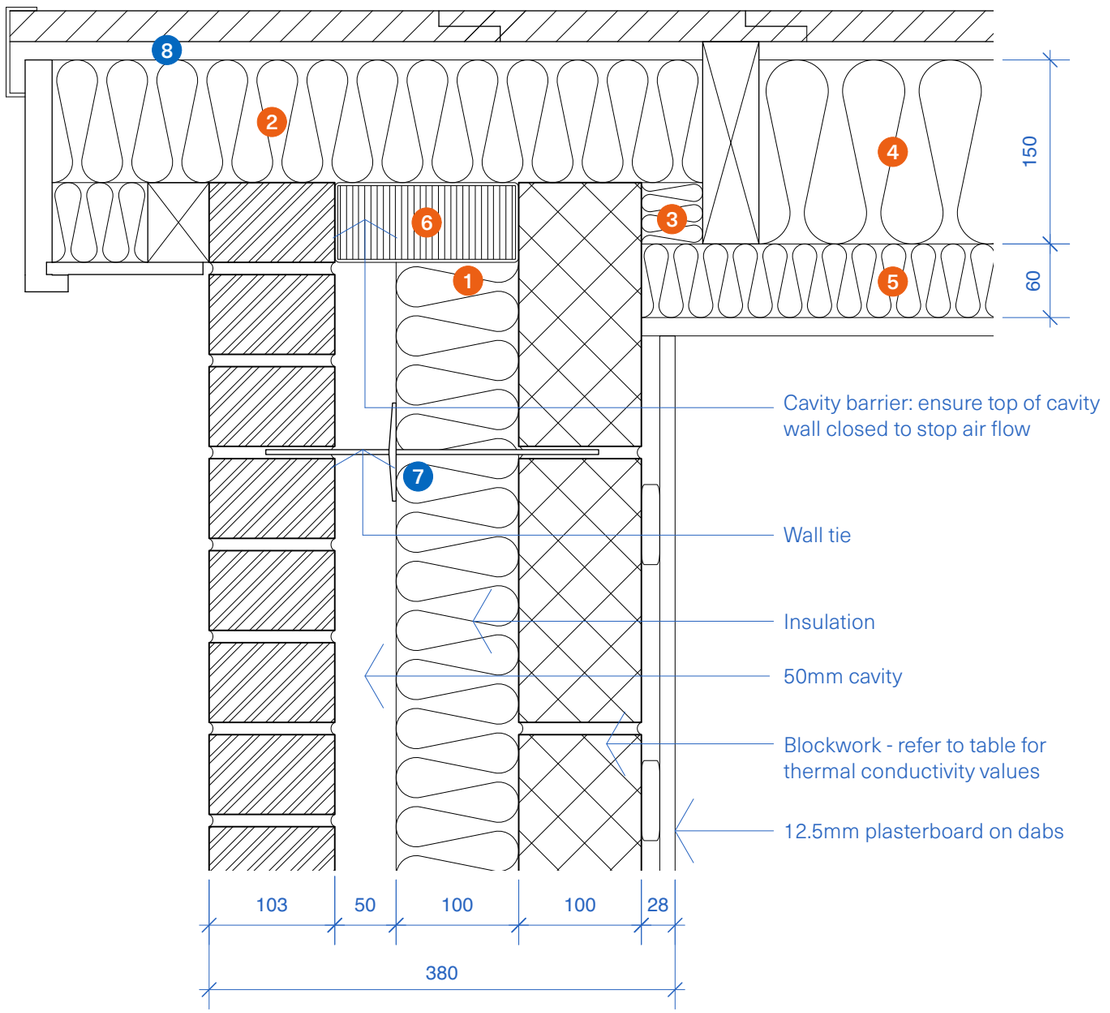
Construction Detail



Calculated Ψ (Psi) value for use in SAP Calculation

	Internal leaf block thermal conductivity (W/mK)					
Insulation thermal conductivity (W/mK)	0.11	0.15	0.19	0.28	0.6	1.33
0.019	**0.033**	**0.038**	**0.042**	**0.048**	**0.059**	**0.068**
0.022	**0.033**	**0.038**	**0.042**	**0.048**	**0.060**	**0.069**

f-values: 0.921 - 0.941 (values above 0.75 indicate low risk of condensation and mould)

Ψ (Psi) value Thermal Compliance Notes

1. Continue cavity insulation up to the wall head cavity barrier.
2. Minimum 100mm insulation λ≤0.044W/mK to void above the wall.
3. Pack insulation between the final rafter and the wall.
4. 150mm insulation (0.022 W/mK) between rafters.
5. 60mm (0.022 W/mK) beneath rafters.
6. Horizontal/vertical cavity barriers need to be fixed in accordance with manufacturers guidelines.
   If fixing spikes are used, they should be installed at the required centres.
   For compression fit cavity barriers, use the correct size for a compressive fit in the cavity.

Construction Notes

7. Wall tie: 225mm maximum distance from opening. No greater than 450mm spacing.
   Only use insulation retaining clips that are compatible with the wall tie.
8. Maintain air gap for ventilation.

General Notes

The cavity must be closed at the top of the wall for the provisions of Diagram 5.3 ADBv1 to apply.