

Pitched Roof Take Off Questions (Externally Fitted)

Core Roof Components

1. What is the m² area of the roof?
 - *(check is the m² area the plan or pitched area?)
 - Do you want to allow for wastage? 2.5 – 5% recommended?
2. What is the pitch of the roof?
 - Select appropriate membrane:
 - a) 5-15deg = **UDB Membrane**
 - b) 15-18deg = **ADB Membrane**
 - c) 18deg+ = **OPTIONAL ADB Membrane**
3. Will the rafters be exposed?
 - a) No, skip to Q4.
 - b) Yes, follow below:
 - Is an exposed boarded finish (Sarking) proposed above the rafters?
 - i) Yes = **DSB2 Membrane**
 - How thick is the proposed boarding? *(required for fixing specification)
 - contact technical@unitylime.co.uk for a condensation risk analysis.
4. Is insulation required above rafters?
 - a) No, skip to Q5.
 - b) Yes, follow below:
 - What thickness of insulation do you require?
5. How thick are the counter battens?
 - Calculate Topix-Therm fixing length at 6/m²: *(to be verified by Structural Engineer)
 - i) Counter batten thickness + insulation thickness + Sheathing board thickness (See 4b) + 40mm embedment.
6. Is the roof new build or retrofit?
 - a) New build, skip to Q7.
 - b) Retrofit, follow below:
 - Will existing between rafter insulation be retained?
 - i) No, skip to Q7
 - ii) Yes = **LDB 0.02 Membrane** *(minimum 40mm thick insulation required over membrane)
7. Do you require between rafter insulation?
 - a) No, skip to Ancillary Items.
 - b) Yes, follow below.
 - How deep are your rafters?
 - What are your rafter centres/spacings?
 - Which insulation material do you require?
 - i) **Pavaflex** – Woodfibre best allrounder
 - ii) **Pavatextil-P** – Recycled Denim Most cost effective
 - iii) **Cosywool** - Sheep's wool UK manufactured
 - iv) **Natrahemp** – UK manufactured

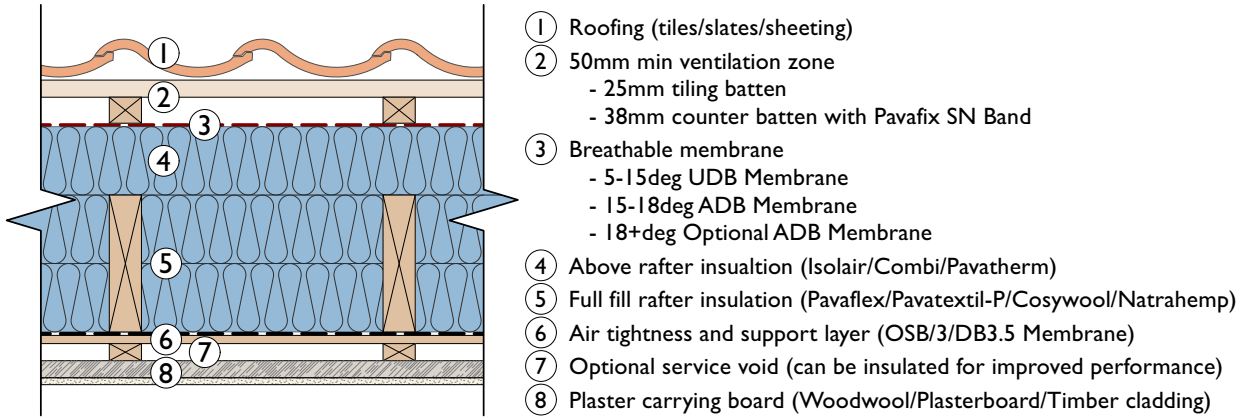
Ancillary Items - Breather Membrane

1. What is the total L/M of Eaves?
 - Calculate **Vent Strip & Pavatape 75**
2. What is the total L/M of rooflights & gable ends?
 - Calculate **Pavatape 12/Pavacoll & Pavatape 75**
3. Are there any cold bridge penetrations?
 - Calculate **Pavatape Flex**
4. What is the total L/M of counter battens?
 - Calculate **Pavafix SN band**
5. Is an airtightness membrane required internally?
 - a) Yes = **DB3.5 and Pavafix 60 & 20/40**
 - b) No = **Pavafix 60 & 20/40**

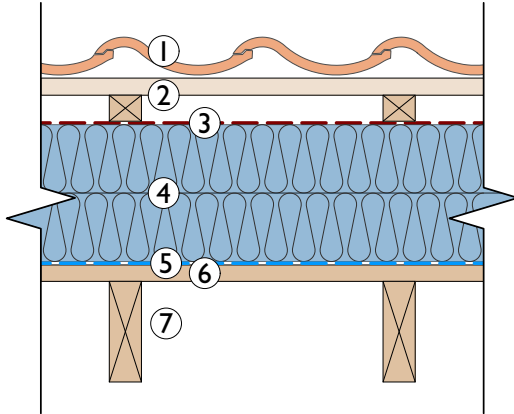
Ancillary Items - No Breather Membrane

1. What is the total L/M of ridge(s), valley(s) & hips?
 - Calculate **Pavatape 150**
2. What is the total L/M of Eaves?
 - Calculate **Vent Strip & Pavatape 75**
3. What is the total L/M of rooflights & gable ends?
 - Calculate **Pavatape 75**
4. Are there any cold bridge penetrations?
 - Calculate **Pavatape Flex**
5. What is the total L/M of counter battens?
 - Calculate **Pavafix SN band**
6. Is an airtightness membrane required internally?
 - a) Yes = **DB3.5 and Pavafix 60 & 20/40**
 - b) No = **Pavafix 60 & 20/40**

Pitched Roof (Between & Above Rafters)



Pitched Roof (Exposed Rafters)



- ① Roofing (tiles/slates/sheeting)
- ② 50mm min ventilation zone
 - 25mm tiling batten
 - 38mm counter batten with Pavafix SN Band
- ③ Breathable membrane
 - 5-15deg UDB Membrane
 - 15-18deg ADB Membrane
 - 18+deg Optional ADB Membrane
- ④ Above rafter insulation (Isolair/Combi/Pavatherm)
- ⑤ Air tightness and support layer DSB2 Membrane
- ⑥ Timber sarking boarding / OSB/3 / Plywood
- ⑦ Exposed rafters

