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rise to suspicion of possible problems.

Remember that the attack may be hidden away under floors or under walls.

A camera with fibre optics can be used or building material has to be removed





SURVEY Internal decay

Internal decay of large sized specimens can be detected by using an increment corer or a Resistograph.





SURVEY Detection of decay

Fungal decay is mostly seen as a mycelial growth on the surface of timber, often accompanied by visual destruction of the wood.

The strength of the wood can be assessed by using the sharp point of a knife, a Pilodyne or a Resistograph.

Note. Salt deposits may be mistaken for mycelium. Light microscopy can be used for analysis.





SURVEY Causes of fungal attack

Fungal attack does never occur in dry wood.

It therefore occurs as a result of unintential wetting of the wood resulting from leaks or faults in building construction.

The sources of moisture needs to be identified and further wetting of the wood must be prevented for all future.





SURVEY Risk assessment

Determine if the attack is present in wet wood or if the wood is dry.

If the wood is wet, replace timbers if necessary and start drying out procedures.

If the wood is dry, the attack has occurred earlier and the stopped when the wood dried out.





SURVEY Risk assessment Optional

Identify the decay fungus if possible.

Samples may have to be taken and sent to specialists for identification.

Assessments of viability of decay fungus.





SURVEY Risk assessment

Determine the extent of damage: Extensive, Moderate, Limited or No Damage

Here a Pilodyne and a Resistograph may be used.

Microscopic examination of wood may be required to determine degradation

Decide on timber replacements and/or reinforcements to maintain structural safety





MONITORING Fungal decay

Monitoring of the environment always required, to make sure that the wood remains dry.

Monitoring should be done after remedial treatments or when decay is extremely slow.

Detailed inspections should be carried out at least once a year to make sure that no attacks have started





MONITORING Fungal decay

Visual or photographic monitoring by observing the structure from the same point at every occasion.

Note any changes in appearance!

Assessment of wood strength using a Pilodyne and/or a Resistograph.

Tests should be done at next to earlier predetermined points. Use labels or marker pen.

Compare new results with earlier results.