

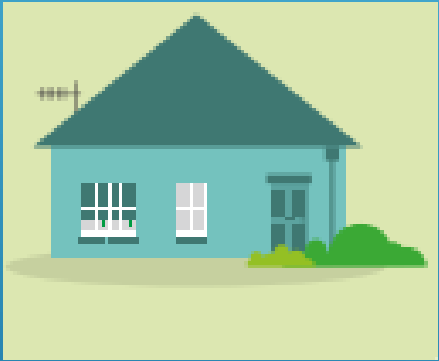
WATER SUPPLIES FOR RESIDENTIAL & DOMESTIC SPRINKLER SYSTEMS

*IT'S ALL ABOUT FLOW RATES
&
PRESSURE*

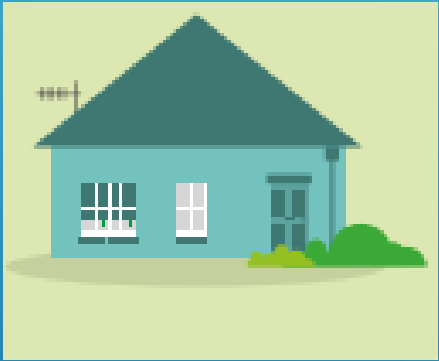
*FLOW RATES
PROVIDE SUFFICIENT VOLUME OF WATER
TO CONTROL A FIRE
(Measured in litres/per minute)*

PRESSURE

*MEASURES THE WATER GETS TO ALL SPRINKLES
PARTICULARLY THOSE THAT ARE FURTHEST AWAY
AND AT THE HIGHEST POINT IN A BUILDING
(measured in Bar)*

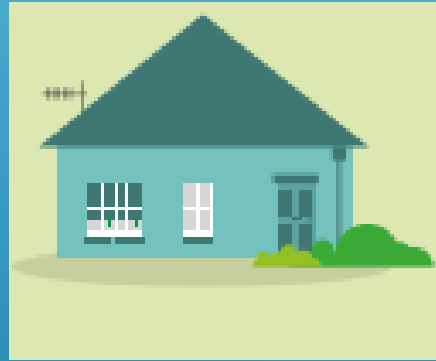


*A typical flow and
pressure
requirement for
A three bedroom
house
Say 68 litres/min
@ 1.5 Bar*



*DWR CYMRU
WELSH WATER
GUARANTEE
JUST
9 LITRES/MIN
AT
1 BAR*

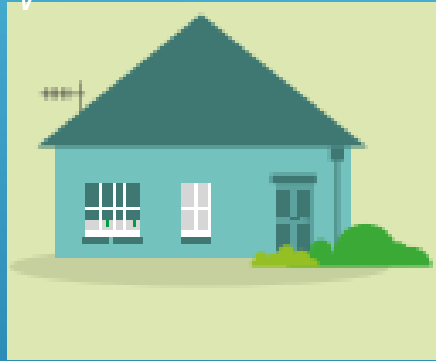
*GUARANTEED
9 LITRES @ 1 BAR*



*REQUIRED
68 LITRES @ 1.5
BAR*

*FLOW &
PRESSURE TEST*

FLOW TEST FAILS
TO MEET FLOW
&
PRESSURE
REQUIREMENTS



=

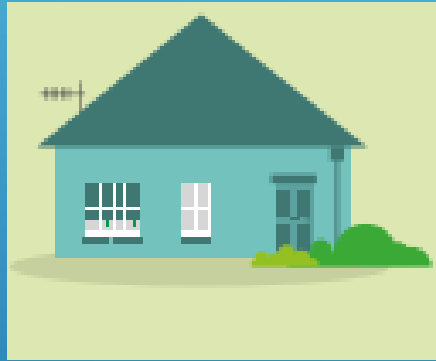


+



Not very practical!

*FLOW TEST
ACHIEVES
FLOW RATE
BUT NOT
PRESSURE
REQUIREMENTS*

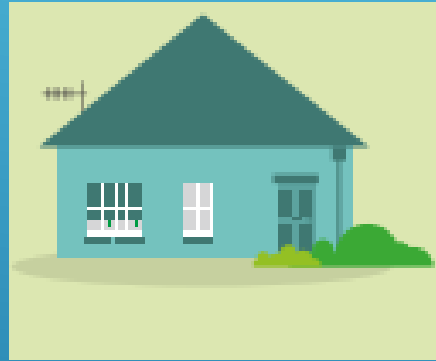


=



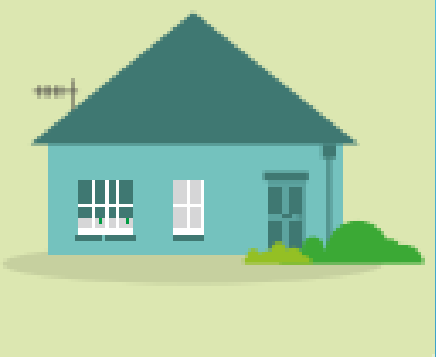
*Usually
Manageable*

*GUARANTEED
9 LITRES @ 1 BAR*



*REQUIRED
68 LITRES @ 1.5
BAR*

*FLOW &
PRESSURE TEST*



Pump duty	Unanswered
Test location	Resi riser under kitchen sink
Flow in litres per minute	45L
Pressure in bars	1.5 Bar
Most remote test location	Unanswered

AVOID
SYSTEM
FAILURE
BY
PRE
CONSTRU
CTION

THE FAILSAFE ALTERNATIVE (but with regulatory issues!)

WATER SUPPLIES

DEDICATED SPRINKLER 'RING' MAIN WITH PRESSURE AUGMENTATION PUMP

A concrete base & plinth will need to be installed by the principal contractor within the sprinkler

Panel to incorporate
13A single phase fused spur
(see slide 15 for Western Power
Data)

Tube heater

