



a. Volume of proposed hip-to-gable roof extension:

$$Wa=4.54m \quad Ha= 2.01m \quad Da= 7.83 m$$

$$Va= Wa*Ha*Da/6 = 11.90 m^3$$

b. Volume of proposed box dormer on rear roof slope:

$$Wb=3.22 m \quad Hb=1.95 m \quad Db= 7.40 m$$

$$Vb= ((Wb*Hb)/2)*Db= 23.23 m^3$$

Volume added to original roof by proposed works:

$$V= Vax2+Vb= 23.8 + 23.23$$

$$V= 47.03 m^3$$

0 2 4 6m

#### GENERAL NOTES

- All dimensions must be checked on site before any works commencement.
- All discrepancies must be reported to the Main Architect before works proceed.
- Only figured dimensions are to be used.
- Any conflict of given data on the drawing(s) with site condition to be discussed with the Architect.
- The General Contractor and/or all Sub-contractors working according these drawings and specifications to contact the architect or representative if any measurements do not appear correct or unclear, add up properly or scale correctly to the indicated size upon approvals.

#### STRUCTURAL NOTES

All Structural Elements Spans must be measured on site before ordering.

This drawing must be read in conjunction with the Structural Engineer's Drawings, Calculations and other details.

All drawings to be read in conjunction with structural engineer's drawings and specifications.

Note: Accurate site dimensions are to be taken by the contractor on site prior to any construction commencing.

#### DRAWINGS:

#### PROPERTY ADDRESS

39 Woodford Crescent

HAS 3TZ

#### PROJECT

4m Single storey rear extension  
Hip to Gable loft conversion  
Porch

#### TITLE

Loft volume Calculations

#### DWG REF

FL26

DRAWING NO.  
A006

REVISION 01 DATE 03/07/2025

REV - - DRAWN FF

REV - - CHECKED AP

REV - - SCALE 1:100