

Flat Roof vs Pitched Roof Waterproofing in Singapore

By [DirectHome Team](#)

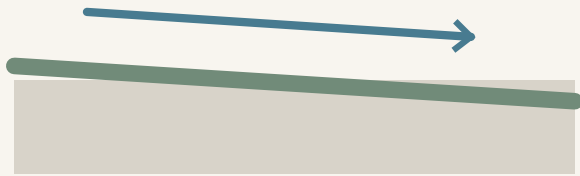
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4 min read

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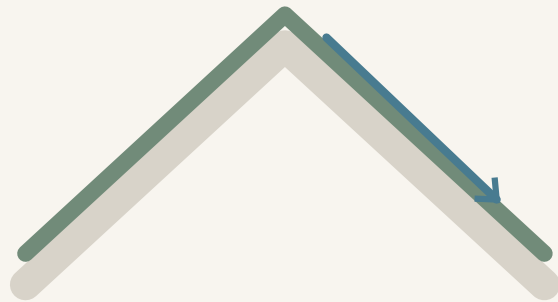
Flat roofs and pitched roofs leak in completely different ways. Here is how the waterproofing strategy changes depending on what is over your head.

Two different water routes



Low-slope roof

Falls lead water
to an outlet



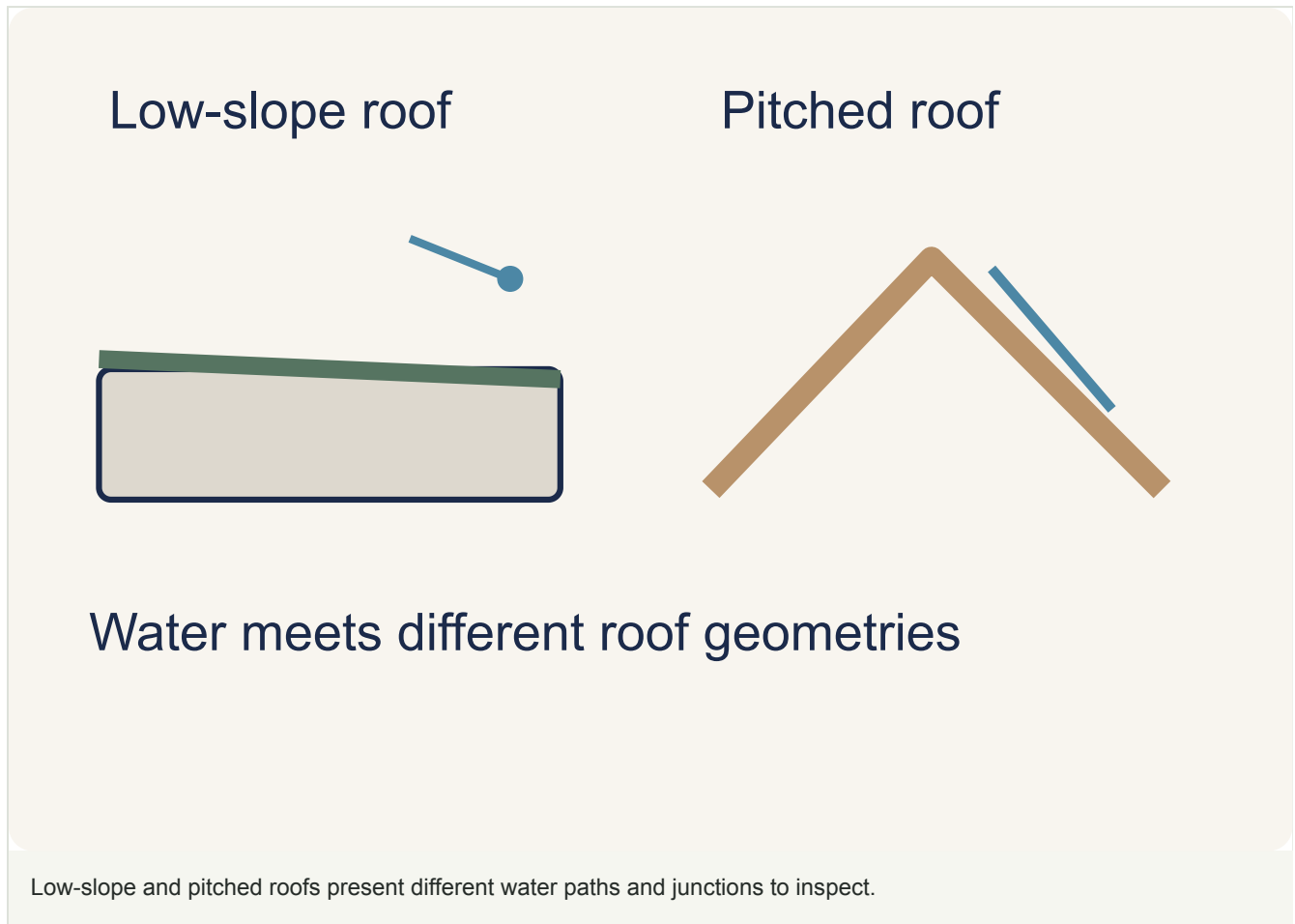
Pitched roof

Covering leads
water to eaves

Junctions need attention in both.

Low-slope roofs direct water towards outlets; pitched coverings lead it towards the eaves. Both depend on sound junctions along the route.

Why Roof Type Drives the Strategy

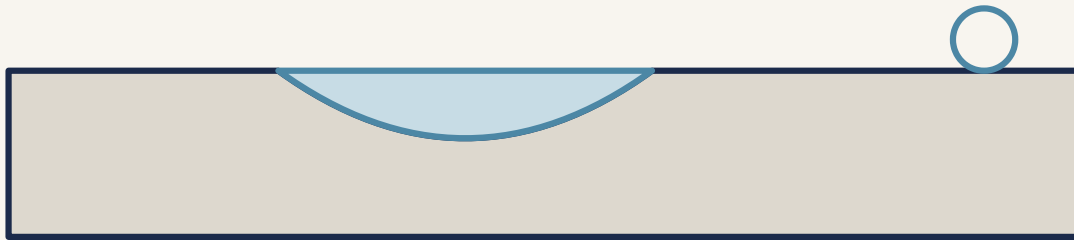


Roof shape changes how rain drains and which details need attention. On a flat roof, low spots and membrane junctions can retain water. On a pitched roof, coverings, flashings and gutters help shed rain, but wind-driven water can still reach defective joints or underlay.

The assessment should identify the roof build-up before choosing the repair. Similar liquid membranes may be used in different assemblies, but a tile or flashing defect needs to be repaired at that detail; coating an unrelated surface does not solve it.

Flat Roofs: Singapore Reality

Water follows the roof levels



A depression can retain water

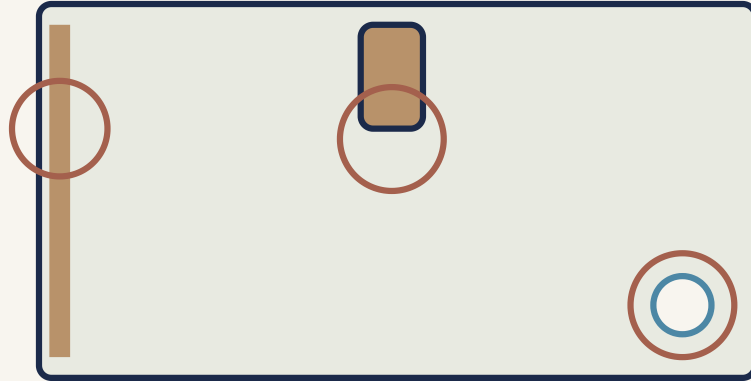
A local depression can retain water even when an outlet exists elsewhere on the roof.

Landed homes can have flat reinforced-concrete roof sections above extensions, porches or upper rooms. These still need designed falls towards drainage outlets. The appropriate fall depends on the roof construction and drainage design, so do not use a generic slope as proof that the existing roof is adequate.

Blocked outlets, low spots or later equipment can interrupt drainage and leave water ponding. The contractor should establish why water remains and whether the membrane is rated for that condition. Covering the surface again without addressing drainage can leave the original problem in place.

Flat Roof Waterproofing Systems

Membrane field and its junctions



Specify a complete roof system

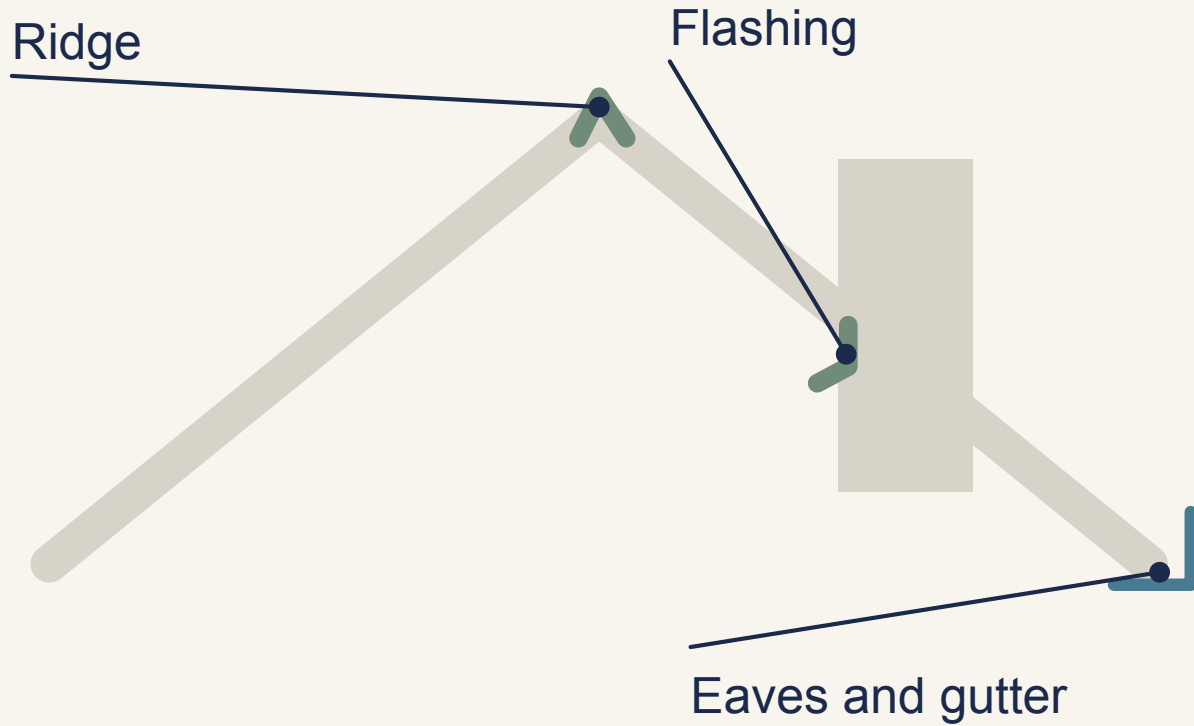
The waterproofing field needs to connect properly to the perimeter, penetrations and outlets.

A liquid-applied membrane may suit an exposed concrete roof if its documentation permits the substrate and exposure. The specified application rate, reinforcement and protective finish vary by product. They should be stated in the quotation and checked against the manufacturer's instructions.

For covered roofs, assess the membrane and protective layers together. Persistent ponding needs a drainage assessment; neither a thicker sheet nor a different chemistry automatically fixes it. The design should also allow appropriate maintenance access without damaging the waterproofing.

Pitched Roofs: Where They Leak

Look at the pitched-roof junctions



Ridges, flashings and eaves can each interrupt a pitched roof's protection, so an inspection should distinguish these locations.

Pitched roofs may use tiles or metal sheets over different support and underlay arrangements. Leak points include damaged coverings, failed underlay, blocked gutters and defective flashings. Establish what is actually beneath the covering rather than assuming every tiled roof sits above a waterproofed concrete slab.

Where a secondary waterproofing layer exists, its drainage path matters too. Water that gets beneath the outer covering should be directed safely away; a defect in that lower layer can allow it into the building. Inspection should connect the visible leak to the actual build-up.

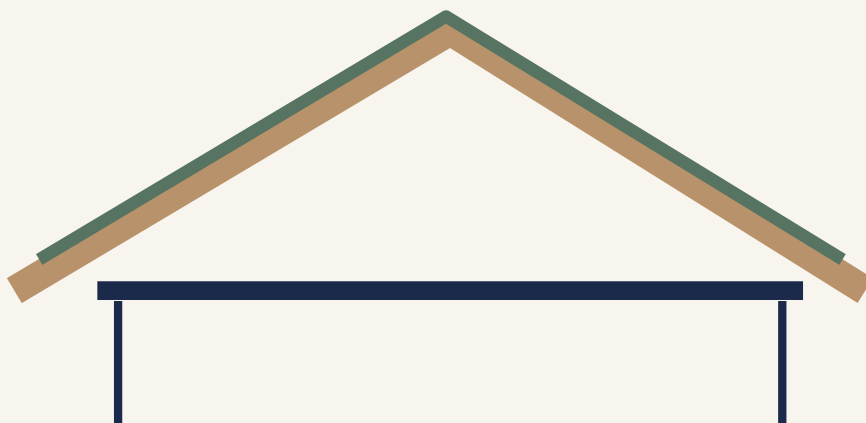
The outer covering and any secondary layer serve related but different roles. The covering sheds most rain; underlay or another secondary arrangement can direct water that gets past it towards a safe outlet. A blocked or wrongly connected drainage path can defeat that arrangement even where individual tiles appear sound. Repairing the visible covering should therefore be connected to an understanding of where water beneath it is supposed to go.

Record the visible symptoms so the inspection can investigate the source of the leak. [roof leak warning signs](#)



Pitched Roof Waterproofing Systems

Tiles above, waterproofing beneath



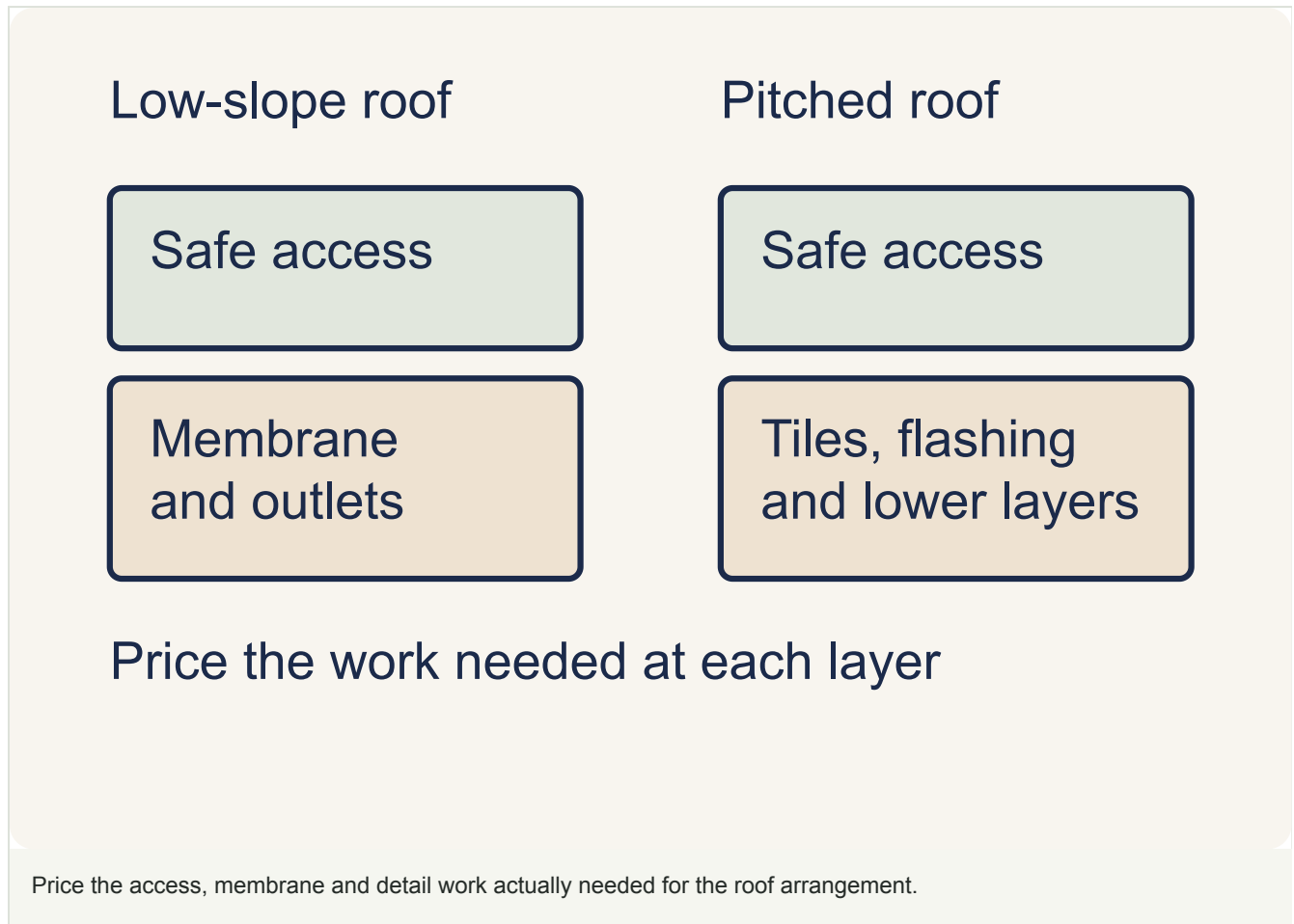
Identify which roof layer needs repair

Tile repair and work to the waterproofing beneath address different layers of the roof.

If a tiled roof includes a concrete slab with waterproofing, assess that layer separately from the outer covering. The appropriate repair may involve tiles, ridge details, flashing or a compatible membrane system. Do not assume a tile repair also restores a failed underlying barrier.

For exposed pitched concrete, the membrane system must suit the slope, substrate and weathering conditions. A compatible protective finish may be required. The slope helps water run off but does not remove the need to detail joints and penetrations.

Cost Differences



Separate the work into access, diagnosis, covering or flashing repairs, and any membrane replacement. A small visible defect can require substantial access work; a larger coating area can be relatively straightforward on a sound, safely accessible substrate. Compare those scopes before comparing prices.

Send [DirectHome](#) photographs already available from safe locations and a description of when the leak occurs. These can help plan the assessment, but photographs alone cannot establish the concealed leak path or a final repair price.

More on roof waterproofing

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