



# maintaining your home

a householders' guide  
for northern ireland

# a householders' guide

This publication on home maintenance is intended to help all householders to manage and maintain their home, and keep repairs to a minimum. As the regional strategic housing authority for the province, the Housing Executive is responsible for housing conditions in the private sector as well as its own housing stock. We carry out regular house condition surveys in the private sector to ensure that grant aid is targeted at those in greatest need.

The biggest single investment a householder will make in their lifetime is likely to be the purchase of a home. The key to sustaining and enhancing the value of that asset is the regular checking and maintenance of the home in order that it continues to provide secure, warm, comfortable and long lasting accommodation. This booklet has three purposes therefore.

Firstly, it provides a checklist of possible problems in the general internal and external fabric of our homes and how to deal with them. Many of these defects can be resolved quickly and at low cost. Others may need more specialist professional support and advice. Speedy early action to deal with a repair can prevent more expensive bills later.

Secondly, home owners and home buyers are highly aware and are increasingly conscious of how home improvements can add to the function, comfort, safety, appearance and value of their property and some of these improvements may require planning approval, building regulation approval or both. Information is given as a guide as to the type of approval which may attach to either of those development control processes.

Thirdly, the booklet summarises the role of the building surveyor in house buying and the principal differences in the range of surveys which are available and can be specified and commissioned from a building surveyor.

# energy efficiency improvements to your home

Energy efficiency is about getting the maximum heat out of fuel used in your home, and taking simple low cost measures to reduce energy consumption.

Research shows that most households have the potential to save about £270 each year just by introducing a few simple steps to conserve energy, save money and stay warm! At the same time you will be doing your bit for the environment.

Information on discount schemes and grants available for insulation, draught-proofing and heating control programmes is available on Freephone: 0800 512 012.



# maintenance - a checklist of activity

Dampness, timber defects and movement are in their various forms the three greatest potential threats to the structure of the building. Maintenance to the exterior of the building is fundamental to ensure that the home is weatherproof. The checklist focuses on repair activity to the exterior then interior and in-curtilages aspects of garden work which can contribute to the security, safety and comfort of the home and its immediate environment.

# outside of the house



**what is wrong:**  
subsidence and  
damage to drainage

**possible causes:**  
trees too close to  
house have roots  
which may disrupt  
the drainage system  
or cause subsidence

**getting it fixed:**  
in planting make sure  
that there is a distance  
of at least  $\frac{2}{3}$  of the size  
of the mature tree and  
the building; a camera  
inspection will assist in  
locating the problem



**what is wrong:**  
(pitched roof)  
tiles/slates slipped  
or broken

**possible causes:**  
nails which have  
become corroded  
and break causing  
slipped or broken  
tiles

**getting it fixed:**  
refix slates in small  
groups by metal  
clips



**what is wrong:**  
(flat roof)  
blistering and  
bubbles in roof  
material

**possible causes:**  
old age, felt  
generally lasts 12  
years

**getting it fixed:**  
patch, repair or  
renew with modern  
high specification  
materials; added  
life, 30 years

# gutters and downpipes



**what is wrong:**  
overflowing/  
leaking

**possible causes:**  
blocked gutter and  
downpipe with  
debris/leaves

**getting it fixed:**  
clear blockage



**possible causes:**  
insufficient drop in  
gutter

**getting it fixed:**  
reset gutter



**possible causes:**  
insufficient number  
of downpipes

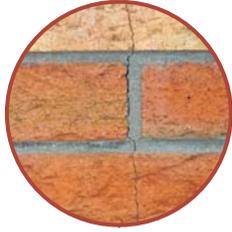
**getting it fixed:**  
add downpipes in  
appropriate  
locations



**possible causes:**  
downpipe ruptured

**getting it fixed:**  
replace downpipe

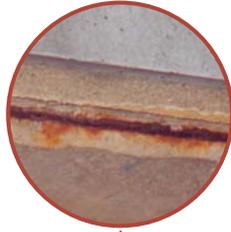
# external walls



**what is wrong:**  
cracks and hairlines  
through walls

**possible causes:**  
subsidence,  
settlement and  
shrinkage or failure  
of wall ties

**getting it fixed:**  
seek professional  
advice, dwelling  
may need under-  
pinning work



**possible causes:**  
steel lintels  
corroded over  
doors/walls

**getting it fixed:**  
chemical treatment  
of corrosion or  
renew lintels



**what is wrong:**  
cement rendering  
cracked

**possible causes:**  
rendering not keyed  
to internal masonry  
or structural  
movement

**getting it fixed:**  
take-off and  
re-render and  
repaint, may need  
professional help



**what is wrong:**  
rot in ground floor  
timber

**possible causes:**  
insufficient  
ventilation

**getting it fixed:**  
unblock air bricks or  
drill out more air  
holes

# external walls



**what is wrong:**  
dampness at low  
level externally

**possible causes:**  
bridged, defective or  
no damp proof  
course (dpc)

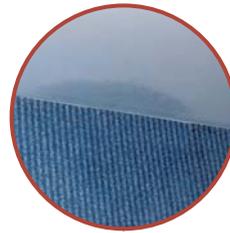
**getting it fixed:**  
ensure dpc is 150mm  
above ground level,  
if defective install  
new dpc



**what is wrong:**  
dampness at higher  
levels in streaks or  
blots

**possible causes:**  
penetrating  
dampness

**getting it fixed:**  
examine surface of  
external walls,  
repair or repoint  
brickwork



**what is wrong:**  
dampness at odd  
intervals on cold  
surfaces or areas  
away from main air  
flow

**possible causes:**  
condensation

**getting it fixed:**  
see mould and damp



**what is wrong:**  
glass cracked in  
steel framed  
windows

**possible causes:**  
corrosion in frames  
causing metal to  
expand

**getting it fixed:**  
remove glass, treat  
rust, replace glass  
and re-putty



**what is wrong:**  
windows/doors  
difficult to open/close

**possible causes:**  
paint build up  
causes timber to  
swell, rising hinges  
worn on doors  
where fitted

**getting it fixed:**  
release paint seal  
with knife or take  
out unit and plane  
to fit, replace rising  
hinges



**what is wrong:**  
rot in woodwork

**possible causes:**  
water getting into  
timber through poor  
protection (paint-  
work) or putty  
breaking down

**getting it fixed:**  
cut out and renew  
rotten timber (filler)  
or replace joinery,  
renew putty, prime  
undercoat and gloss  
top coat

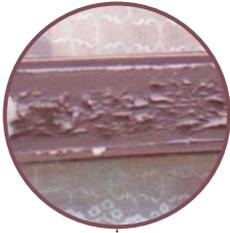


**what is wrong:**  
vertical sliding sash  
windows do not  
stay open

**possible causes:**  
broken cords or  
inadequate  
counterweights due  
to paint build up or  
installation of  
heavier glass

**getting it fixed:**  
open up frames,  
replace both cords  
or add additional or  
heavier weights

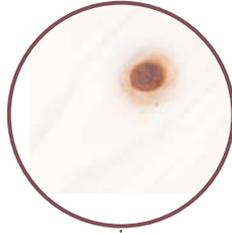
# doors and windows



**what is wrong:**  
woodwork paint  
flaking or lifting

**possible causes:**  
poor decoration  
quality or damp in  
timber

**getting it fixed:**  
thoroughly treat  
and redecorate  
ensuring timber is  
dry



**what is wrong:**  
resin on paint  
surface

**possible causes:**  
seepage of resin  
from knots in  
woodwork leaking  
through paintwork

**getting it fixed:**  
remove paint and  
thoroughly  
redecorate after  
applying a 'knotting'  
solution

# waste pipes and drains



**what is wrong:**  
discharged water  
slow to run out of  
bath/sink/shower

**possible causes:**  
blockage in waste  
trap or outlet pipe

**getting it fixed:**  
remove trap below  
appliance and clean  
out or clear pipe



**possible causes:**  
not enough gradient  
to waste pipe

**getting it fixed:**  
refix waste pipe  
with steeper run or  
replace with larger  
diameter pipe



**what is wrong:**  
water from trap in  
the U-bend  
disappears under  
sink fittings or bad  
smells occur

**possible causes:**  
volume of existing  
waste water causing  
vacuum in pipe and  
water seal to fail

**getting it fixed:**  
replace trap with  
anti-syphon trap  
which stops vacuums  
from starting

# waste pipes and drains



**what is wrong:**  
drainage gully, or  
manholes overflowing

**possible causes:**  
grating blocked

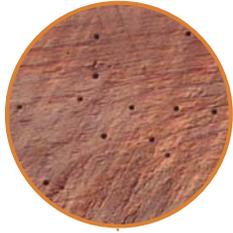
**getting it fixed:**  
clear grating



**possible causes:**  
blockage in drain or  
interceptor trap  
(between house  
drain and public  
sewer)

**getting it fixed:**  
check inspection  
man-holes to pin-  
point problem; clear  
drain or interceptor  
trap with drain rods;  
if not sure have  
drains tested

# internal roof space



**what is wrong:**  
holes in timber or  
'powdery' woodwork

**possible causes:**  
woodworm

**getting it fixed:**  
eradicate  
woodworm (see  
damp and moulds)



**what is wrong:**  
damp or rotted  
timber

**possible causes:**  
roof leaking or  
flashing defective

**getting it fixed:**  
repair roof covering  
or flashing, repair or  
replace rotten  
timber



**what is wrong:**  
damp chimney stack  
or dampness on  
underside of slates

**possible causes:**  
1. condensation  
2. plumbing leak

**getting it fixed:**  
1. ventilate roof  
space  
2. examine and repair  
as appropriate

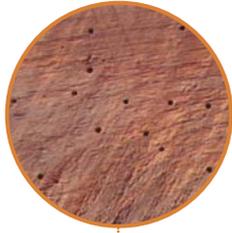


**what is wrong:**  
roof bowed/sagging

**possible causes:**  
timber poorly  
jointed or overlapped  
or insufficient size,  
can occur if the  
slates are replaced  
with tiles

**getting it fixed:**  
strengthen and  
support timbers or  
add further timber  
support

# floors



**what is wrong:**  
holes in floorboards

**possible causes:**  
woodworm

**getting it fixed:**  
eradicate  
woodworm (see  
damp and moulds)



**what is wrong:**  
creaking/loose  
floorboards

**possible causes:**  
loose or missing  
nails or split boards

**getting it fixed:**  
if necessary replace  
with partial floor-  
board, refix with  
screws or nails,  
check for under-  
floor services (gas,  
water, electric)  
before starting work



**what is wrong:**  
damp floorboards

**possible causes:**  
rising damp

**getting it fixed:**  
see damp and  
moulds

# walls and ceilings



**what is wrong:**  
damp wall

**possible causes:**  
plumbing leak

**getting it fixed:**  
check plumbing and  
repair



**possible causes:**  
condensation, rising  
damp or penetrating  
damp

**getting it fixed:**  
see damp and  
moulds



**what is wrong:**  
damp patch at top  
of chimney breast

**possible causes:**  
defective flashing or  
brickwork

**getting it fixed:**  
repair or repoint  
chimney brickwork  
above eaves



**possible causes:**  
unventilated flue

**getting it fixed:**  
ventilate bottom of  
flue, ventilate and  
cap-off top of flue,  
repair damp patch  
with new plaster

# walls and ceilings



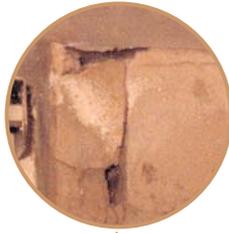
**what is wrong:**  
cracked or loose  
plasterwork

**possible causes:**

1. shrinkage in new materials (as they dry out)
2. old age: plaster losing keying with brickwork/masonry

**getting it fixed:**

fill cracks/replaster and redecorate



**possible causes:**

potential structural fault

**getting it fixed:**

consult a building surveyor



**what is wrong:**  
cracked or sagging  
ceiling

**possible causes:**

overloading

**getting it fixed:**

relocate furniture above joists, if necessary strengthen floor joists



**possible causes:**

in older houses, plaster losing connection to lathes above

**getting it fixed:**

remove all loose plaster, take back as far as necessary, replace with new plaster-board and redecorate



**what is wrong:**  
dripping tap

**possible causes:**  
faulty tap

**getting it fixed:**  
renew tap washer



**what is wrong:**  
overflow pipe  
dripping

**possible causes:**  
faulty (or dirty)  
ball-valve  
mechanism

**getting it fixed:**  
adjust ball valve  
arm, replace with  
new ball valve  
component



**what is wrong:**  
banging or knocking  
noise from pipework

**possible causes:**  
water knocking due  
to high water  
pressure or air lock

**getting it fixed:**  
main water pressure  
should be reduced  
or bleed trapped air



**possible causes:**  
poor support to  
pipes or insufficient  
thermal movement

**getting it fixed:**  
check degree of  
support and rectify  
and allow space for  
thermal movement



**what is wrong:**  
smell of gas

**possible causes:**  
gas leak

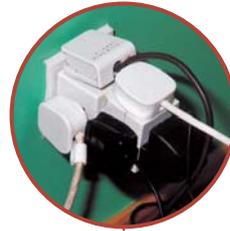
**getting it fixed:**  
contact Phoenix Gas  
urgently; turn off  
gas and open  
windows/doors



**what is wrong:**  
electric cables get  
warm or hot

**possible causes:**  
cables not the  
correct size

**getting it fixed:**  
contact a qualified  
electrician and get  
cables checked and  
if necessary replaced



**what is wrong:**  
plugs of socket  
outlets get hot, fuses  
frequently blow

**possible causes:**  
loose wires, over-  
loaded circuit, break  
down of cable  
insulation

**getting it fixed:**  
contact a qualified  
electrician to check  
for loose/old wiring  
and if necessary  
replace with new  
circuit installation



**what is wrong:**  
knocking sound  
from heater boiler  
or dog howling  
sound

**possible causes:**  
lime scale in heat  
exchanger

**getting it fixed:**  
have boiler regularly  
serviced



**what is wrong:**  
boiler not heating  
hot water

**possible causes:**  
air in pipe work or  
hot water tank  
valve jammed

**getting it fixed:**  
release air lock or  
free up input valve



**what is wrong:**  
top of radiator  
cooler than bottom

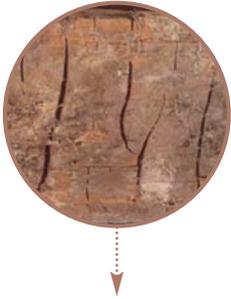
**possible causes:**  
air in pipework

**getting it fixed:**  
release trapped air  
through bleed valve  
at top right of  
radiator

# damp and moulds

Dampness in the home and allowing penetrating or rising damp to get into your home can be one of the greatest threats to its condition, and without preventative action, will further lead to the deterioration of the house and increasing disrepair in its fabric. The most important element is a sound, weatherproof and watertight roof, but gutters and downpipes can, and will, cause problems on external and internal surfaces of the home if not correctly maintained and kept rust free, and cleared of debris, including leaves and grime and algae washed from the roof covering.

Moulds and lichen are associated with damp conditions also and will only flourish in these circumstances. There are innumerable species of mould growth which first appear as tiny coloured specks or patches on masonry or wallpaper. They gradually merge until the surface is covered with colours that range from bright yellow, green, grey or black. To eliminate mould growth, the cause of the damp conditions must be first identified then eliminated, and then, where appropriate the surfaces re-decorated.



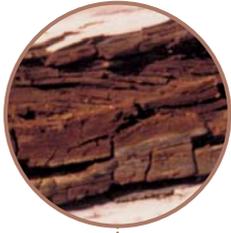
## dry rot

Once it has taken hold dry rot is the most serious problem of all. Urgent action is critical. It will attack timber with a much lower moisture than wet rot, but only in poorly ventilated confined spaces indoors - unlike wet rot which thrives outdoors as well as indoors. Dry rot exhibits different characteristics depending on the extent of its development. It spreads by sending out pale grey strands in all directions, even through masonry and brickwork to affect drier timbers and will even pump water from damp wood. Dry rot can often follow an attack of wet rot.

## dealing with dry rot

Dry rot requires drastic action and should be treated by a specialist contractor unless the outbreak is minor and self contained. The source of dampness should be eliminated and good ventilation added. Affected timber cannot be treated and must be burned. Replacement timber should be of a type which has been pressure impregnated with chemical preservative. Adjacent masonry should be sterilised by chemical injection. Dry rot fungus can be malignant and may reappear if moist conditions persist.

# wet rot

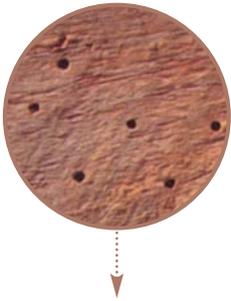


## wet rot

Wet rot occurs in timber that has a high moisture content. Once the cause of the moisture is eliminated further deterioration is halted. Very often attacks the framework of doors and windows and wooden sills that have been neglected, allowing rainwater to penetrate joints or between brickwork and adjacent timbers.

## dealing with wet rot

Once the cause of the damp has been eliminated cut away and replace badly damaged wood, then paint the new and adjacent woodwork with three liberal applications of chemical wet rot eradicator. Prime, undercoat and repaint treated woodwork.



## woodworm

Small 'flight' holes in floor boards, roof timbers, plywood underneath stairs (particularly!) and in sealed areas caused by beetles gnawing their way out of the woodwork after the beetle larvae have bored around the timber often for several years. Most frequently found is Common Furniture Beetle which can be brought into a house in old or infected furniture.

## dealing with woodworm

A reputable firm specialist in chemical spraying of all affected timber. In some cases, particularly floorboards they should be removed, burnt and replaced with new sections. Most firms give a 30 year written guarantee against further infestation of those timbers treated.

# condensation

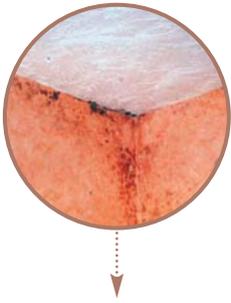


## condensation

Damp in a fairly new house that is in good condition is almost invariably due to condensation. The root cause of condensation is rarely simple, as it is the result of a combination of air temperature, humidity, poor ventilation and thermal insulation. Tackling just one of these problems in isolation may transfer condensation elsewhere or even may exaggerate the symptoms.

## dealing with condensation

Remove the water vapour at source or minimise cold surfaces on which condensation can occur. Vapour can be removed by open windows, extraction fans or dehumidifier units which absorb and collect airborne moisture. Cold surfaces can be heated or insulated, for example by double glazing.



## penetrating damp

Penetrating damp is the result of water permeating the structure of the house from outside. Symptoms only occur during wet weather. After a few dry days the damp patches dry out often leaving stains. Penetrating damp occurs most frequently in older homes which have solid walls. Relatively modern houses built with a cavity between two thinner brick skins are less likely to be affected by penetrating damp unless the cavity has been bridged in one of several ways.

## dealing with penetrating damp

Where the external walls are damp check the condition of the bricks and, more importantly, the soundness of the mortar joints and repair, fill and repoint as appropriate. Check cement rendering and external claddings for cracks and gaps and repair where necessary. Chimney breasts may be damp due to the presence of a flue lining and the condition of the chimney stack and mortar joints. Check also the state of roof coverings and eliminate holes where water can get in.

# rising damp



## rising damp

Rising damp is caused by water soaking up from the ground into the floors and walls of the house. Most houses are protected by an impervious barrier built into the walls and under concrete floors so that water cannot move upwards above a certain level. If the damp proof course (DPC) in the walls or the membrane (DMP) in a floor breaks down, water can move into the upper structure.

## dealing with rising damp

The ground level outside the house should be at least 150mm below the damp proof course. If not clear away earth or reduce the ground level as necessary. If the existing damp proof course is ineffective (or non-existent) a new horizontal barrier (DPC) must be installed at least 150mm above the adjacent ground level. Vertical damp proof courses may also be necessary at the end of horizontal sections. This type of installation work must be carried out by a specialist contractor who would provide a 30 year written guarantee if certain conditions are met.

# building insurance

Maintenance, Improvement and Do-It-Yourself work now has a high priority for home owners. Such work ensures the longevity of the property, retains and enhances its value and contributes to the comfort, security, convenience and enjoyment of its occupants. But sometimes major unexpected incidents like fires, explosion, falling trees, storms, burst pipes can cause serious disrepair involving expensive capital re-investment. Rebuilding cost insurance is an insurance policy taken out by home owners to cover the structure of their property against such unforeseen perils. The sum insured is not necessarily the same as the market or selling price or the Net Annual Valuation banding.

The sum insured is usually calculated on a rate per square metre basis, multiplied by the size of the property, and then adjusted to reflect factors peculiar to the building. Most Building Insurance policies are index linked to ensure that the rebuilding cost of the house is in general alignment with the current costs of rebuilding in line with Construction Cost Indices. It will only reflect true market conditions if the original valuation was correct. The RICS advises that domestic properties be revalued every 5 years, and that valuations are not index linked to extended periods as this can lead to inappropriate valuations of the property.

# planning approval and building control

Any proposed development work to a home may be subject to a requirement to have planning approval (from the DOE Planning Service) or Building Control approval through Building regulations enforced and regulated by the Building Control Department in the Local District Council.

The following Table has been prepared to help decide whether you need to seek planning permission or Building regulation approval before starting work.

If you are buying a house check that any substantial alterations or modifications (eg loft conversion) have been approved by Building Control or Planning (Development) Control.

## work

## planning permission

## building control

Electrical Jobs	No		No	
Plumbing	No		No	
Central Heating	No		Yes	Consult Building Control
Installation of Oil Storage Tank	No	Provided in the garden with a capacity not exceeding 3,500 litres Consult Planning Department	No	
Replacing windows and doors	No	Unless building is listed or in conservation area  Consult Planning Department	No Yes	If replacing like with like If changing style - ie changing size of openings Consult Building Control
Structural Changes within house	No	If use and purpose of house remains unchanged Consult Planning Department	Yes	Consult Building Control
Converting the loft	Poss	Consult Planning Department	Yes	Consult Building Control

## work

## planning permission

## building control

Building a porch	No	Within certain limits Consult Planning Department	No	Within certain limits Consult Building Control
Building a garden wall or fence	No	Within certain limits Consult Planning Department	No	
Cavity wall insulation	No		Yes	Consult Building Control
Decorations or repairs outside or inside	No	Yes if changing finishes - ie rendering over brickwork or applying stone cladding etc Consult Planning Department	No	
Replacing roof finish	No	If replacing like with like	No	If replacing like with like
Replacing a flat roof with pitched roof	Yes	Consult Planning Department	Yes	Consult Building Control
Building a conservatory	Yes	Treated as an extension Consult Planning Department	No	Exempt if under 30m <sup>2</sup> Consult Building Control
Constructing a small outbuilding	Poss	Consult Planning Department	Poss	Consult Building Control

## work

## planning permission

## building control

Installing a swimming pool	Yes	Consult Planning Department	Yes	If installed within a building Consult Building Control
Felling or lifting trees	No	Unless trees have protection notices Consult Planning Department	No	
Building a garage	Yes	Consult Planning Department	Yes	Consult Building Control
Building an extension	Poss	Consult Planning Department	Yes	Consult Building Control
Providing hardstanding for a car	No	Unless used by commercial vehicles Consult Planning Department	No	
Demolition	Yes	Particularly if listed Consult Planning Department	No	
Converting homes to Business Use	Yes	Consult Planning Department	Yes	Consult Building Control

## work

## planning permission

## building control

Converting house to a number of flats	Yes	Including bedsits (HMOs) Consult Planning Department	Yes	Consult Building Control
Planting a hedge	No	Unless it obscures view of traffic Consult Planning Department	No	
Installing solar panels on a roof	No	Provided they do not project more than 150mm above plane of roof	No	
Erect a satellite dish	Poss	Only if dish is erected on front wall or roof overlooking a road Consult Planning Department	No	
Converting a garage into a habitable bedroom	Yes	If it compromises the number of parking spaces Consult Planning Department	Yes	Consult Building Control

# the role of the surveyor and the survey process

When you are buying a house and are applying for a mortgage the Bank or lending institution will wish to appoint a valuer who has expertise, in assessing a property to protect the mortgage company's investment. His or her job is to survey the house and check that it is sound, and to pinpoint any urgent work that would require attention.

A report may consist of a basic valuation, a home-buyers report, or a full comprehensive structural survey. While it is optional, a full structural survey should be considered for older property or property with unusual features. This report will list everything that needs attention from cracks in the external rendering, to the incidence and location of dry rot. Some areas of the house may be inaccessible to the surveyor, and the condition of these areas, e.g. floors which are heavily carpeted, cannot be guaranteed.

The Structural Survey should be studied for possible serious faults that may be expensive to put right (and may require a retention of certain mortgage monies such as monies only released when they are put right) such as dry or wet rot, a poor roof or severe damp. What also should be noted are points which could potentially lead to repair problems at some future unspecified time. For example, a badly rusted gutter could lead to severe penetrating damp unless repaired or replaced. Such an extensive structural survey is designed to ensure that the purchaser is fully aware of the condition of the dwelling and the full extent of his liability to repairs if he/she were to proceed to complete the house sale. This should avoid the potential for problems in the future.

# useful telephone numbers

Planning Services .....	(028) 9054 0540
Building Control .....	See under District Council
Northern Ireland Electricity .....	0345 643 643
Water Service (Customer Services) .....	0345 440 088
Phoenix Natural Gas Ltd .....	0800 002 001
General Consumer Council for Northern Ireland .....	(028) 9067 2488
Royal Institution of Chartered Surveyors .....	(028) 9032 2877
Community Technical Aid (NI) .....	(028) 9064 2227
Northern Ireland Housing Executive (After Hours Emergency Repairs for Tenants) ...	(028) 9024 6111

See under Housing Executive in the telephone directory for a full listing of telephone numbers.





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