HOTEL LAYOUT AND AREA REQUIREMENTS

Layout and area requirements

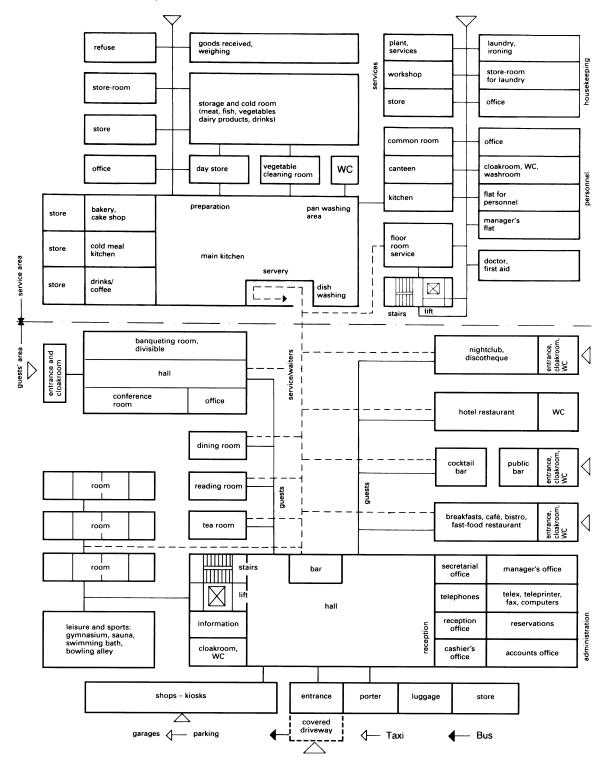
Different types of hotel offer varying standards of quality and facilities. Hotels may be part of a chain or independent. Where hotels do form part of a chain, special design requirements may be imposed. Hotel types include town hotels, holiday hotels, clubs, hotels with apartments and motels.

Accommodation facilities, including rooms, toilets, bathrooms, shower rooms, etc., hallways and floor service, should occupy 50–60% of the floor area. Public guest rooms, a reception area, hall and lounges require 4–7%, and hospitality areas, restaurants, and bars for guests and visitors 4–8%. A banqueting area with meeting and conference rooms needs 4–12%, domestic areas, kitchens, personnel rooms and stores

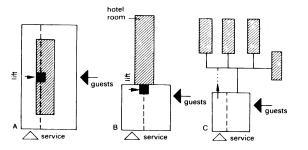
9–14%, administration, management and secretarial 1–2%, maintenance and repair 4–7%, and leisure, sport, shops and a hairdressing salon 2–10%.

Special areas for seminars, health centres and outdoor facilities, for which the space required can vary tremendously, may also be needed.

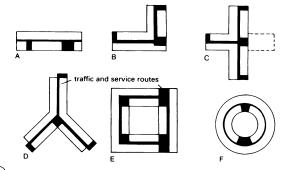
National systems of classification, compulsory or voluntary, vary in range of categories and method of designation (letters, figures, stars, crowns etc.). Over 100 classification systems are in use, most based on the World Tourism Organisation (WTO) model but customised to suit local conditions.



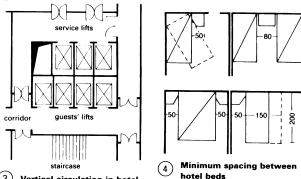
HOTEL LAYOUT AND AREA REQUIREMENTS



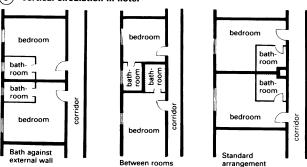
(1) Relationship between services and guest rooms



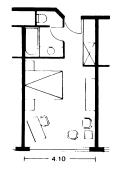
(2) Plan views of hotels



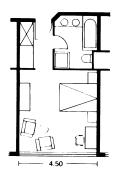
Vertical circulation in hotel



5 Bathroom arrangement



(8) Standard room



(9) Executive room

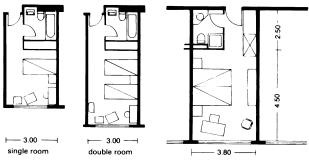
Hotels offer different types of accommodation, including bedrooms, suites, self-catering units and apartments using the hotel services \rightarrow 6 - 11. The size and number of beds largely dictates dimensions and layout of rooms, e.g. twin 100/200cm, double 150/200cm, queen-size 165/200 cm, or king-size 200/200 cm. Rooms may include a sitting area with chairs, a desk, TV, self-service drinks refrigerator and suitcase stand.

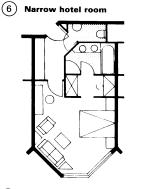
Corridor space should be about 6m² per room, and normally at least 1.5-1.80 m wide. Separate routes should be provided for guests, staff and goods \rightarrow (1) – (2).

There is always movement in and near a hotel. Customers move from parking areas, through the entrance and reception, and then to lifts, staircases or corridors leading to bedrooms or public rooms. In most hotels, customers are not allowed to go from bedrooms direct to the car park without passing through reception. Suitable fire escape routes must be provided to meet legislation. Staff move from staff housing, via their own entrance and changing rooms, to kitchens, service areas, bars, workshops, etc. All deliveries must be taken to the correct department or storage area, perhaps using special lifts. Disposals should be from special roofed-over areas (to limit night-time noise), with a clearance height of 4.35 m.

Hotels usually have a restaurant and/or breakfast area and one or more bars. Hotels with conference facilities may include a multifunctional central hall, meeting rooms, exhibition areas and buffet facilities. Storage for extra furniture and additional parking space may be necessary. Specialist facilities may include audiovisual media rooms, projection equipment, simultaneous translation facilities, copying machines, fax machines and telephones.

Hotels should provide facilities for the handicapped and disabled in at least 1-2% of rooms, preferably on the ground floor, and with the following minimum criteria: ramps 1:20, corridors 915 mm wide, doors 815 mm clear opening, lobbies 460 mm wider than the door on the latch side, closet doors either narrow or sliding, shelves 1.37 m high. Bathrooms: central turning space 1.52 m, width 2.75 m, vanity tops 860mm high, 685mm knee space, mirrors extending down to 1.0 m, compromise toilet seat height usually 430 mm. Grab bars are needed on the headwall and sides of the bath and toilet. Standard bedrooms, 3.65 m wide, can be adapted to the following criteria: switches 1.2 m high, space between beds and furniture 910 mm, beds 450-500 mm high with toe space below. Eye level from a wheelchair is 1.07-1.37 m; dressing tables should allow for this and have 685 mm knee space. Low window sills are also preferable.



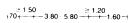


(10) Luxury room (> 5.0 m wide)

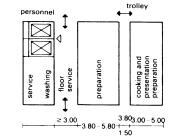


(11) A variant of (10)

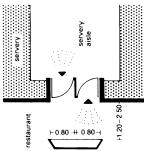
service waiter's aisle washing cooking and presentation



(1) Layout for small business



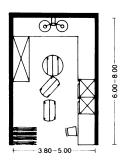
2 Layout for medium-size/ large businesses



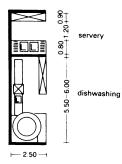




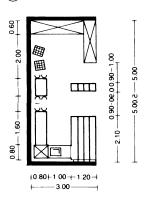
4 Service and tray trolleys



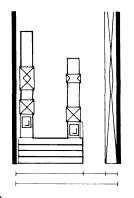
5 Floor servery



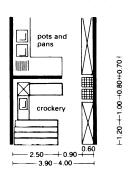
6 Servery/dishwashing area



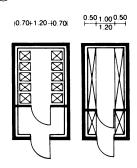




8 Crockery and glasses







Old store Metal trolleys
Shelving

HOTEL LAYOUT AND AREA REQUIREMENTS

Restaurants/catering

Care should be exercised when sizing restaurants on the basis of people per square metre since circulation requirements and table layouts, etc., vary considerably. The following table gives some basic guidelines.

hotel size (rooms)	coffee shop, café ^{a)} , brasserie (seats)	main or speciality restaurant (seats)	ethnic or gourmet restaurant (seats)
50	50-75	-	-
150	80	60	-
250	100	60	50
space provision/ seat ^{b)}	1.6 m ²	2.0 m ²	2.0 m ²

- a) excluding poolside, café-bar and other club facilities; area also usable for breakfast meals with buffet or table service
- b) the area required per seat, dictated mainly by size and spacing of furniture, proportion of tables seating two persons and arrangements for food service (buffet, table service, etc.)

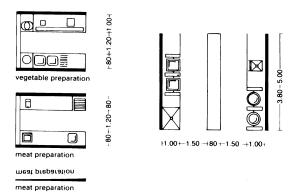
Hotel type	m² per room
Standard hotel with large conference room, night club, shops	55-65
City-centre hotel	45-55
Motel	35-45
Holiday hotel	40-55
Low-medium class hotel with separate bathrooms and small range of meals on offer	18–20

(11) Gross areas per room for different types of hotel

Area/department	200 rooms, in suburban setting m2 per room	500 rooms in central location m2 per room
Hotel room	24	26.5
Corridors, lifts, stairs	3.2	9.3
Service	0.6	0.7
Total per room	27.8	36.5
Entrance area including lifts for personnel and service	1.6	1.8
Reception, WC, reservations, telephones, luggage, cloakroom	0.4	0.4
Administration	0.3	0.4
Restaurant	1.1	0.6
Coffee bar	0.6	0.5
Coffee bar	0.6	0.5
C-#		0.0
Coffee bar	0.6	0.5
Bar 1, plus counter	0.9	0.4
Bar 2, plus counter	0.5	0.3
Lounge Toilets	0.5	0.3
Conference/lecture rooms	0.4	0.3
Ancillary rooms	1.1	1.3
Furniture store	0.1	0.5
Private bedrooms and living rooms	0.1	0.2
Shops	0.4	0.9
Total entrance/quest area	7.8	0.2 8.2
Kitchen, provisions	3.8	2.5
General stores	0.9	0.9
Workshops, maintenance	0.8	0.4
Laundry, linen store	0.3	0.7
Staff dining room, WC, changing rooms	1.0	1.1
Personnel rooms, accounts, supervision, caretaker	0.3	0.5
Circulation areas, service lifts	0.8	0.9
Total rear hotel service area	7.9	7.7
Total area, without heating services or inside/outside parking facilities	43.5	51.7

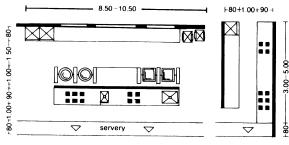
12) Area requirement per hotel room → 11

HOTEL KITCHENS



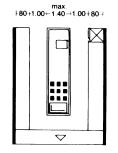
(1) Vegetable/meat preparation

(2) Kitchen for banquets

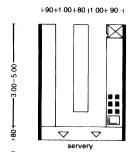


Hot meals kitchen (3) (American line, 1-2 cooks)

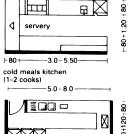
European line (4) (1-2 cooks)



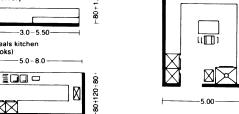
Hot meals kitchen (French block arrangement)

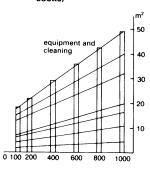


Mixed meals kitchen (6) (1-4 cooks)



Patisserie (1-3 pastry (7) cooks)





Meals/day: base kitchen size in m²



Meals/day: areas for (10)different service types

Kitchen size is determined by the number of workstations, the space required for equipment, the range of meals and the extent of food preparation. Therefore number of covers or number of seats are not adequate guides. The following table provides an approximate basis for initial estimates of space requirements.

area per seat	high-grade hotels (m²)	mid-grade hotels (m²)	economy hotels (m²)
main kitchen and stores ^{a)} satellite	1.2	1.0	0.7 ^{d)}
kitchen ^{b)} banguet	0.3		
kitchens ^{c)}	0.2		

- a) storage requirements depend on frequency of deliveries
- storage requirements depend on frequency of deliveries
- a storage requirements depend on a second of the including local dish-washing closs of the second o

Kitchen planning requires four stages of development:

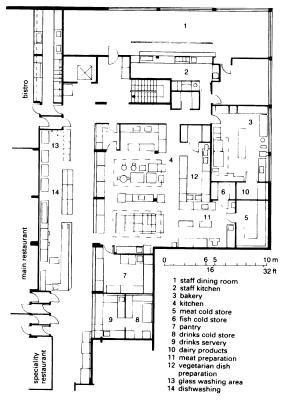
- determine a process plan covering all major areas;
- check maximum and minimum personnel needs per area;
- determine the equipment needed for each area;
- space allocation.

List the activities and functions of each of the three main areas: kitchen, stores and service. The central interface between guest, stores and service areas is the waiters' servery. Around this point are grouped the facilities for serving food and drinks as well as for disposal of soiled utensils and waste. Floor service is orientated toward the routes leading to the guests' rooms. However, for maximum efficiency it is important that routes between the kitchen, servery and restaurant are as short as possible.

Hotel food preparation and beverage services fall broadly into three groups. (1) A choice of restaurants and bars, including banqueting areas and room service. This needs a main kitchen and stores area, with satellite kitchens near each restaurant and banqueting room, and service pantries on each guest-room floor. (2) One or two restaurants and function rooms on the same floor. Needs one main kitchen serving restaurants and function rooms direct. (3) Minimal food service in the hotel, but separate restaurant(s) available (for budget hotels and holiday villages). Central vending machines and/or individual cooking facilities may be provided.

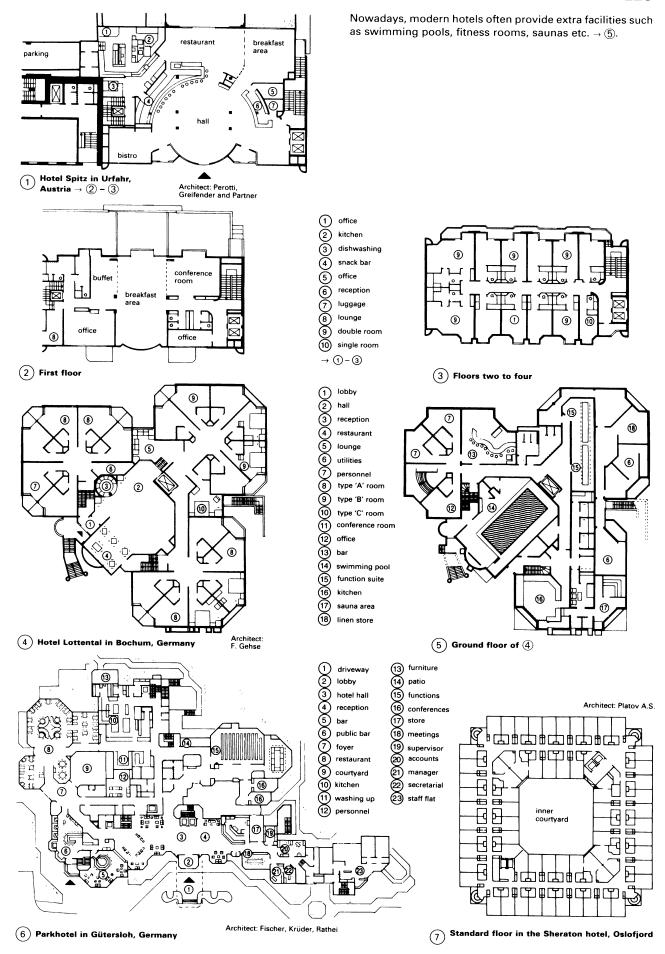
Laundry services for a hotel may be provided by:

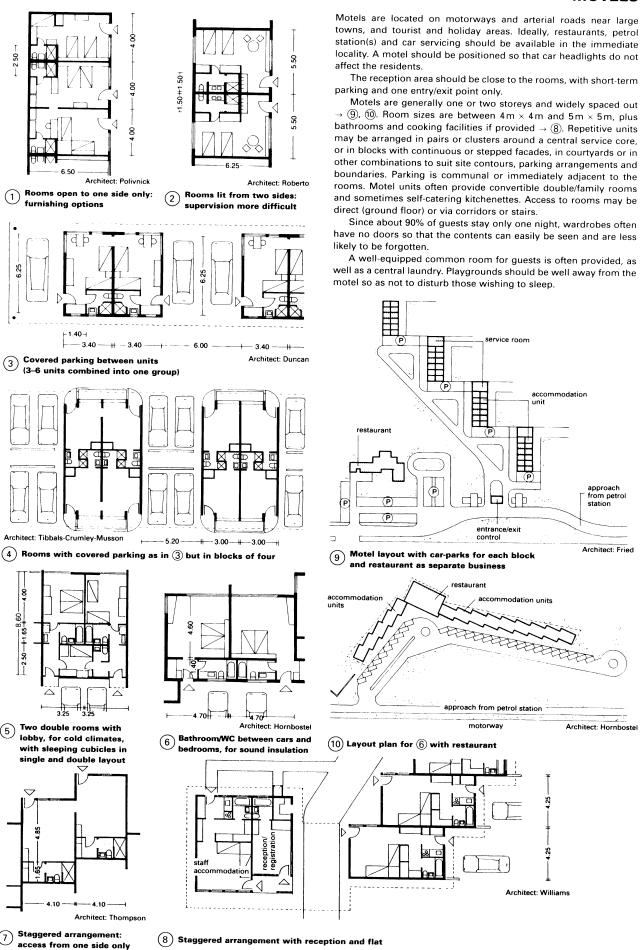
- linen rental or contracts with outside laundries;
- centralised services operated by the hotel group;
- hotel-operated laundry on the premises.



Kitchen for 100 standard meals, 100 speciality meals, 120 bistro covers and 80 staff meals

HOTELS: EXAMPLES



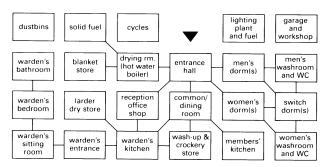


YOUTH HOSTELS

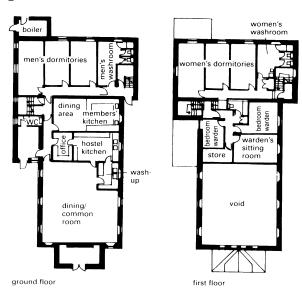
room	area (m²)	comments	
entrance hall	14	with bench and shoe rack	
office/reception/shop	11	hatch to entrance hall; close to warden's kitchen	
drying room	14	preferably accessed via entrance hall without passing through principal rooms; with racks or hangers; heated	
luggage room	14	if combined with drying room, laundry and WC, 14-18.5 m ² each	
common room	18.5–23		
dining room	46.5	or 0.7 m ² /person	
members' kitchen	16	direct access to dining room	
warden's kitchen	16–23	if possible with combined door and hatch for direct service to dining room; sink in kitchen preferred to separate scullery; access to dustbins	
larder	9.3	each	
wash-up	11	with 1 or 2 sinks; table space for dirty crockery; easy access from dining room and to warden's kitchen (for crockery return) if possible	
warden's lounge	14	layout of these will usually depend	
warden's bedroom 1	11	on balance of convenience,	
warden's bedroom 2	9.3	privacy, aspect	
warden's bathroom	3.25		
dormitories	158–167	i.e. 3.16m²/person	
WCs		for hostellers not less than 5; 1 for warden	
washing facilities		for each sex 1 washroom with bath (partitioned off) or shower, footbath and basins to DES standards	
airing cupboard	1	for warden's use	
blanket store	3.75	warmed	
cycle store	28	for about 30 cycles, preferably in racks	

note: floor areas are intended as minimum desirable but in alterations much will depend on the existing building

YHA schedule of accommodation for 50 bed hostel



(2) Schematic layout for single-storey youth hostel



(3) Youth hostel converted from existing house by YHA

Youth hostels are often conversions of existing buildings partly because of a shortage of money and also because they are often located in aesthetically sensitive surroundings. The Youth Hostels Association (YHA) in the UK is therefore reluctant to lay down definitive plans for typical hostels. Nevertheless, there are specifications and requirements to be considered, particularly relating to fire safety, and the Department for Education and Employment (DFEE) in the UK also has requirements, governing space in particular, for the hostels to which it allocates funds.

Fire safety

The YHA is increasingly concerned with the application of more stringent standards of fire safety to both new and existing hostels. Principal sources of danger have been identified as interference with stoves or heaters, particularly in the drying room, electrical or gas faults and misuse of cooking stoves. Provision of means of escape in old buildings can be problematic and protected stairs are difficult to provide where there are timber floors. The distances to be covered on fire escape routes to reach safety are usually set out in fire regulations. Generally, 18 m to a place of safety is considered the maximum in buildings with timbered floors; where floors are noncombustible this distance is 30 m. In small hostels, akin to houses, the distances very rarely contravene the regulations. In larger hostels a minimum of two staircases are normally required in such positions that no person on any floor has to go further than the maximum travel distance to reach a point of safety.

Bed spaces

The following guidelines can be applied:

- 3.1 m² dormitory floor area per person
- 1 WC per 10 bed spaces
- 1 hand basin per 6 bed spaces
- 1 bath/shower per 20 bed spaces

For the purposes of calculating floor areas DFEE disallows any floor space over which the ceiling is less than 2.10 m.

The YHA has lower standards, depending on the grade of the hostel: simple or standard. For simple hostels (which need not have a resident warden) the minimum area per bed is 2.04 m²; for standard hostels (which must have a resident warden living within the curtilage of the hostel at all times when open to members) dormitories should have a minimum of 2.32 m² per bed space (2.78 m² is recommended). As double bunks are normally used this means 6.31 m² per bunk must be allowed if DFEE standards are to be met.

Dormitories

The YHA lays down that all hostels must have separate dormitories for men and women, with separate access, and the layout should allow them to be used by either sex as bookings demand. This means either sex must be able to reach the appropriate lavatory. The most compact solution is to have a block of interconnecting rooms and lock the appropriate doors to segregate the sexes. The YHA has been switching to the four-bed dormitory arrangement used in many Continental hostels, with sanitary facilities accessed via a common corridor, motel style. DFEE has been pressing for improved degrees of privacy for women's washing arrangements. This can be achieved by arranging wash basins in cubicles with curtained entrances.

Amenities

As hostels are generally closed during the day, a secure luggage room without access to the rest of the hostel must be provided so arriving members can store their gear. This could be part of the drying room, where hostellers remove their outer clothing before booking in at the reception desk.

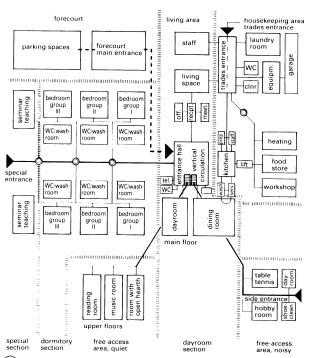
To allow visitors to cook their own meals a members' kitchen should be provided in all hostels in addition to the kitchen for the warden, who will also cook for hostellers. These kitchens should be equipped with double cooking rings and grill units, fuelled by propane if no mains service is available. Lockers and washing-up space are also required.

Warden's quarters

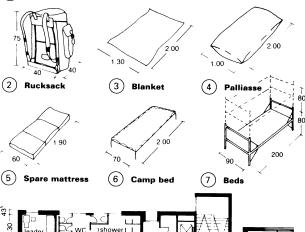
Large hostels (40 beds or more) are often administered by married couples, possibly with children who will also need living quarters. The largest hostels can have assistant wardens, who could potentially need their own recreation rooms and a staff kitchen and dining room.

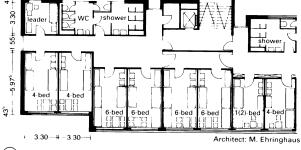
In large hostels, the chief warden's quarters should be in the form of self-contained houses or flats, with three bedrooms, a bathroom, kitchen, dining room and sitting room. In these circumstances hostellers' accommodation should never be above or below the warden's.

YOUTH HOSTELS

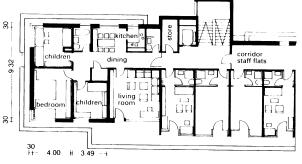


Schematic diagram of functions





Youth hotel with youth hostel in Cologne-Riehl; 4- and 6-bed rooms



Warden's flat and accommodation for other staff \rightarrow (8)

A distinction is made by the German Youth Hostel Association between youth hostels and youth hotels. The

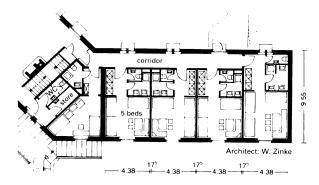
former are usually in the country and include children's hostels for children up to 13 and youth hostels for 13-17year-olds, although there is usually an age overlap. Youth hotels are in towns and cities with tourist and cultural attractions, and there is an international trend towards a 3star hotel standard with 120-160 beds.

Youth hostels and hotels have a variety of purposes: accommodation and meeting point for conferences, courses, seminars, educational courses for young people and adults, recreation, school trips, individual and family hiking.

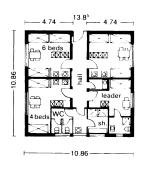
The functional areas required include common rooms and dayrooms (one per 20-25 beds), several dining rooms (some of which can also be used for meetings and functions), multi-use circulation spaces with more secluded bays, cafeteria, lecture rooms, entrance hall/reception and office for youth hostel warden. The areas required are dependent on the number of bed spaces. Outside, there may be requirements for a camp site (with doors to sanitary facilities), sports and games pitches, parking for buses and cars, and a garden for the hostel warden.

There is a trend to reduce the numbers of beds in the hostel rooms to between four and six (eight maximum) and to have separate rooms for parents and children. In youth hotels there are usually two to four beds and single rooms are available for group leaders and visiting speakers.

Showers and washrooms must be near to all rooms and separate WCs provided. All should be accessible to the disabled. A lockable luggage store and cleaning rooms are desirable on each floor.



(10) Habischried rural school hostel; 5-bed rooms



Uslar youth hostel; pavilion



(12) Pavilion with 14 beds

YOUTH HOSTELS

