

KEEP YOUR HOME FREE FROM **DAMP, CONDENSATION AND MOULD**



This booklet gives some basic information about the different types of dampness that may affect your home.

Condensation is probably the biggest cause of damp in homes. A lot of information and advice is included in this booklet to help tenants and home-owners identify and reduce condensation as well as treating the mould growth often associated with it.

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Types of Dampness

There are four main types of dampness that could affect your home. It is important to understand the difference between them so that you can effectively treat the problem.

1. Rising Damp

This is caused by water rising from the ground into the home. The water gets through or round a broken damp proof course (DPC) or passes through the natural brickwork if the property was built without a DPC. A DPC is horizontal layer of waterproof material put in the walls of a building just above ground level. It stops moisture rising through the walls by capillary action.



Rising damp will only affect basements and ground floor rooms. It will normally rise no more than 12 to 24 inches above ground level (300mm to 600mm) and usually leaves a 'tide mark' low down on the wall. You may also notice white salts on the affected areas.

Rising damp will be present all year round but is more noticeable in winter. If left untreated it may cause wall plaster to crumble and paper to lift in the affected area.

Note. *Black mould will rarely be seen where there is rising damp (and then only in the early stages). This is because rising dampness carries with it ground salts which prevent the growth of black mould.*

2. Penetrating Dampness

This type of dampness will only be found on external walls or in the case of roof leaks, on ceilings. It only appears because of a defect outside the home, such as missing pointing to the brickwork, cracked rendering or missing roof tiles. These defects then allow water to pass from the outside to the inner surfaces.

Penetrating dampness is far more noticeable following a period of rainfall

and will normally appear as a well-defined 'damp-patch' which looks and feels damp to the touch.

Note. *Black mould is rarely seen on areas of penetrating dampness. This is because the affected area is usually too wet and the dampness contains salts picked up when passing through the wall, which prevent the growth of black mould.*

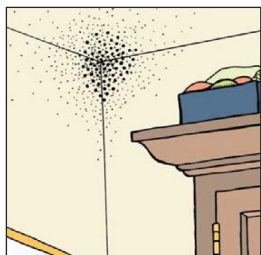
3. Defective Plumbing

Leaks from water and waste pipes, especially in bathrooms and kitchens, are relatively common. They can affect both external and internal walls and ceilings. The affected area looks and feels damp to the touch and remains damp whatever the weather conditions outside. A quick examination of the water and waste pipes serving the kitchen and bathroom and the seals around the bath, shower and sinks; plus the external pipework, such as guttering will usually find the source of the problem.

Note. *Black mould will rarely be seen on this type of dampness because the area is usually too wet and the chemicals in a waste water leak will prevent mould growth.*

4. Condensation

This is by far the most common cause of dampness experienced by tenants and householders, resulting in a large number of enquiries or complaints received by the Council.



Condensation is caused by water vapour or moisture from inside the dwelling coming into contact with a colder surface, such as a window or wall. The resultant water drops (condensation) may then soak into the wallpaper or paintwork or even plasterwork. In time, the affected damp areas then attract black mould that grows on its surface.

Condensation mainly occurs during the colder months, whether it is rainy or dry outside. It is usually found in the corners of rooms, north facing walls and on or near windows. It is also found in areas of little air

circulation such as behind wardrobes and beds, especially when they are pushed up against external walls.

Notes.

- *Black mould is frequently seen on this type of dampness.*
- *Condensation and Mould Growth*
- *Most homes will be affected by condensation at some point. However, certain activities can increase the problem.*
- *Condensation and mould growth may be due to the structure and features of the dwelling or the occupants knowledge and approach to moisture control and often both aspects play a part.*

Cooking, bathing, drying clothes indoors, even breathing - all produce water vapour that can only be seen when tiny drops of water (condensation) appear on colder surfaces such as walls, windows, ceilings or mirrors.

The 'amount' of condensation in a home depends upon three factors:

- 1. how much water vapour is produced by the actions of its residents**
- 2. how cold or warm the property is**
- 3. how much air circulation (ventilation) there is**

Simply turning up the heating will not sort out the problem, this may only temporarily reduce condensation. All three factors may need to be looked at to reduce the problem.

The first sign of a problem is water vapour condensing on windows and other cold surfaces, which then takes a long time to disappear, allowing surfaces to become damp. The second indication is black mould patches growing on these damp areas.

Black Mould Growth

Mould spores are invisible to the human eye and are always present in the atmosphere both inside and outside dwellings. They only become noticeable when they land on a surface upon which they can grow and then multiply.

For mould to thrive and survive it requires four elements:

- 1. **Moisture obtained from condensation**
- 2. **Food - such as wallpaper or emulsion paint**
- 3. **Suitable temperature - courtesy of the householder**
- 4. **Oxygen - courtesy of mother nature**

By dealing with the causes of condensation you will reduce the likelihood of further mould growth .

Six Steps to Reducing Condensation and Mould Growth

1. Produce Less Moisture

Common household moisture producing activities

Our everyday activities add extra moisture to the air inside our homes. Even our breathing adds some moisture. One person asleep adds half a pint of water to the air overnight and an active person adds twice that rate during the day.

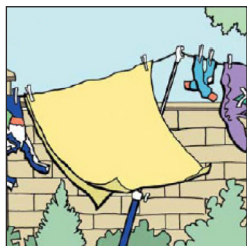
The illustration below gives you some idea of how much extra water you could be adding to the air in your home in a day:-

2 people at home (16 hours)	3 pints
A bath or shower	2 pints
Drying clothes indoors	9 pints
Cooking and use of a kettle	6 pints
Washing dishes	2 pints
Bottled gas heater (8 hours use)	4 pints

Ordinary daily activities produce a lot of moisture.

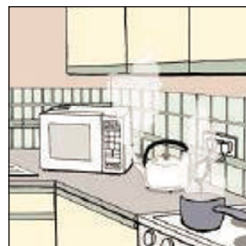
To reduce this:

- a) Dry clothes outdoors. Avoid drying clothes indoors or if you have to, dry them on a clothes airer in the bathroom with the door closed and either an extractor fan on or a window slightly open.

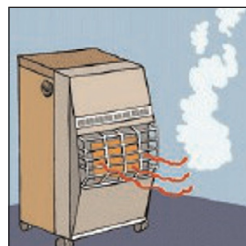


- b) Vent tumble driers to the outside (never into the home).

- c) Cover pans when cooking and do not leave kettles boiling, this not only reduces condensation but also saves money as pans with lids keep boiling at lower cooker settings.



- d) Do not use paraffin or liquid petroleum (bottled) gas heaters. They produce large amounts of water vapour and are very expensive to run!



2. Remove Excess Moisture



Open curtains or blinds as soon as possible.

Always wipe all glazing, windows, frames and window sills of your home whenever you can see any condensation.

If left wet regularly this will lead to mould growth

Dry wiping cloths in a room with the extractor fan on. Preferably a kitchen or bathroom with the door shut

3. Ventilate to Remove Moisture



It is important to remove condensation and excess moisture by ventilating rooms. You can ventilate a room without making draughts or causing it to become cold.

To do this, you may only need to open the window slightly or use the trickle vent that can often be found on new UPVC windows. This allows warm (but moist) air to escape to the

outside and let in cool (but dry) air.

- a) Use your extractor fans. It may take a couple of hours to dry bathroom walls and ceilings after bathing. Fans cost very little to run at approximately the same cost as a low energy light bulb. Consider running bathroom fans all day during cold weather periods to provide a healthy indoor environment. All rented properties should have bathroom and kitchen extractors fans.



- b) If you don't have extractor fans then always ventilate or open a window when using the kitchen or the bathroom with the doors closed to prevent moisture in the air from spreading to other parts of the house. Continue to ventilate these rooms until all surfaces are dry after a shower, a bath or cooking, and keep the door closed!



- c) Do not put anything close to external walls. If airflow is restricted condensation and then mould will form both on walls and on and within furniture and contents. Use a brick or block of wood behind legs of beds (for example) to stop them being pushed up against a wall
- d) Open curtains and expose window reveals to warm air as soon as possible. Curtains and blinds are good at keeping heat in but they then

keep the window and reveals colder. Condensation and mould will flourish.

- e) Open bedroom windows for up to one hour as soon as you arise and throw back the sheets or duvets to air the bed and bedding. Keep bedroom doors shut whilst windows are open.
- f) Clear window sills of clutter that will restrict opening the window.
- g) Ventilate cupboards, wardrobes and avoid overfilling them as this prevents air circulating.
- h) Do not completely block chimneys and flues – fit with an air vent and make sure you meet ventilation requirements for any gas appliances in a room.

4. Heat Your Home a Little More

In cold weather, the best way to keep rooms warm and avoid condensation is to keep low background heat on all day rather than short bursts of high heat when you are in the house.

Good heating controls on your radiators, room thermostats and a timer will help control the heating throughout your house and manage costs.

5. Insulate and Draught-proof

This will help keep your home warm and save money on your heating bills.

- a) Insulate the loft up to a depth of 10 inches (25cm). (a grant may be available)
- b) Consider secondary or double glazing.
- c) Consider wall insulation.
- d) Draught-proof windows and external doors.
When draught proofing, do not block permanent ventilators or rooms requiring ventilation.



6. Dealing with black mould

Black mould can grow on walls, ceilings, furnishings and even on clothes and toys, which can be depressing and expensive.

To kill and remove the mould:

- a) Carefully remove excess mould with a damp cloth and throw away after. Do not brush or vacuum mould as this releases spores into the air.
- b) Wipe down or spray affected areas using a fungicidal wash or diluted bleach. remember always use rubber gloves and wear safety glasses.
- c) Tea Tree oil is a natural antiseptic and disinfectant but it's also great for cleaning especially on mould or mildew. Try a dilute of three to four drops of Tea Tree oil in two litres of water (hot or cold). Soak mildewed items in the solution or spray on to trouble spots using a plant mister. Wipe, then rinse off. Always ensure you carry out a test on small area of the fabric/material/surface beforehand.
- d) After treatment redecorate using a fungicidal products if possible
- e) Dry clean mildewed clothes and shampoo carpets.

Remember...

Dealing with condensation is not easy. Only carrying out one or two of the above steps may not solve your problem. You need to do as many as possible every day, so that it becomes part of your routine.

Warmth Versus Ventilation

Striking the right balance between warmth and ventilation is important and can be very effective.

By opening windows a small amount or ventilating your home it may appear that you are losing some heat, but what you are actually doing is allowing warm moisture-laden air to escape and permitting cool dry air to enter your home. Dry cool air is actually cheaper to heat than warm moist air!

Many people who have double-glazing installed experience problems with condensation and mould growth that they never had with their old draughty window frames. This is because all the natural draughts around the poorly fitted windows have been sealed. However, by using trickle vents or opening windows slightly, then the necessary ventilation can be achieved.

Remember...

The advice is to ventilate for an appropriate period of time, not to leave the windows open all day.

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