desks.

# <u></u> ≥ 200 -\_ ≧ 200 — Shelves 350 100 140 Checkout ≥ 350 Packing zone Entry/Exit

### Retail

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140

Single cash desk, angled

9

200

9

+09

Island cash desk with large

220

- 100 + 60 -

60 + 100 + 60 +

130

Variant of 6

120-

0

packing area

- 09 -

N 220

0

130

supermarket

Checkout desk in self-service

9

- 170 --

- 110 -

Area or floor cash desk

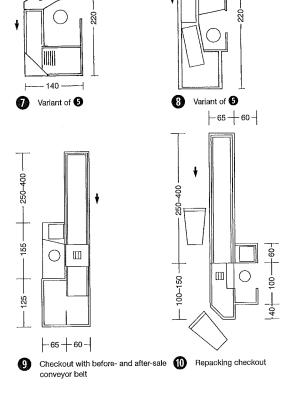
Single cash desk, straight

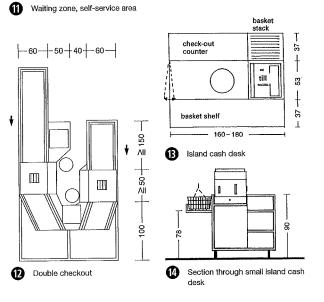
According to the product and shop type, there are various types of

Self-checkouts are also available as complete products.

## Single, area, floor and central cash desks

In specialised shops, specialised retail chains and department





Waiting Zones - Examples

Design: Maier und Pistor

While you wait: buying, with the emphasis on experience - consumption on the spot or take-away.

### Impulse buving

Addressing the senses, suggestive display, lifestyle, quality of life, convenience for employed people and homemakers. Prepared products, warm or to be warmed up = fast food. No self-service = free flow. Shop-in-shop. Multitude of ideas, concentration, smaller shops, high turnover. Matching designs from one designer. Storage for one day, deliveries typically every morning, fresh stock. Minimal sanitary facilities for standing customers. One WC for

### Range

confectioner glazed frontage

bakery ovens
 lockers
 staff area

(7) cold room

 washing-up 10 silo

(12) snacks

ø

**\rightarrow** 

20

16 flower store

(18) check-out area

cold room

(22) fish specialities

preparation bar/eating area

(19) pasta specialities

tobacconist, lottery

standing consumption

(17) bar

(21)

(3)

(21)

n standing consumption

(13) folding glass partition (14) plants and flowers

emergency exit

flower arrangement

**①** 

7

10

7

 $\Box$ 

3

00

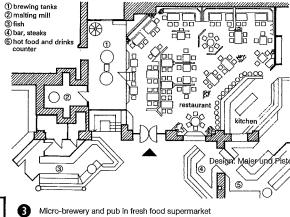
(@)

25)

Bakery – sales only 40-80 m<sup>2</sup>, + eat in shop 80-120 m<sup>2</sup>. Butcher's - sales only 40-80 m<sup>2</sup>, + eat in shop 80-120 m<sup>2</sup>. Café, pastries, ice cream parlour - sales only 40-80 m<sup>2</sup>, + eat in shop from 220 m<sup>2</sup>. Fish - sales 40-80 m<sup>2</sup>, + eat in shop 80-120 m<sup>2</sup>. Fresh food market, eat in shop as extension from 600 m2 in checkout waiting zone → 1: seafood, fruit, flowers, drinks, wine, champagne, delicatessen, up-market snacks.

### Additionally

Pizza, steaks, organic food, brewery bar etc.  $\rightarrow$  3

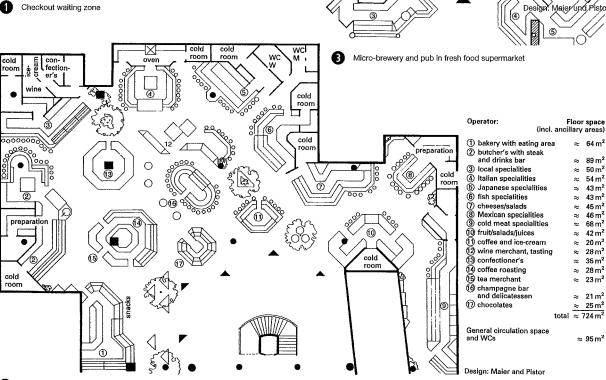


Retail

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Fresh food supermarket at Hamburg main station

Routeing, Escalators

Routes and escalators serve above all to highlight the promotion of goods and special offers. The larger the area of a retail outlet, the more important is the routeing concept. It can be put into practice through different means on the floor of the shop: lighting, fittings and positioning of the goods on offer. The location of the goods is determined by the intention to encourage customers to buy by displaying, as they pass by, shelves, stock and thus all the product ranges  $\rightarrow \mathbf{1} - \mathbf{2}$ .

The following variants are common for vertical escalator access in shops:

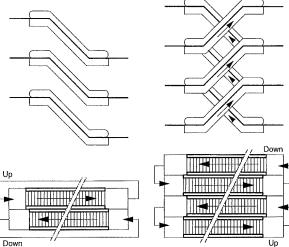
### Double criss-cross: $\rightarrow$ 7

The direction of travel of this escalator is 180°.

### Parallel layout: → 6

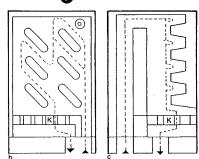
Escalators in the same direction lie above one another.

The rule of thumb is one escalator for every approx. 1000 m<sup>2</sup> of sales area.

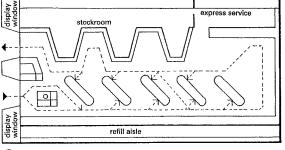


6 Single parallel escalators





Routes should include corner areas; separate entrance and exit in a and c, doubled in b. K = checkout

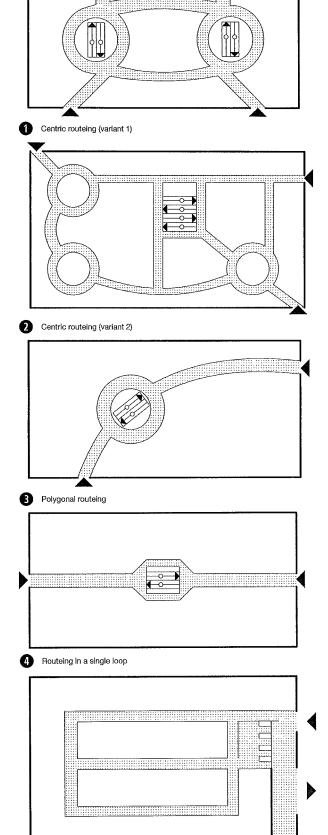


The shop should be clearly laid out for customers and control (checkout), so the customer is not forced to make diversions → ③ a

## Retail

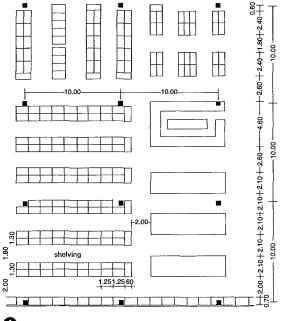
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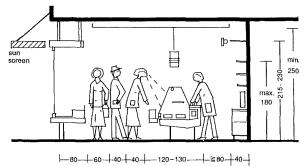


Routeing in a self-service supermarket

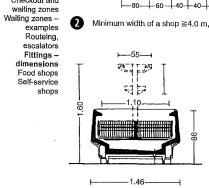
Fittings - Dimensions



Dimensions of the counters and shelves, column grid 10  $\times$  10 m

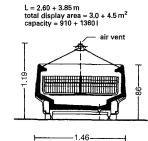


Minimum width of a shop ≧4.0 m, better 5.0 m

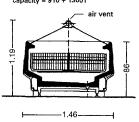


Refrigerated display case with upper shelves

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Refrigerated display case without upper shelves



-91-41-+31+30+30+30+29-

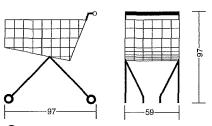
Refrigerated display cabinet



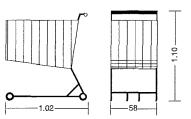
Wall shelves Wall shelves for for bottles fruit and vegetables (goods to restock)



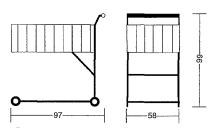
Wall with drawers, passage for restocking (sliding baskets are exchanged)



Small shopping trolley (e.g. drugstore)



10 Large shopping trolley (e.g. large supermarket chain)



1 Shopping trolley (e.g. DIY store)



Island shelf unit



Wall shelf unit

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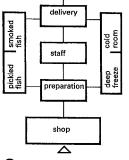
Fittings – dimensions

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6 Vertical refrigerated display case with upper shelves

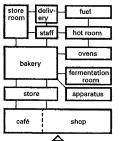
Food Shops



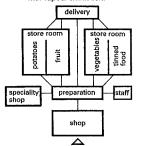




Traffic scheme for game and poultry dealer

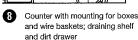


Traffic scheme for bakery. Storerooms 6 should be well ventilated, possibly with vapour extraction.



Sales scheme for greengrocer; small storeroom, as mostly delivered daily







Fish display case with cooler and extraction



Solid counter with marble and tiled worktop





### Fishmonger

Because fresh fish do not keep very long, they are stored cool, but smoked fish have to be stored dry. The goods are odour-intensive, so the shops are accessed through control doors or protective curtains. Walls and floors must be easy to clean. Take into account bulk deliveries in the design. Consider an aquarium (display advertising).  $\rightarrow$  **1** - **2** 

### Game and poultry dealer

This business is often combined with a fishmonger. Storage for only a day's needs. A workroom must be provided with plucking machine and game scraper. Because poultry is susceptible to odour, it must be stored separately in the shop and the cold room.

Counter worktops and walls (marble, tiles, mosaic, plastic) must be washable. Provide plenty of refrigerated display cases or cabinets.  $\rightarrow$  **3** – **4**.

### Greengrocer

Fresh vegetables, unprocessed or kitchen-ready, must be stored cool, but not chilled. Potatoes are stored in dark rooms and sold from the deposit-bearing containers they are delivered in (baskets, crates, boxes). Protective sliding inserts are provided under storage trays. Greengrocers  $\rightarrow$   $\bigcirc$  -  $\bigcirc$  can possibly be combined with flower shops. Self-service shops offer pre-packed goods in transparent packs.

### **Butcher**

Work steps: 1. delivery of live animals, 2. slaughter, 3. butcher, 4. process, 5. cool/store, 6. sell  $\rightarrow \mathbf{0} - \mathbf{0}$ . A single-storey shop is advantageous, possibly with hanging and sliding rail system, because sides of pork or quarters of beef weigh 50 kg. Processing and cold rooms must be 1.5-2 times the size of the shop. Walls: tiled, mosaic etc. and washable. Counter tops: marble, glass, ceramic.

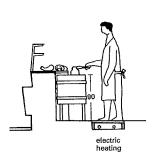


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Pavement sales to 'passers-by' on wheeled stand or at shop front with goods displayed for advertising purposes



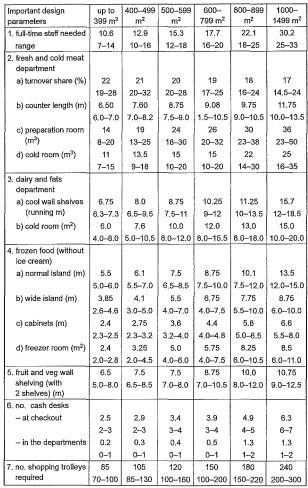
Counter with chopping block for butcher



Normal counter for butcher → 2 and for fishmonger

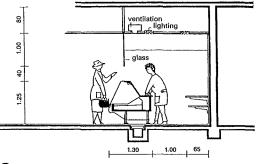
Self-Service Shops

Self-service shops mostly sell food. The staff is responsible for advice, assistance and service. The butchery, cold meats, fruit and vegetable sections are staffed. The goods are displayed clearly in packaging according to type. It is important to design practical routeing. The round trip starts at the basket stack or trolley park and ends at the checkout or packing table. Wall shelves extend up to reach height (top shelf is 1.80 m high and lowest 0.30 m above the floor).

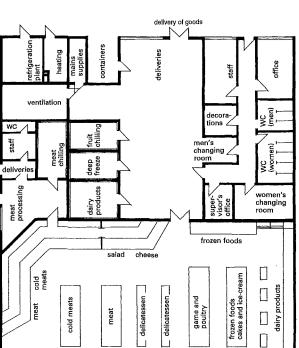


Note: first line = average values; second line = range of the parameter

Planning data for the design and fitting out of self-service shops and supermarkets



Service counter in self-service shop, section



## RETAIL

Retail

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