

## Fit-out guide

### Fixed food premises

Guide for operators

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## Introduction

This guide is for businesses involved in the design, construction and fit-out of fixed food premises. It provides guidance to operators, architects, designers, builders, equipment manufacturers and other professionals associated with the design and construction of food premises.

It is based on the Food Safety Standard 3.2.3 (Food premises and equipment) and the Australian Standard 4674-2004 (Design, construction and fit-out of food premises). It aims to provide users with minimum requirements and best practice options to produce food that is safe to eat and free from contamination. This guide is to be read in conjunction with an application package and guide for the licensing of fixed food premises as per the *Food Act 2003*.

Food safety begins at the earliest planning stages. The correct fit-out will assist you in providing food premises that are easy to clean and maintain, and facilitate good hygiene practices.

This guide applies to existing premises, new premises, domestic premises used for commercial purposes. Examples of these include cafés, hotels, bars, pre-packaged food premises, food sampling, restaurants, takeaway outlets, caterers, and those food businesses operating from home.

This guide aims to ensure that food premises:

- are easy to clean and maintain;
- have sufficient space, facilities and suitable equipment to produce safe food;
- are provided with services such as potable, water, effective sewage disposal, and sufficient light and ventilation for food handling operations;
- provides facilities for staff to maintain standards of personal hygiene and equipment cleanliness that will protect food from contamination; and
- are proofed against harbourage and entry of pests.

The set up and operation of a food premises must comply with the Food Standards Australia New Zealand (FSANZ) Food Safety Standards. This guide is based on these standards and will provide adequate information to design a food premises. Knowledge and understanding of these standards (Food Safety Practices and General Requirements, and Food Premises and Equipment) are necessary

to adequately design and construct a food premises.

## 1. How to use this guide

This guide will provide you with solutions for designing or constructing a food premises. Council has written this guide based on:

- Food Safety Standard 3.2.3 (Food Premises and Equipment); and
- other relevant Australian Standards.

This guide will be useful if you are designing a café, restaurant or takeaway outlet. It also provides advice if you are a caterer running a food business from home, or operating a charity or non-profit organisation to sell food.

It is based on three concepts:

### 1. Food safety outcomes

The food safety outcomes, intended by the FSANZ Food Safety Standard 3.2.3 (Food premises and equipment), can be found in the subheadings at the beginning of some sections of this guide.

### 2. Compliance or minimum requirements

Minimum requirements are compliance measures that Council looks for as the minimum standard required to achieve the intended food safety outcomes. These are determined from a range of standards, knowledge and experience, such as:

- Australian Standard 4674-2004 (Design, construction and fit-out of food premises)
- Council guidelines;
- experience in assessment of the design, construction and fit-out of food premises.

A number of acceptable solutions may be identified and listed for each outcome. Premises may need to use some or all solutions depending on the nature of the operation of the food business. Alternatively, you may be able to achieve an outcome using a solution or method not listed in this guide. It is the applicant's responsibility to demonstrate to Council that any alternative methods of complying to the minimum standards still meet the requirements of the Food Safety Standards. Before implementing alternatives, seek advice from Council.

### 3. Best practice

Best practice is where the solution is considered to be above minimum requirements. Best practice solutions are optional. Not all best practice options are listed in this guide. For more information on the best practice options available, contact your industry association.

#### Where can I obtain copies of the Food Safety Standards?

These standards can be obtained by visiting [www.foodstandards.gov.au](http://www.foodstandards.gov.au) or contact FSANZ on 02 6271 222 to purchase a copy.

## 2. Plans and approvals

When designing, building or fitting-out a new food premises or making changes to an existing one, your first step will be developing or obtaining existing plans. The plans allow Council to assess the proposed food premises before building commences. This saves architects, developers and food businesses time and money. Before building or renovation starts, copies of all plans - drawn to scale - must be lodged with Council.

### General information required

You will need to provide the following information when you submit your plans:

- Name, address and contact details of the architect, draftsman or shop fitter;
- Drawing scale and date when plans were drafted;
- Name of food business operator;
- Address of the premises and real property description (i.e. lot and registered plan number);
- Proposed name of premises and intended nature of the food operation;
- A document providing a brief overview of the types of activities and food processing to be carried out on the premises as well as the types of food involved in the activities and processes.

### Types of plans required

You must submit copies of the following types of plans for your premises. Your architect, draftsman or shopfitter must be able to assist you in providing these.

- Site plan - to a suitable scale (e.g. 1:100) (not needed for mobile premises) - including car

parking, refuse area, adjacent land uses, toilet facilities.

- Floor plan - to a suitable scale (e.g. 1:50)
- Sectional elevation plans - to a suitable scale (e.g. 1:50).
- Hydraulic plans (plumbing details) - to a suitable scale (e.g. 1:50).
- Mechanical exhaust ventilation plans - to a suitable scale (e.g. 1:50).

### Details required on plans

You need to ensure the following details are included on the plans for your premises:

- Finishes to floors, walls and ceilings;
- Layout of all equipment, benches, fittings and fixtures, and mechanical ventilation;
- Door and window openings;
- Where seating is provided for diners, the number of square metres of floor space available for dining and the number of persons to be catered for in this area;
- Customer and staff toilet details (if detached, provide the distance to the facilities and the number available for use);
- Mechanical exhaust ventilation (refer to Figure 7);
- Process flow, from product received through to end-product delivered.

If you need further information on details required on plans, please contact Council.

### Other approvals to consider

When building your new premises or making changes to an existing food premises, it is essential that certain approvals are obtained before others. By obtaining all the required approvals before starting the design and construction, you will reduce the possibility of expensive mistakes and avoid prosecution for breaches of the relevant legislation. The following checklist can be used as a reference when making an application for a new food premises. This will assist you in providing Council with relevant and correct information so your application can be quickly approved.

**Design approval checklist**

The following approvals must be considered before starting construction of your food premises:

- Development assessment – check that a food business can operate from the area you are considering under Council's relevant Local Environment Plan;
- Building – building approval is needed from a Council or private certifier;
- Plumbing – plumbing approval is needed from Council's plumbing department;
- Trade waste – obtain approvals for grease traps from a Council Trade Waste Officer;
- Advertising signs – obtain approvals from Council if required;
- Footpath dining permit – obtain approvals from Council;
- Goods on footpath permit – obtain approvals from Council;

### 3. Design and layout

**Food Safety Standard 3.2.3 (Food premises and equipment), Division 2, Clause 3****Required outcome**

Food premises are required to be designed and constructed to:

- be appropriate for the types of food produced and activities conducted;
- provide adequate space for all activities conducted and all equipment to be used or stored;
- allow easy cleaning/sanitising procedures of all structures and equipment;
- prevent entry of pest, dust, fumes, smoke and other contaminants;
- exclude favourable sites for pests to harbour (live and breed).

**Minimum requirements****Flow of food through a food premises**

- The correct design and layout can help streamline work practices, reduce cleaning and maintenance, and prevent cross contamination.

- A premises must be designed so that the flow of food is in one direction from receipt, to storage, preparation, packaging and serving, and finally to disposal, and does not cause cross contamination at any stage.

**Adequate space**

- Adequate space is to be provided for all activities required to carry out the production of food on the premises.
- Storage of potentially hazardous food (hot and cold) must be adequate for the business to comply with Food Safety Standard 3.2.2 (Food Safety Practices and General Requirements).

**Cleaning, sanitising and maintenance**

- Layout and design of the premises must provide access for cleaning, sanitising and maintenance. Refer to the section titled "Fixtures, fittings and equipment" for more information.

**Food preparation areas**

- Adequate space must be provided for all food related activities.
- Exits must be in accordance with the Building Code of Australia. If the premises is an existing building, you may need to check with a building surveyor to see if the exits comply.

**Dining areas**

- Adequate space must be provided for patrons and staff to access dining and serving areas. These areas must be designed in accordance with the Building Code of Australia.
- For cafés, restaurants and bars, a minimum floor area of 1m<sup>2</sup> per person accommodated must be provided in accordance with the Building Code of Australia.

**Proofing against pests**

- Windows must be kept closed or fitted with mesh screens that can be easily cleaned.
- Entrances and exits must be fitted with self-closing solid doors, self-closing mesh screen doors or air curtains, where applicable.
- Holes and spaces if fittings penetrate walls and ceilings, they must be sealed. Spaces between equipment and walls must either be sealed or enough space provided for easy cleaning to prevent the harbourage of pests.

**Figure 1 Example of correct flow of food and staff through a food premises**

- Insect control devices – these can be installed but must not be located directly over the food preparation area or food storage areas. Insect control devices must be capable of retaining any insect within the device.

## 4. General requirements

### Food Safety Standard 3.2.3 (Food premises and equipment), Division 2, Clause 3

#### Required outcome

The design and construction of a food premises must:

- be appropriate for the types of food produced and activities conducted;

- provide adequate space for all activities conducted and for all equipment to be used or stored;
- allow easy cleaning/sanitising procedures of all structures and equipment;
- prevent entry of pest, dust, fumes, smoke and other contaminants;
- exclude favourable sites for pests to harbour (live and breed).

#### Minimum requirements

##### Appropriate for use

Food premises design and layout must be well-planned taking into consideration several important elements to ensure effective and acceptable operation. Food premises design principles must accommodate safe flow of product and waste to

minimise risks of food and equipment contamination. Separating particular processes in the food premises must be considered including:

- raw and cooked foods;
- hand washing facilities;
- wash areas;
- storage facilities;
- waste disposal areas.



**Important:** A properly designed and operated food business will minimise the opportunity for food to be contaminated.

### Adequate space

Proper planning of a food premises will effectively designate adequate space and areas for food activities and storage of equipment. Storage areas must be constructed of materials which are durable and easily cleaned in line with requirements for floors, walls and ceilings.

Adequate space must be provided for:

- food delivery access;
- dry goods - sufficient shelving space, pantry area and food grade containers for anticipated stock levels;
- hot and cold food - adequate refrigeration, freezer and bain-marie (hotbox) food storage including display areas, food preparation areas and expected deliveries;
- cleaning chemicals and equipment - separate cabinets, lockers or cupboards for all chemicals and cleaning supplies;
- waste - sufficient and separate waste, containers for all anticipated waste including cardboard, glass, general waste, and waste oil storage; waste bins must be impervious, and designed to be easily cleaned to prevent the attraction of pests;
- personal belongings - separate lockers, cupboards or cabinets for personal clothing and items;
- food contact utensils - adequate storage containers that are easily cleaned, preventing contamination;
- crockery and cutlery - sufficient cupboard space for all crockery to be stored;
- packaging - adequate storage located above the floor and stored to prevent contamination
- office and business equipment (used to run the business) – must be separate from the food

storage and preparation areas to prevent contamination.



**Important:** Contamination of food, equipment and non-food materials can occur when improper storage facilities are used

### Cleaning and sanitising

The design of all food premises must provide for suitable access for effective and efficient cleaning procedures of all equipment, fittings, surfaces and areas. Refer to the section on “Fixtures, Fittings and Equipment” for more information.

### Entry of pests and harbourage

All practical measures must be implemented to prevent entry of pests into a food premises. In addition, the internal structures are to be finished and designed to prevent favourable sites for pest harbourage. The following may be implemented, when applicable, to satisfy this requirement:

- Installation of self-closing recessed doors or self-closing mesh screen doors with fitted weather strips to prevent pest entry into the premises;
- Mechanical air curtains and/or plastic curtains may be considered to minimise pest entry
- All external windows must be fitted with close fitting mesh insect screens;
- All visible holes, service entries, gaps, crevices, cracks and voids are to be effectively sealed;
- Insect control devices may be used but must not be located above or immediately adjacent to food preparation, open food storage or cooking areas to prevent food contamination. The insect control device must be designed to capture and contain all insects within the device, operated and installed according to manufacturer's specifications, and cleaned on a regular basis;
- Installation of pest-proof roller doors. This must include:
  - \* installation of weather strips at the bottom of the roller shutters;
  - \* sides of the roller shutters fitted tightly into the housing;
  - \* installation of a pest-proof material at the top of the roller shutter to fill the gap usually left when the shutter is closed overnight.

## 5. Floors

### Food Safety Standard 3.2.3 (Food premises and equipment), Division 3, Clauses 9 and 10

#### Required outcome

Floors must be designed and constructed so that they:

- are appropriate for the activities conducted on the premises;
- can be effectively cleaned;
- do not absorb grease, food particles or water;
- are laid so there is no ponding of water;
- are unable to harbour pests.

#### Minimum requirements

##### Floor finishes for food premises

Floors will be finished with an approved material and laid to a smooth surface, free from cracks and crevices. The following table shows the suitability of floor finishes in food preparation areas.

suitability of floor finishes in food preparation areas

##### Food preparation areas

Floors are to be finished with one or a combination of the following materials:

- Sealed quarry or ceramic tiles;
- Stainless steel, non-slip;
- Laminated thermosetting plastic sheeting;
- Epoxy resin;
- Steel trowel case-hardened concrete or similar impervious material;

- Floor tiles grouted with epoxy grout and finished flush with the surface of the tiles;
- Floors, draining to floor waste, sufficiently graded (at least 1:100);
- Feather edge skirting not permitted.

##### Food storage areas

- Floors in storage areas for unpackaged food must meet the same requirements as floors in food preparation areas.
- Floors in storage areas for packaged food must have an impervious finish.

##### Plinths

- Plinths can be used to hold heavy equipment that is unable or difficult to move for cleaning. Refer to Figure 2 below.
- Plinths are to be constructed to meet the same specifications as floors; must be solid; without voids and be an integral part of the floor; have the same top area finish as the floor; be rounded at all exposed edges and coved; be approximately 100mm high.
- The base of the equipment is to be sealed to the plinth and overhang to prevent liquid, food or floor washing to access underneath the equipment.
- Alternatives to the use of plinths include metal legs, castors and brackets. Refer to section titled "Fixtures, Fittings and Equipment" for details.

**Table 1 Suitability of floor finishes in food preparation areas**

Finish	Wet areas	Food preparation	Vegetable preparation	Servery	Store room	Chillers/freezers	Bin store	Eating areas	Comments
Stainless steel non-slip	•	•	•	•	•	•	•	•	Welded joints
Ceramic tiles	•	•	•	•	•	•	•	•	Epoxy grouts
Quarry tiles	•	•	•	•	•	•	•	•	Sealed
Steel trowel case hardened concrete			•		•	•	•	•	Smooth sealed finish; no joints
Carpet/carpet tiles								•	
Wooden flooring								•	Sealed
Poly vinyl sheet	•	•	•	•	•	•	•	•	Heat welded joints
Vinyl tiles			•	•	•	•	•	•	
Plastic matting				•				•	
Cork tiles								•	Sealed
Epoxy resin	•	•	•	•	•	•	•	•	

Figure 2 Plinth methods (not to scale)

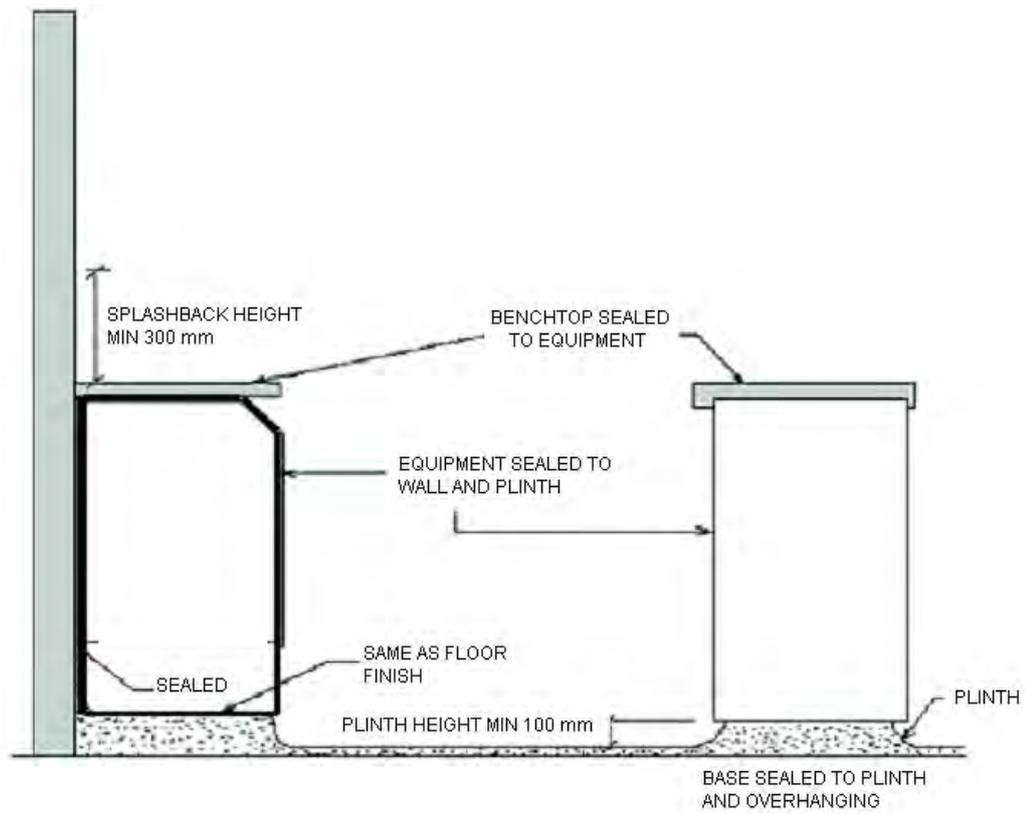
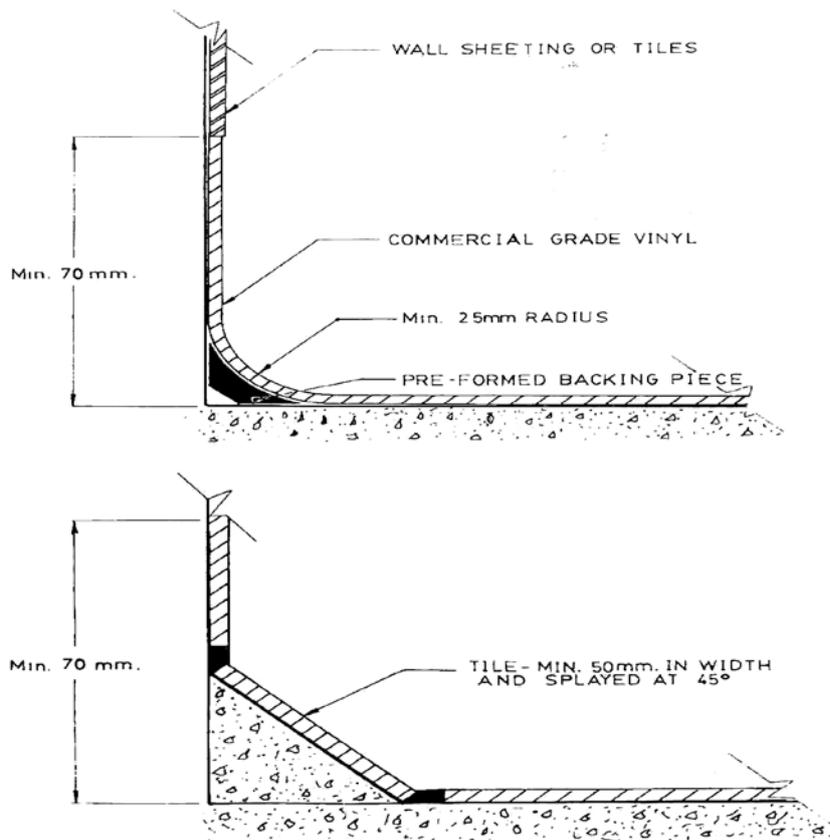


Figure 3 Coving methods (not to scale)



**Handy hint:** Coving is required to assist with cleaning and to ensure dirt and grease does not build up at these junctions.

## Best Practice

### Coving

- The intersections of walls to floors and floors to plinths are to be coved; the surface finish must be of the same materials.
- Floors cleaned by hosing with water are to be coved at the intersection with walls and plinths as shown in **Error! Reference source not found..**
- Coving is to be installed in accordance with Figure 3, or installed in accordance with other methods which achieve the same outcome.

## 6. Walls and ceilings

### Food Safety Standard 3.2.3 (Food premises and equipment), Division 3, Clauses 9 and 11

#### Required outcome

Walls and ceilings must be constructed to:

- be appropriate for activities conducted on the food premises;
- protect food from contamination where necessary;
- prevent the entry and harbourage of dirt, dust and pests;
- prevent absorption of grease, food particles and water;
- ensure easily and effectively cleaned.

#### Minimum requirements

##### Wall construction

- Walls are to be solid and of frame or preformed panel construction where voids can be filled with a suitable material.
- Joints between preformed panels must be filled and finished flush with the surface of the sheeting material.
- Cover strips are not permitted in food preparation areas as they allow dirt and grease to accumulate.

##### Wall finishes for food preparation areas

- Walls are to be finished with a light coloured, high gloss, easy-to-clean surface.
- Walls in food preparation areas are to be finished with an approved material such as:
  - \* glazed tiles (not suitable for wash down areas) – preferably laid to a minimum height of 2m;
  - \* stainless steel or aluminium sheeting;
  - \* acrylic or laminated plastic sheeting;

- \* polyvinyl sheeting with welded seams;
- \* plaster board;
- \* cement render.

- Any finish continued above ceramic tiles must be finished flush with the tiles to prevent the accumulation of dirt and grease.
- Architraves, skirting boards, picture rails or similar protrusions on food premises walls are not permitted.
- Walls at the rear of cooking appliances must be surfaced with an impervious material, such as stainless steel, which extends from the canopy to the floor. Where a cooking appliance is sealed to the wall, the material must be lapped over the top edge of the appliance to provide a grease and vermin-proof seal. Cooking appliances must only be sealed to walls made of a non-combustible material.
- Walls at the rear of benches, sinks and hand basins must be surfaced with an impervious waterproof material to a height of approximately 300mm.
- In wet areas, the bottom plate in all timber framed partitions in food preparation areas must be placed on a “dwarf” wall constructed of concrete or similar material, and constructed approximately 70mm above the floor.

##### Ceilings

- The ceiling height in a food premises must not be less than 2.4 metres.
- Ceilings must be free of open joints, cracks and crevices.
- The intersection of walls and ceilings are to be tight jointed, sealed and dust-proof.
- The ceiling must be finished with a material that is washable and impervious.
- Ceilings must be finished in a light colour to facilitate cleaning.
- Approved materials for ceilings include:
  - \* fibrous plaster;
  - \* plasterboard;
  - \* fibrous cement;
  - \* cement render with steel trowel;
  - \* drop in panels are not to be used in food; preparation or display areas.

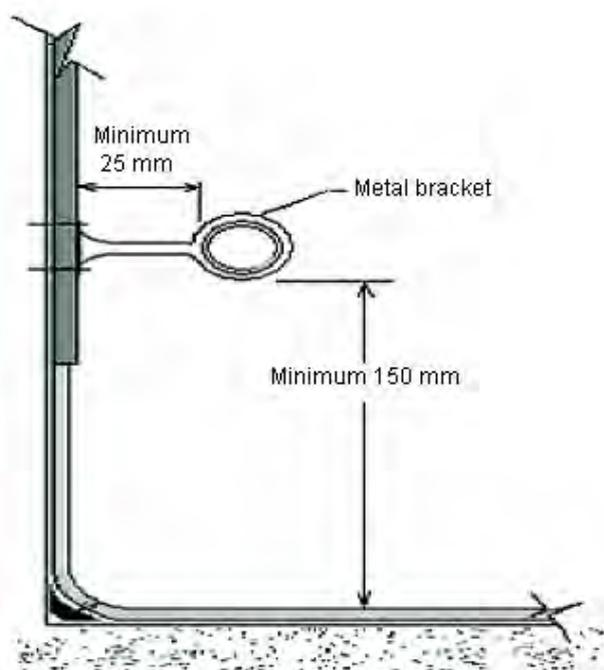
##### Pipes, conduits and wiring

- Must be concealed in floors, plinths, walls and ceilings, or fixed on brackets providing at least 25mm clearance between the pipe and adjacent surfaces, and 150mm between the pipe or

conduit and adjacent horizontal surfaces (Figure 4).

- Service pipes, conduits and wiring are not to be placed in the recessed toe space of plinths or equipment.

**Figure 4 Example of clearance for pipes and conduits (not to scale)**



## 7. Fixtures, fittings and equipment

### Food Safety Standards 3.2.3 (Food premises and equipment), Division 4, Clause 12

#### Required outcome

Fixtures, fittings and equipment must be:

- adequate for the production of safe and suitable food;
- fit for their intended use.

Fixtures, fittings and equipment, and food contact surfaces must be designed, constructed, located and installed so that:

- there is no likelihood they will contaminate food;
- they can be easily and effectively cleaned (including eating and drinking utensils);
- surrounding surfaces can be easily and effectively cleaned;
- they do not harbour pests.

#### Equipment for cleaning and sanitising

#### Minimum Requirements

##### Facilities

The following table shows the different facilities required when undertaking food preparation, cleaning and sanitising activities,

**Table 2 Facilities for food preparation, cleaning and sanitising**

Food premises activities	Minimum facilities for cleaning equipment and preparing food
No preparation/minor handling of pre-packaged food	Single bowl sink (capable of immersing the largest equipment)
Handling unpackaged food	<ul style="list-style-type: none"> <li>• Double bowl sink (capable of immersing the largest equipment), or</li> <li>• Dishwasher/glass washer and single bowl sink (where all food contact equipment will fit in the dishwasher/glass washer), or</li> <li>• Double bowl sink and a dishwasher/glass washer (where some equipment has to be washed/sanitised in the sink)</li> </ul>
Where food is prepared by immersion or rinsing in water	Designated food preparation sink
Where floors and equipment are to be hosed	Designated hose connection

### Hot water supply

- All equipment for cleaning and sanitising is to be connected to a continuous supply of hot and cold potable water and to an approved drainage system.
- Sinks must be supplied with water at a temperature of not less than 43°C for washing and 80°C for sanitising (if sanitising takes place in the sink).

### Double and triple compartment sinks

- Where a double or triple compartment sink is used for hot water sanitising, rinsing baskets and heating elements capable of maintaining the water temperature at a minimum of 80°C are to be provided.
- Loading space and draining or drying space is to be provided.

### Dishwashers and glass washers

Dishwashers and glass washers must meet the following requirements:

- Be capable of completely washing and rinsing in one operation;
- Be designed so that all utensils, after rinsing, are dry by the end of the operating cycle;
- Be fitted with control devices to ensure the machine will not operate until the rinsing water is at the required temperature;
- Brushes are not permitted as part of the mechanism;
- Utensils to be rinsed for at least 10 seconds with:
  - \* water at a minimum of 50°C containing a minimum of 50mg/kg sodium hypochlorite; or
  - \* water at a minimum temperature of 80°C.
- Be fitted with a thermometer clearly visible to the operator indicating temperature for the washing and rinsing operation or be fitted with an automatic pilot light visible to the operator which indicates that the water in the heating device has reached the correct temperature ;
- Be equipped with a water heating device or be supplied with water from an individual hot water source;
- Be provided with an approved exhaust ventilation system;
- Be designed to use chemical sanitisers;
- Rinsing to ensure no chemical residue remains.

### Double bowl sinks

Double bowl sinks must have the following requirements:

- Be constructed of stainless steel ;
- Have a bowl size that enables the largest pots to be cleaned;
- Have a minimum bowl size of 450mm x 300mm x 300mm to enable cleaning of large pots and equipment ;
- Be fitted with a draining area at each end
- Have a splash back as part of the unit, 300mm up the wall ;
- Where draining racks are provided above sinks, they must be of stainless steel construction (preferable to have walls behind a drainage rack of stainless steel sheeting or tiles to prevent damage to the wall).

### Food preparation sinks

- Where food preparation requires the washing of food and immersion in water, a separate sink must be provided for this purpose. It must be separate from all other sinks.

## Equipment for food preparation and storage

### Minimum requirements

#### Temperature gauges

- Hand held probe thermometers that measure to +/- 1°C are to be used to measure the internal temperature of the food.

#### Chilled and frozen storage

- All cold storage and cold display equipment must be large enough for the business to adequately store cold food.
- All cold storage and display equipment must keep food at a temperature of 5°C or less.
- Refrigerators, cold rooms and blast chillers must be capable of reducing the temperature of potentially hazardous food in accordance with Food Safety Standard 3.2.2 (Food Safety Practices and General Requirements).
- Freezers are to keep food frozen.
- The recommended temperature for frozen food is at least -15°C.

#### Cold and frozen storage rooms

- Cold and frozen food storage room walls are to be lined with a smooth and impervious material and all joints sealed.
- Floors are to be a smooth and impervious material, and coved at the floor to wall junction.

- Floors are to be graded to the door opening and to a floor waste located outside the room, both of which are connected to the sewerage network or effluent disposal system.
- Doors must be able to be opened from the inside and an alarm fitted in accordance with the Building Code of Australia.
- Shelving is to be made of galvanised piping (with sealed ends), stainless steel or other suitable materials as approved by Council; must be easy to remove for cleaning; is clear of walls for cleaning and maintenance; and the lowest shelf must be off the floor to allow for easy cleaning.
- Cold and freezer rooms are to be located away from the wall to enable access for cleaning, or sealed to the walls to prevent harbourage of vermin.
- Voids above cold and freezer rooms are to be vermin-proofed.
- External cold and freezer rooms are not permitted unless an approved enclosed access is provided (bulk cold/freezer stores and packaged food are exempt from this requirement).
- Motor units must be located external to the premises or, if located inside the food premises, must be supported on metal legs to allow for easy cleaning.

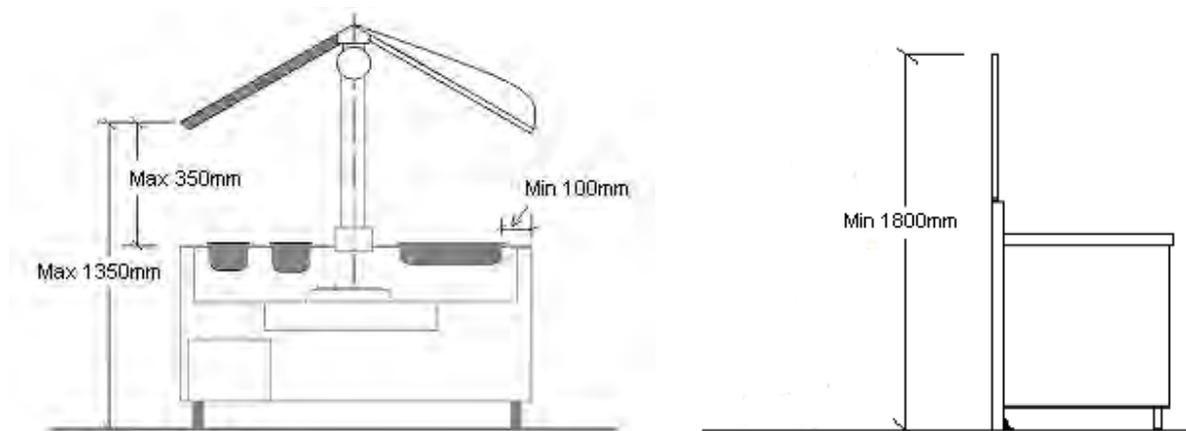
### Preparation, cooking, and hot and cold display

All equipment for preparation, cooking and display must be constructed to be easily and effectively cleaned with no open cracks, crevices and joints where food and liquids can collect.

### Benches, tables and preparation counters

- Benches and tables are to be constructed of laminated plastic or stainless steel with vermin-proof joints.
- Benches located against a wall must be sealed to the wall with an appropriate material, with benches subject to heat lined with stainless steel.
- Sandwich counters, used to prepare food in front of customers, must be fitted with a protective barrier between the customer and the food.
- Preparation benches and cooking equipment less than 1.5m from customers must be fitted with sneeze guards constructed of glass or perspex, and designed to prevent contamination from customers.
- Equipment placed on bench tops must be easy to move by one person or sealed to the bench top.

Figure 5 Examples of approved sneeze guards or protective barriers on salad bars and food preparation bench



### **Cooking equipment**

- Stoves and cooking appliances are to be kept clear of walls to enable access for cleaning or built into walls and completely vermin-proofed.
- Appliances must be either:
  - \* placed apart to prevent grease and food accumulation
  - \* placed together with the gap between the appliances flashed or sealed to prevent food, liquid or grease accumulating, or placed on castors to allow the appliance to be moved for cleaning.
- Appliances must be kept clear of cupboards or benches not used in connection with the cooking operation.
- Deep frying equipment must be thermostatically controlled to prevent a fire hazard from the overheating of cooking oils.
- Where cooking is carried out, the premises must be equipped with a suitable fire extinguisher or fire suppression system located near the cooking equipment.

### **Miscellaneous**

- Post-mix/syrup and ice machines must be located in a fully-lined and sealed food grade room (ie they must not be stored outside the food premises or in the open).
- Food conveyors must be constructed of smooth impervious surfaces, free from cracks, crevices and open joints, with access provided for easy cleaning.

### **Display cabinets**

- Sliding doors to display cabinets must have bottom guides or runners terminating not less than 25mm from each end of any door opening for easy cleaning.
- Self-service food bars must be fitted with sneeze guards designed to prevent contamination (from a customer's mouth or nose) affecting the food.
- Window displays of wet foods, such as meat and fish, must be covered at all intersections and installed in accordance with Australian Standard/New Zealand Standard 3500.2.2 (Plumbing and drainage - Sanitary plumbing and drainage).

### **Supports for equipment**

Including plinths, the following can be used to support heavy equipment:

- Metal legs - are to be smooth and sealed to prevent the access of vermin, and be approximately 150mm high for easy cleaning.
- Castors or wheels - must be capable of supporting and moving fully-loaded equipment.
- Brackets - sinks, tubs, wash basins, tables, benches, shelving and similar fittings must be supported on stainless steel, galvanised tubing with sealed ends or solid steel brackets securely fixed into the wall or on approved frames.
- Unsealed timber frames and supports are not permitted.

### **Shelving**

- Must be smooth and non-absorbent; free from joints, cracks and crevices; and able to be easily cleaned.
- The lowest shelf must be off the floor to allow easy cleaning underneath.
- Approved materials must be used, such as galvanised piping, stainless steel and laminated plastic.
- Shelves are to be sealed to the wall or kept clear of walls to allow easy access for cleaning.

### **Windows and ledges**

- Should be located at least 300mm above the bench, sink or hand basin.
- Ledges must be splayed at a 45° angle to prevent accumulation of dirt, food and grease.

### **Cupboards and cabinets**

Where free standing, all surfaces including the back are to be smooth and washable.

### **Best practice**

#### **Temperature gauges**

- Temperature gauges must be accurate to +/- 1°C and must be fitted to each hot and cold storage or display unit; must be clearly visible and fitted to show the internal operating temperature in the:
  - \* coolest part of the appliance for hot display
  - \* warmest part of the appliance for cold storage and display
  - \* areas above cold/freezer rooms.

### **Areas above cold/freezer rooms**

- The area above cold/freezer rooms (if exposed) must be fully-enclosed with vermin-proof access

hatches to allow pest control treatment to be undertaken.

## 8. Lighting

### Food Safety Standard 3.2.3 (Food premises and equipment), Division 2, Clause 8

#### Required outcome

Food premises must have a lighting system that provides sufficient natural or artificial light to enable staff to conduct activities safely within the food premises.

#### Minimum requirements

##### Lighting system

A food premises must provide sufficient lighting to adequately illuminate all areas of the food premises to enable food handlers to:

- readily see whether areas and equipment are clean;
- detect signs of pests ;
- clearly see the food and equipment they are handling.

##### Light fittings

In areas where open food is handled or stored, light fittings must be designed with the following specifications:

- Light bulbs/tubes are to be shatter-proof or fitted with approved light diffusers (covers or shields) to prevent contamination of food by glass from a broken light globe/tube;
- Light fittings must be free from any feature that would harbour dirt, dust or insects, or make the fitting difficult to clean;
- Light fittings must be recessed into ceilings or equipment where possible;
- Heat lamps must be protected against breakage by a shield extending beyond the bulb.

It is recommended that the following lighting levels be provided at working height.

**Table 3 Minimum illumination (lux) for food premises**

Activity	Illumination level (lux)
Food preparation areas	500
Food and equipment storage areas	110-150
Dish washing, hand washing and toilet areas	200-300



**Important:** Adequate lighting promotes cleanliness by facilitating the identification of unclean areas. Light diffusers (covers or shield) prevent contamination of food from glass fragments in the event of breakage.

## 9. Ventilation

### Food Safety Standard 3.2.3 (Food premises and equipment), Division 2, Clause 7

#### Required outcome

Food premises must have sufficient natural or mechanical ventilation to effectively remove fumes, smoke, steam and vapours from the food premises.

**Handy hint:** Always consider mechanical extraction systems when building new premises or renovating existing premises, as it is more expensive and inconvenient to install these systems once the business is operating.

#### Minimum requirements

##### Natural ventilation

- Natural ventilation is only suitable where there is little or no cooking that generates steam or greasy air.
- The premises must have openings, such as doors, windows and/or vents.

##### Mechanical ventilation

All food preparation areas where odours, fumes, smoke and steam are produced require a mechanical ventilation system that complies with Australian Standard 1668.1-2002 (The use of ventilation and air-conditioning in buildings – Part 1) and Australian Standard 1668.2-2002 (The use of ventilation and air-conditioning in buildings – Part 2) where:

- any cooking apparatus has:
  - \* a total maximum electrical power output exceeding 8kW; or
  - \* a total gas power input exceeding 29MJ/h; or
  - \* the total maximum power input to more than one apparatus exceeds:
    - 0.5kW electrical power for each 1m<sup>2</sup> of floor area of the room or enclosure; or

- 1.8 MJ gas for each 1m<sup>2</sup> of floor area of the room or enclosure;
- dishwashers and other washing and sanitising equipment that vent steam into the area to the extent that there is, or is likely to be, condensation collecting on walls and ceilings;
- equipment installed on the premises after the mechanical ventilation system has been designed and installed must not impair the efficiency of the system or the natural ventilation.

### Filters

Canopies are to be fitted with grease filters which can be removed for easy cleaning. The filter must comply with Australian Standard 1668-2002 (The use of ventilation and airconditioning in buildings) and the non-combustible requirements of Australian Standard 1530.1-1994 (Methods for fire tests on building materials, components and structures).

### Food premises exhaust hood airflow

The food premises exhaust hood airflow will depend on the:

- hood type;
- cooking process;
- length of the hood;
- inside perimeter of the hood over all exposed sides ;
- height of the hood above cooking appliances.

To determine the food premises exhaust hood airflow, refer to sections 5.5 and 5.6 of Australian Standard 1668.2-2002 (The use of ventilation and air conditioning in buildings - Part 2).

### Storage racks

Storage racks are not to be fitted above cooking and heating equipment as they can obstruct the airflow.

### Discharge point

- Effluent discharge is to be vertical at a minimum velocity of 5m/s at the discharge point.
- The point of discharge is to be:
  - \* 1m above the ridge of a pitch roof
  - \* 3m above a flat roof
  - \* 6m from a property boundary
  - \* 6m from any air intake, natural ventilation or opening.

- Exhaust systems with a flow rate not exceeding 1000L/s may receive a relaxation on the location of the discharge point.
- No exhaust can discharge over adjoining properties or where the discharge is less than 3m above any pedestrian thoroughfare including an accessible roof area.
- Exhaust ventilation for wood-fired and solid fuel cooking equipment needs to be separate to other ventilation systems and must not be combined with system serving grease appliances, or oil generating or oil-heat appliances.

### Dining areas

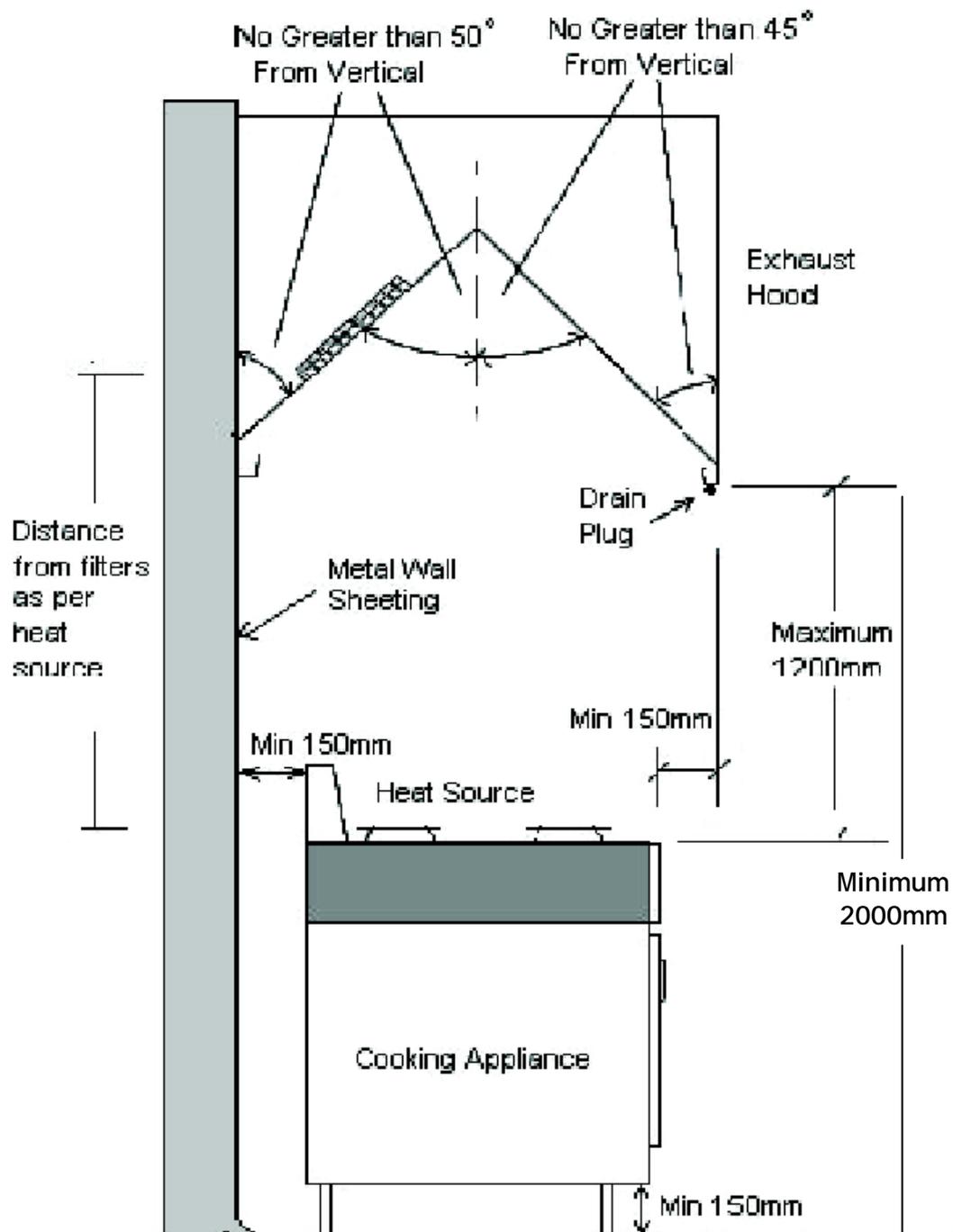
Dining areas must be ventilated by natural or mechanical methods in accordance with the Building Code of Australia and Australian Standards.

### Domestic premises

In domestic premises, the type and size of cooking appliances is usually not within the scope of Australian Standard 1668-2002 (The use of ventilation and air conditioning in buildings). Domestic mechanical systems are usually sufficient to remove greasy fumes produced by cooking. Contact Council for advice on the right mechanical ventilation before installation. The system needed will depend on the type of food business you will be operating and the amount of cooking being done.

**Handy hint:** Ventilation for Bed & Breakfast (B&Bs) and homestay accommodation at domestic premises does not apply to businesses, such as caterers or temporary food stall operators, using domestic premises for commercial cooking operation. Commercial operations must comply with the same requirements as other food premises.

Figure 6 Example plan of a mechanical ventilation system (not to scale)



## 10. Hand washing facilities

### Food Safety Standard 3.2.3 (Food premises and equipment), Division 4, Clause 14

#### Required outcome

The food premises must provide hand washing facilities located where they can be easily accessed by food handlers and:

- within areas where food handlers work if their hands are likely to be a source of contamination;
- immediately adjacent to the toilets.

Hand washing facilities must be:

- permanent fixtures
- provided with warm potable water
- a size that allows effective hand washing
- clearly designated for washing of hands, arms and face only.

#### Minimum requirements

Thorough washing and drying of hands is an essential activity in a food business to reduce the risk of food contamination and food-borne illness.

Hand washing basin(s) and facilities must be:

- located within an adequate distance, no more than 5m unobstructed from all food handling areas;
- located in or immediately adjacent to toilets
- provided with warm water delivered through a single outlet;
- provided with an adequate supply of liquid soap in a suitable dispenser in the immediate area;
- provided with single-use paper towels and suitable dispenser in the immediate area of the hand basin;
- of a suitable size to allow cleaning of hands and arms, with a minimum basin size of 11L capacity and/or dimensions of 500mm x 400mm, and must be installed at bench height and appropriately fixed to the wall;
- provided with an impervious splashback no less than 300mm high;
- unobstructed by any other equipment and easily accessible ;
- not located under benches, ie an appropriate bench height is usually 900 mm off the floor.

Splashguards may be required to prevent contamination of nearby equipment, benches or

other areas from the hand washing facility. Rubbish containers located in the immediate area for the disposal of paper towels must be located and designed to prevent contamination of adjacent food contact surfaces, food, utensil cleaning and storage.

#### Best practice

Hand washing facilities at best must:

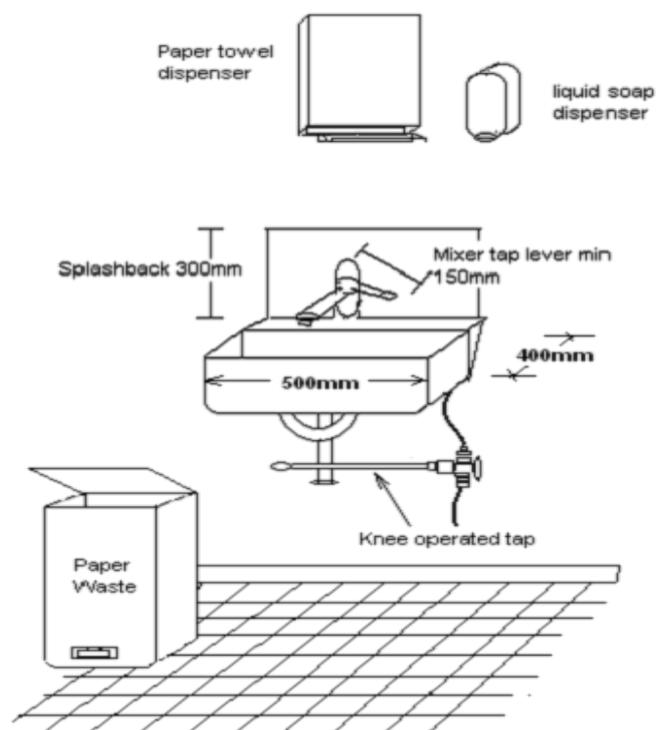
- be located at staff entrances to the food premises
- have a self-closing or metered tap to provide a flow of water for at least 15 seconds without the need to reactivate the tap
- have sensor taps
- be equipped with flow restrictors to reduce water consumption
- be provided with hands free devices (such as a knee operated lever) or single lever taps.

**Handy hint:** Signage at hand wash basins, “**HAVE YOU WASHED YOUR HANDS?**” and/or “**HAND WASHING ONLY**”, is often a great reminder for staff. Signage must be sealed to walls to prevent pest harbourage.

#### Exemptions

Food premises selling pre-packaged food only are not required to provide hand washing facilities.

Figure 7 Typical hand washing facilities



## 11. Toilet facilities

### Food Safety Standard 3.2.3 (Food premises and equipment), Division 5, Clause 16

#### Required outcome

A food business must ensure that adequate toilets are available for the use of food handlers working for the food business.

#### Minimum requirements

A food premises must comply with the requirements of the Building Code of Australia for provision of toilet facilities, including:

- numbers of toilets;
- staff and public toilet facilities to be equipped with appropriate hand washing facilities;
- toilet facilities to be clean and operate properly
- toilets located within the food premises to be separated from areas where open food is handled, displayed or stored by an air lock equipped with self-closing doors, or fitted with self-closing doors and provided with mechanical ventilation that operates when in use and thirty (30) seconds after the cubicle is vacated.

#### Best practice

- Separate toilet facilities for both staff and customers must be provided.
- Toilet systems with ultra-low flush or dual flush toilets must be provided to reduce water consumption.
- Sensor controlled flush systems to male urinal must be installed to reduce wastewater consumption.
- Water-saving faucet aerators in public restrooms must be installed.

## 12. Water supply

### Food Safety Standard 3.2.3 (Food premises and equipment), Division 2, Clause 4

#### Required outcome

Food premises must have an adequate supply of potable water for any activities involving food preparation, personal hygiene, cleaning and sanitising. (Potable water is safe drinking water that is fit for human consumption.)

#### Minimum requirements

A food premises must meet the following criteria:

- Constant hot and cold water must be available at all times, including during periods of high demand/usage;
- Running potable water under pressure must be provided in sufficient quantity to carry out all food preparation, utensil washing, hand washing, cleaning and other water using operations;
- Warm water (ie hot and cold water provided through a single outlet) must be provided at all hand washing facilities to ensure effective hand washing procedures;
- Hot water unit(s) that is capable of providing an adequate supply of hot water must be installed and located outside the food preparation area where possible;
- Hot water must be a sufficient temperature to effectively clean and sanitise equipment (see section on “Fixtures, fittings and equipment”);
- Hot water that is provided to dishwashers must be supplied as per the manufacturer's guidelines, e.g. sufficient pressure.

**Handy hint:** In order to conserve water and reduce costs, installation of flow control regulators or tap aerators is recommended. Water efficient tapware and low volume pre-rinse trigger sprays will also help save money and water.

## 13. Sewage and wastewater disposal

### Food Safety Standard 3.2.3 (Food premises and equipment), Division 2, Clause 5

#### Required outcome

The food premises must have a sewage and wastewater disposal system that effectively disposes of sewage and wastewater, and is designed and located so that it does not contaminate food or the water supply.

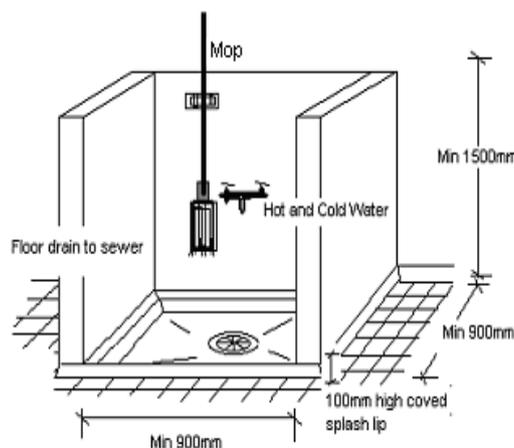
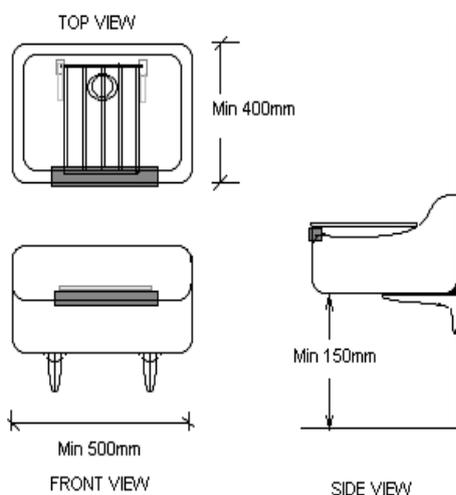
#### Minimum requirements

Food premises must provide appropriate facilities and plumbing infrastructure to ensure that sewage and all wastewater generated are disposed of appropriately. The food premises must be designed in accordance with the following criteria:

- The design (hydraulics plans) and installation of sanitary plumbing and drainage must comply with Australian Standard 3500.2.2 (Plumbing and drainage - Sanitary plumbing and drainage) and be approved by Council's plumbing section;
- Installation and maintenance of a grease trap designed to filter various oils generated from the food business operations (where applicable) is required. The installation and maintenance of a grease trap requires a Trade Waste Permit. For more information, contact Council;
- Wastewater generated from mop buckets, cleaning mops and other cleaning activities must be disposed of in a cleaner's sink or other approved facility;
- Access openings to the sanitary drainage system and grease traps must not be located in areas where there is a risk of food contamination;
- A food premises may utilise an approved drainage system for external waste storage to dispose of contaminated liquid waste;
- Cool rooms require the installation of external floor waste drains adjacent to the door to allow effective floor cleaning procedures;
- Equipment generating liquid waste must be connected to an approved tundish for correct discharge, e.g. cold room evaporative units/liquid-holding hot boxes, or removed in some other approved manner.

**⚠ Important:** cross-connections and backflow can contaminate the potable water supply.

**Figure 8 Examples of cleaner's sink**



**Basin to be constructed of a smooth and impervious material**

## 14. Storage of rubbish and recycling materials

**Food Safety Standard 3.2.3 (Food premises and equipment), Division 2, Clause 6**

### Required outcomes

Food premises must have facilities for storage of rubbish and recycling materials that:

- are adequate to contain the volume and type of refuse on the food premises
- enclose the refuse to prevent access by vermin and animals;
- are designed to be easily and effectively cleaned.

### Minimum requirements

**Rubbish and recycling storage must:**

- be adequate for the volume and type of waste produced by the business;
- be able to be easily cleaned;
- not provide a breeding ground or attract pests and vermin;
- include an external area or a refuse room specifically for the storage of waste containers.

**External refuse and recycling storage must be:**

- paved with an impervious material;
- graded and drained to the sewer;
- covered and provided with a hose and tap connected to a water supply;
- able to be easily cleaned;
- capable of storing the rubbish generated from the business, e.g. wet waste, cardboard and general dry wastes, bulk waste oil.

Consideration must be given to the location of waste storage areas and to their potential nuisance implications on neighbouring properties.

#### **Rubbish rooms (where installed)**

- Must be pest and vermin-proof.
- Must be constructed of a solid material and cement rendered to a smooth surface.
- Floors and walls are to be of an impervious material and coved at the intersection.
- The floor is to be graded and drained to an approved floor waste.
- Ventilated by natural or mechanical systems. If mechanical ventilation is used, it must comply with Australian Standard 1668-2002 (The use of ventilation and air conditioning in buildings - Parts 1 and 2).
- Fitted with a hose and tap connected to the water supply.
- Best practice – promotes these areas to be air-conditioned to minimise nuisance.

#### **Rubbish and recycling containers**

- Must be constructed of an impervious material such as metal or plastic.
- Fitted with tight fitting lids.
- Maintained in good condition to prevent the access of pests and vermin.
- Garbage chutes must be constructed of impervious durable material, fitted and generally comply with Councils Waste Management Policy.
- Bins that cannot be lifted for cleaning are to have drainage bunds at the base.

## 15. Storage facilities

### **Food Safety Standard 3.2.3 (Food premises and equipment), Division 5, Clause 15**

#### **Required outcomes**

Food premises must have adequate storage facilities for items that are likely to be the source of food contamination, including chemicals, clothing and personal belongings.

Storage facilities must be located where there is no likelihood of stored items contaminating food or food contact surfaces.

#### **Minimum requirements**

##### **Dry goods and food packaging materials**

Adequate storage must be provided for dry goods and packaging materials in a sealed and lined, vermin-proof room with approved flooring.

##### **Cleaning chemicals and equipment**

Chemicals, cleaning equipment, pest control chemicals and equipment are to be:

- enclosed in cupboards located away from the preparation and storage of food where there is no likelihood of stored items contaminating food or food contact surfaces;
- designated for that use only.

##### **Clothing and personal effects**

Adequate facilities must be provided for staff to store personal belongings and consist of either:

- a change room; or
- enclosed cupboards for the storage of clothing and personal belongings and located away from the food preparation and storage areas.

##### **Office materials**

Storage of paper work and other materials associated with the administration of the business must be stored in a room designated for that use or in enclosed cupboards or drawers designated for that use.

## 16. Temperature measurement

### **Food Safety Standard 3.2.2 (Food premises and equipment), Division 6, Clause 22**

#### **Required outcome**

A food business where potentially hazardous food is handled must have a temperature monitoring device that:

- is readily accessible;
- can accurately measure the temperature of potentially hazardous foods.

#### **Minimum requirements**

All food premises where potentially hazardous foods are stored must have a temperature measuring device with an accuracy of +/- 1°C and be easily accessible at all times.

An example of a suitable thermometer includes:

- stainless steel digital probe thermometer that can be placed into food to accurately measure core temperatures;
- thermometer which can be easily and effectively cleaned and, when necessary, sanitised.

A thermometer can be cleaned by rinsing the probe under warm water; sanitised by alcohol wipes or similar proven method.

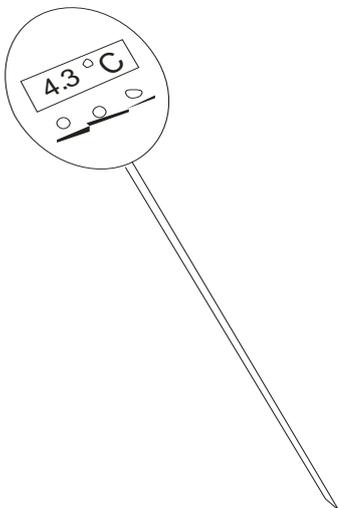
### Best practice

- A stainless steel digital probe to measure the core temperature of the food.
- An infrared thermometer to measure the surface temperature only of the food without touching the food.
- Externally mounted, highly visible temperature gauges on all refrigeration and heating equipment.



**Important:** A food business is required to maintain the temperature of potentially hazardous food either at or below 5°C or at or above 60°C (in accordance with the manufacturer's instructions) during transport, storage and display. Documenting temperatures of products on a daily basis is a great way to ensure food safety in your premises.

**Figure 9 example of temperature measuring device accurate to +/- 1°C**



## 17. Food transport

### Food Safety Standard 3.2.3 (Food premises and equipment), Division 3, Clause 10

#### Required outcome

- Vehicles used to transport food must be designed and constructed to protect food if there is a likelihood of food being contaminated during transport.
- Parts of the vehicle and food contact surfaces used during transport must be designed and constructed so that they can be effectively cleaned.

#### Minimum requirements

- Food must always be transported in a way that minimises the risk of contamination.
- Food transport vehicles that store potentially hazardous food must be capable of maintaining product at required temperatures at or below 5°C and at or above 60°C.
- The design of a food transport vehicle and containers must allow for easy cleaning procedures and protect transported food against contamination.
- Food transport vehicles must be approved by Council.

## 18. Bed & breakfast (B&Bs) and homestays

#### Required outcome

B&Bs and homestays providing meals as part of the business also need to comply with the food standards in this guide. These types of premises often accommodate a small number of people and do limited amounts of cooking. For this reason, alternative solutions can be applied to these businesses.

#### Minimum requirements

##### Walls

Must be smooth, impervious and easily cleaned. An example of an alternative is well-painted materials, such as tongue-and-groove. While this is not acceptable in commercial operations, minor alterations could make this material adequate for B&Bs and homestays.

**Floors**

Must be smooth, impervious and easy to clean. Materials, such as polished cork and polished floorboards, are acceptable.

**Benches and cupboards**

Domestic style benches are acceptable if they are in good condition and have impervious surfaces.

**Hand wash basins**

A basin for hand washing must be located in or close to the food premises. These basins must have a supply of warm water.

**Dishwashing**

Two methods can be used for dishwashing: a double bowl sink, or a dishwasher and a single bowl sink.

**Ventilation**

Refer to the section on "Ventilation".

## 19. Further information

Refer to the complementary documents for further information regarding safe operation of a food premises:

- Fixed food premises checklist;
- Glossary for food business.

For more information regarding setting up your food business in the Tweed Shire refer to Council's **Small Business Guide – Food business (retail)**.

[www.tweed.nsw.gov.au/FoodBusinesses](http://www.tweed.nsw.gov.au/FoodBusinesses)

**Links**

For information regarding starting and operating a small business go to Council's **Small Business Gateway**.

[www.tweed.nsw.gov.au/BusinessGateway](http://www.tweed.nsw.gov.au/BusinessGateway)

For more information regarding development approvals for businesses go to Council's **Planning Assistance for Business** web page.

[www.tweed.nsw.gov.au/SmallBusiness](http://www.tweed.nsw.gov.au/SmallBusiness)

**Council forms**

[www.tweed.nsw.gov.au/Forms](http://www.tweed.nsw.gov.au/Forms)

**Food safety standards**

[www.foodstandards.gov.au/industry/safetystandards/pages/default.aspx](http://www.foodstandards.gov.au/industry/safetystandards/pages/default.aspx)

**Food Authority**

[www.foodauthority.nsw.gov.au/](http://www.foodauthority.nsw.gov.au/)

## 20. Council contacts

**Customer service**

For all environmental health, compliance, planning and general queries, call our customer service number between 8.30am - 4.30pm Monday – Friday on:

**(02) 6670 2400 or 1300 292 872**

Written enquiries will be provided with a response within 14 days and may be sent to:

**tsc@tweed.nsw.gov.au**

**Council office locations**

To speak with Environment Health, Planning or Building staff visit the Council Office between 8.30am - 4.15pm Monday - Friday located at the:

**Murwillumbah Civic and Cultural Centre  
Tumbulgum Road, Murwillumbah**

## 21. Appendix 1 Key definitions

### **Adequate supply of water**

Potable water available at a volume, pressure and temperature adequate for the purposes for which the water is used.

### **Australian/New Zealand Standards**

Australian Standard/New Zealand Standards are documents which are referenced by legislation to provide more detail on requirements and technical procedures. These standards can be purchased from Standards Australia on 1800 035 822 or by visiting its website at [www.standards.org.au](http://www.standards.org.au).

### **Bed & Breakfasts (B&Bs)**

A dwelling providing commercial, short-term guest accommodation for up to six people.

### **Coving**

A curved junction between the floor and the wall.

### **Easily moveable**

Equipment that can be moved by one person (either on wheels, castors or sitting on the surface) to enable cleaning as often as necessary to ensure that, for example, food debris can be swept from underneath and the floor mopped. If the equipment cannot be easily moved, a clearance space must be provided so the surrounding area and beneath the equipment can be cleaned without moving.

### **Equipment**

Means a machine, instrument, apparatus, utensil or appliance - other than a single use item - used or intended to be used in or in connection with food handling, and includes any equipment used or intended to be used to clean the food premises or equipment.

### **Food business**

A business, enterprise or activity (other than primary food production) that involves:

- handling of food intended for sale; or
- sale of food regardless of whether the business enterprise or activity concerned is of a commercial, charitable or community nature or whether it involves the handling or sale of food on one occasion only.

### **Food premises**

Any premises including land, vehicles, parts of structures, tents, stalls and other temporary structures, boats, pontoons, including premises

used principally as a private dwelling, but does not mean food vending machines or vehicles used only to transport food.

### **Food Safety Standards**

These are part of the Food Standards Code and define requirements for food premises on food handling practices and the structural requirements of food premises.

### **Handling of food**

Includes the making, manufacturing, producing, collecting, extracting, processing, storing, transporting, delivering, preparing, treating, preserving, packing, cooking, thawing, serving and displaying of food.

### **Homestay**

A dwelling providing short-term guest accommodation for up to four people.

### **Potable water**

Water suitable (safe) for drinking.

### **Potentially hazardous food**

Food that has to be kept at certain temperatures to minimise the growth of any pathogenic micro-organisms that may be present in the food and/or to prevent the formation of toxins. This may include meat, seafood, dairy products, orange juice and cooked rice.

### **Primary food production**

Growing, cultivating, picking, harvesting, collecting or catching of food, including:

- transport or delivery of food on, from or between the premises on which it was grown, cultivated, picked, harvested, collected or caught;
- packing, treating or storing of food on the premises on which it was grown;
- any other food production activity prescribed by another Act.

### **Rinsing baskets**

Containers usually of wire or heat-resistant plastic or perforated steel that can be submerged in hot water to sanitise utensils.

### **Safe and suitable food**

Food is considered unsafe if it is likely to cause physical harm to a person who might later consume it, assuming they treated the food correctly after purchase. Food is considered unsuitable if it is damaged, deteriorated or perished

to an extent that affects its intended use, eg out of date, poor maintenance or poor storage of chemicals, or contains a substance that is foreign to the nature of the food, ie foreign matter or chemicals which may have fallen into the food.

### **Sanitising**

A process that significantly reduces the number of micro-organisms present on a surface. This is usually achieved by the use of both heat and water or by chemical sanitisers.

### **Sewage**

Discharge from toilets, urinals, basins, showers, sinks and dishwashers through a sewer or other means.

### **Sinks**

Includes sinks for food preparation, cleaner's sink, utensil and equipment washing, and personal hand washing basins.

### **Temperature control**

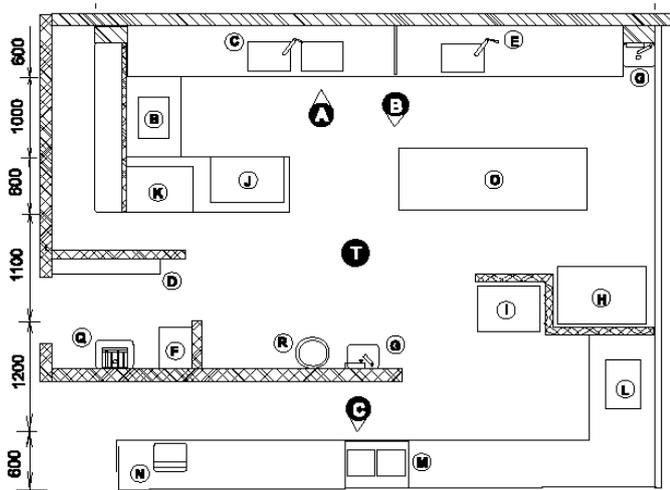
Maintaining food at a temperature of:

- 5 °C or below if this is necessary to minimise the growth of infectious or toxicogenic micro-organisms in the food so that the microbiological safety of the food will not be adversely affected for the time the food is at that temperature, or
- 60 °C or above, or
- another temperature - if the food business demonstrates that maintenance of the food at this temperature for the period of time for which it is so maintained will not adversely affect the microbiological safety of the food.

### **Warm water**

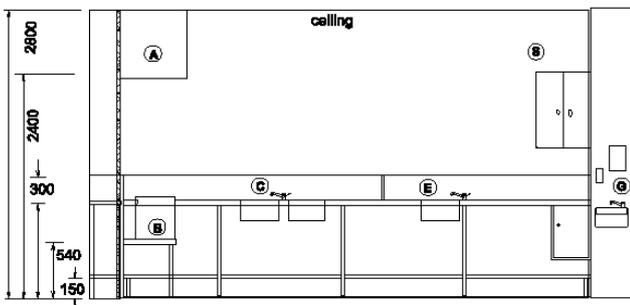
Not hotter than 50°C - to comply with Australian/New Zealand Standard 3500.4.2 (Plumbing and drainage: Part 4 – heated water services).

## 22. Appendix 2 Example plans



**FLOOR PLAN**

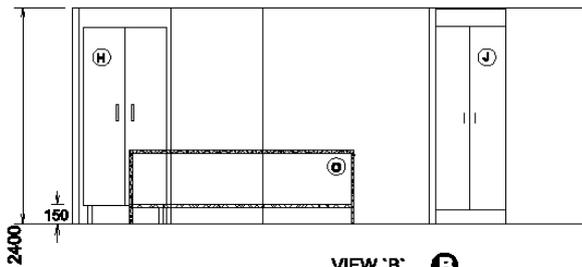
- A** Mechanical exhaust
- B** Fryer
- C** Stainless steel
- D** Staff personal effects storage
- E** Stainless food preparation sink
- F** Chemical storage unit
- G** Stainless steel hand wash basin 400mm by 500mm
- H** Upright scope commercial refrigeration unit
- I** Scope upright drinks fridge
- J** Dry goods pantry
- K** Commercial pie warmer
- L** Coffee
- M** Refrigerated display cabinet
- N** Cash register
- O** Stainless steel food preparation bench
- P** General waste bin
- Q** Cleaners sink
- R** Waste bin
- S** Storage cupboard
- T** Floor waste drain



**VIEW 'A'**

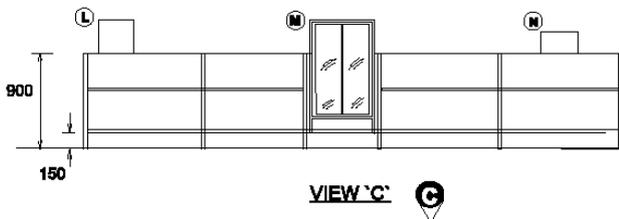
ceiling

- |               |  |
|---------------|--|
| Floors        | Ceramic tiles and coving to all walls.         |
| Walls         | Solid Construction.                            |
| Benches       | Stainless steel bench & frame.                 |
| Front Counter | Laminex bench top.                             |
| Ceiling       | Sealed plasterboard tiles gloss enamel finish. |



**VIEW 'B'**

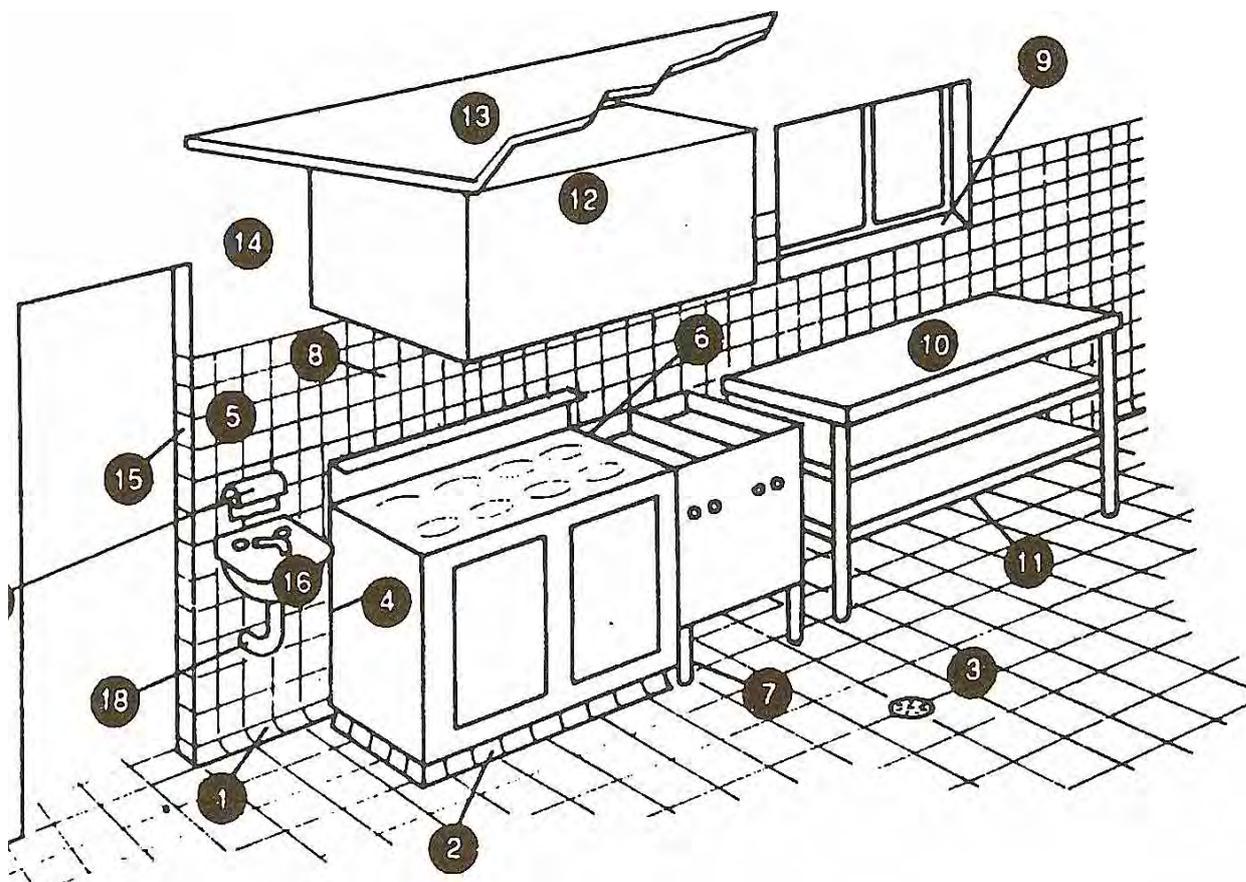
- PLUMBING** ss basin, knee operated mixer tepid & cold water ss sinks, lever mixer tap, hot and cold water.



**VIEW 'C'**

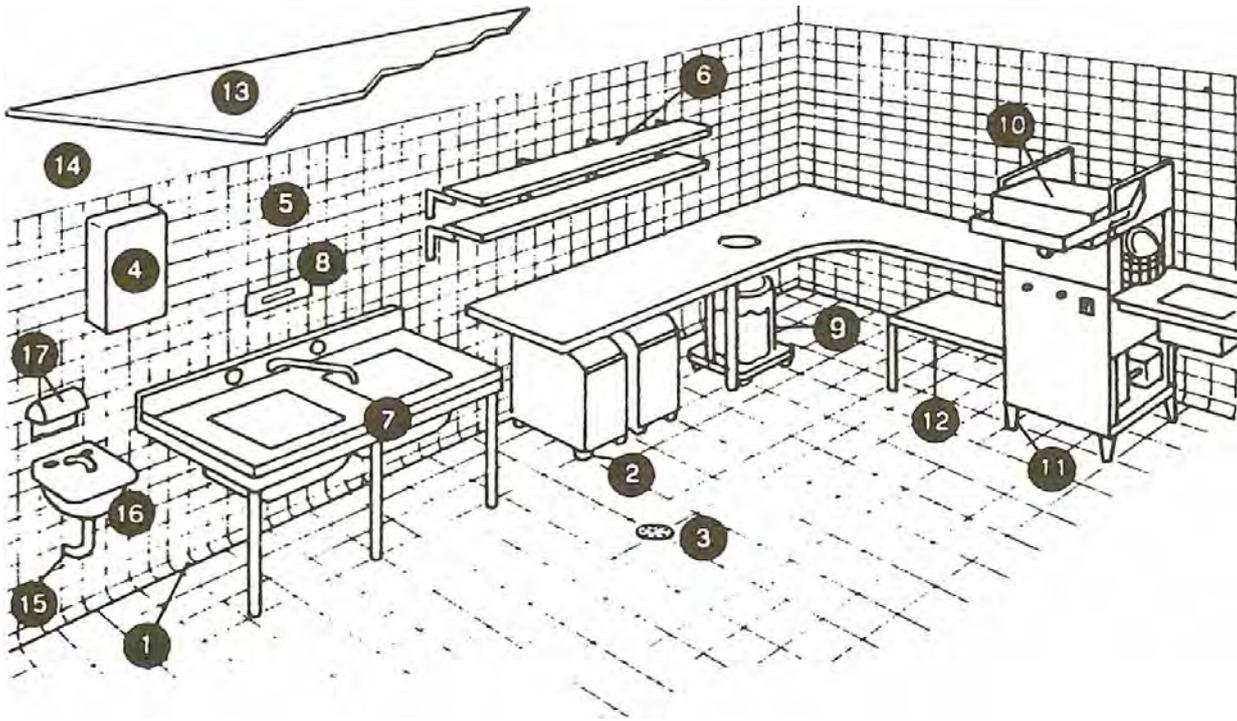
- BACKFLOW PREVENTION** Air gap to all tapware. Dual check valve to coffee machine.

## 24. Appendix 3 2D Example plans



### Requirements – Typical Food Preparation Area

1. Floor/wall covering as per section 5
2. Plinth not less than 100mm high
3. Impervious floor graded and drained
4. Fittings sealed to wall or 200mm clear of wall
5. Walls finished as per section 5
6. Sealing between fittings
7. Legs 150mm minimum
8. No storage shelves below canopy
9. Splayed windowsill 300mm above preparation bench
10. Preparation bench – steel framed
11. Bottom shelf – min 250mm above floor
12. Mechanical exhaust ventilation canopy
13. Rigid smooth faced ceiling
14. Smooth cement rendering
15. No timber door frames
16. Hand basin, hot and cold water mixing set
17. Soap and towel dispenser
18. Water and drainage pipes concealed in wall



### Requirements – typical wash-up area

1. Floor/wall coving
2. Casters to under-bench storage
3. Impervious floor graded and drained
4. Hot water heater sealed to wall
5. Walls finished as per section 7 of the Fit-out Guide
6. Shelving – 40mm clear of wall
7. Sink unit on metal frame
8. Thermometer
9. Garbage receptacle
10. Dishwasher with temperature indicating device
11. Legs - 250mm minimum
12. Bottom shelf - minimum 250mm above floor
13. Rigid smooth faced ceiling
14. Smooth cement rendering
15. Water and drainage pipes concealed into walls
16. Hand basin, hot and cold water mixing set
17. Soap and towel dispenser





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