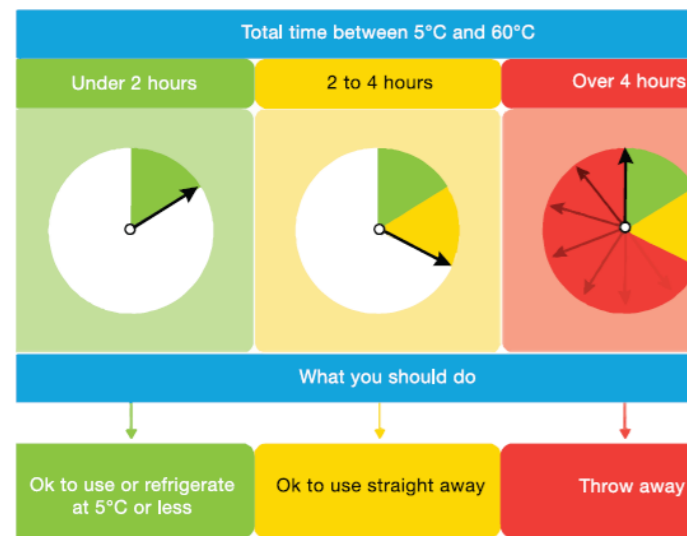


2-Hour / 4-Hour Rule for Ready-to-Eat Potentially Hazardous Food

The 2-hour/4-hour rule is a rule of thumb from the Australia New Zealand Food Safety Standards to help businesses deal with some of the practicalities of handling refrigerated ready-to-eat potentially hazardous food. It recognises there may be several circumstances where this type of food is brought out of refrigeration and held at temperatures above 5°C for convenience, for example while preparing food at a kitchen bench or displaying food for short periods.

The rule provides options for what can be safely done with ready-to-eat potentially hazardous food brought out of refrigeration, depending on how long it has been at temperatures above 5°C. If the total time is:

- Less than 2 hours, the food may be used, or refrigerated for later use
- Between 2 and 4 hours, the food may still be used
- 4 hours or longer, the food needs to be thrown out.



Why Use Shatterproof Bulbs?

Lights can be a source of food contamination in your food preparation & storage areas. If they shatter, glass and chemicals can get into food and onto your food preparation surfaces. For this reason, any lights in food preparation or storage areas, need to be covered or the bulbs used need to be shatterproof. Your inspecting Environmental Health Officer will check for these regularly on inspections.

Use by and Best Before Dates

Foods that must be eaten before a certain time for health or safety reasons should be marked with a use by date. Foods should not be eaten after the use by date and cannot legally be sold after this date because they may pose a health or safety risk.

Most foods have a best before date. You can still eat foods for a while after the best before date as they should be safe but they may have lost some quality. Foods that have a best before date can legally be sold after that date provided the food is fit for human consumption.

Foods that have a shelf life of two years or longer, e.g. some canned foods, do not need to be labelled with a best before date. This is because it is difficult to give the consumer an accurate guide as to how long these foods will keep, as they may retain their quality for many years and are likely to be consumed well before they spoil.

Types of Food Hazards

A food hazard is any agent that has the potential to pose a threat to human health or cause illness. When a hazardous agent comes in contact with food – it is called contamination. Food hazards are generally classified by their sources:

Biological Hazards – Includes bacteria, fungi, viruses and parasites. To protect your customers from biological food safety hazards, pay special attention to storing your raw, cooked, and ready-to-eat foods at the correct temperatures and in the correct way to prevent contamination and spoilage.

Physical Hazards – Any foreign object in food (e.g. hair, nail/metal fragments, dirt, etc.). Prevent your food from coming into contact with physical food safety hazards through proper storage procedures. It is also important for all staff to maintain proper personal hygiene so that they do not transfer physical food safety hazards to raw, cooked or ready-to-eat foods.

Chemical Hazards – Includes toxic metals, pesticides and certain chemical compounds in foods. Kitchen staff should also be wary of handling chemicals such as pesticides and cleaning products. Chemicals must be stored away from food.

Dry Goods Storage

Attention to detail is often found lacking in the dry goods storage area in kitchens.

There are a few simple rules that can keep dry goods safe, wholesome and nutritious for as long as possible.

- 1. Food Rotation**

All food items should be date coded, and the practice of “First-In; First-Out” should always be implemented. It is always good to keep a readily accessible record of the “use by” and “best before dates” of received foods and a general chart of the shelf life of various items.
- 2. Keep it Covered**

Store open products in clean, uncontaminated, sealable containers. All opened products must be sealed to prevent the entry of pests and other forms of contamination.

Bulk products such as sugar and flour can be emptied into tightly covered, properly labelled approved containers to prevent outside contamination. If a container is found to be damaged, the contents should be decanted into a sealable container. It is also good to note what foods require refrigeration once opened.
- 3. Temperature and Ventilation**

Storerooms should be kept cool, dry and well ventilated. The storage life of most foods are cut in half by every increase of 10°C, so it is best to keep the temperature of the storeroom between 10°C and 22°C. In addition, the storeroom should be free from un-insulated steam and water pipes, transformers, refrigerator condensing units and other heat-producing equipment.
- 4. Sunlight**

Avoid storing foods in direct sunlight. Sunlight promotes oxidation and therefore causes the loss of nutritional value and quality.
- 5. Date coding**

All dry good items must have some form of date coding. This is especially important when goods are decanted into re-usable containers. These containers should include the expiry date as well as the date on which the product was decanted into the container.

Common Food Safety Issues

If proper food safety principles are not followed, foodborne illness can occur. Often, managers or employees do not recognise that they may be contaminating the food they serve. In order to correct these behaviours, Environmental Health Officers inspect food businesses and discuss what needs to be corrected. Below are some common food safety issues and tips on how to correct them.

Improper Hand Washing:

Wet hands with warm water, apply soap, and rub hands together for a minimum of 20 seconds. Good hand hygiene is the first line of defence in preventing foodborne illness.

Improper Sanitising:

Keep foodservice equipment and food contact surfaces clean using proper washing and sanitising procedures.

Same Cutting Board:

Use separate chopping boards and utensils for raw and cooked/ready-to-eat foods.

Unsafe Food Holding:

Keep hot food hot, and cold food cold. Bacteria that cause food poisoning multiply quickest in the “Danger Zone” – between 5°C and 60°C.

Sick Employees Preparing Food:

Food workers should stay home when sick and for at least 24-48 hours after symptoms stop. Symptoms include but are not limited to: diarrhoea, fever, and sore throat.

Unsafe Food Storage:

Raw foods, such as meat, should never be stored above ready-to-eat foods like fresh fruit, salads, or desserts. The raw food may splash or drip onto the ready-to-eat food and result in cross-contamination.

Food Safety Websites

Please see below for some useful websites on food safety and regulation of food businesses:

- Queensland Health: <https://www.qld.gov.au/health/staying-healthy/food-pantry>
- Food Standards Australia & New Zealand: www.foodstandards.gov.au
- Safe Food Queensland: www.safefood.qld.gov.au
- Food Safety Information Council: www.foodsafety.asn.au