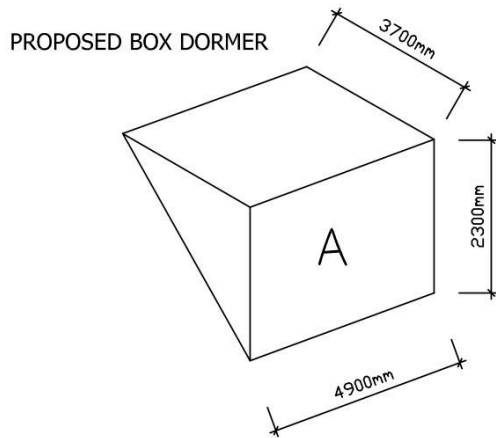
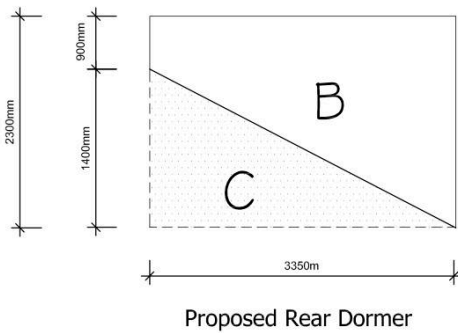


VOLUME CALCULATION :



A - BOX DORMER ROOF EXTENSION
 = $0.5 \times 2.3\text{m h} \times 4.9\text{m w} \times 3.7\text{m projection}$
 = 20.850 cu.m.



B - PROPOSED REAR MANSARD EXTENSION
 = $3.350\text{m w} \times 3.5\text{m d} \times 2.3\text{m high}$
 = 26.968 cu.m.

C - EXISTING ROOF AREA REMOVED
 = $0.5 \times 3.350\text{m w} \times 3.5\text{m d} \times 1.4\text{m high}$
 = 8.208 cu.m.

TOTAL VOLUME OF ROOF EXTENSION
 = A + B - C
 = $20.850 + 26.968 - 8.208$
 = 39.610 cu.m.

hence total volume is 39.610 cu.m which is less than 40.00 cu.m. permissible volume for roof extension of a terraced house under permitted development.