



Southgate Timber – Calculation guide – January 2015

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1. Feet (ft) to Metres (mtrs)

Feet / 3.2808 = metres

i.e. 100ft / 3.2808 = 30.48 metres

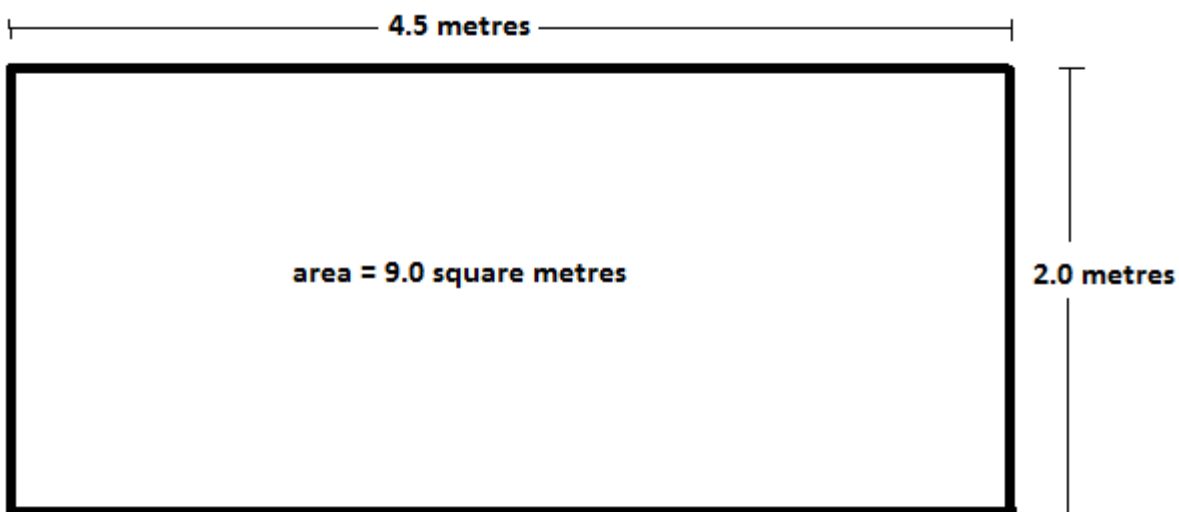
2. Metres (mtrs) to Feet (ft)

Metres x 3.2808 = feet

i.e. 100metres X 3.2808 = 328 feet

3. Square metres (m2) decking or cladding

length (metres) x width (metres) i.e. 4.5 x 2.0 = 9.0 Square Metres (m2)





4. Square metres (m2) to metre run (mtrs) decking or cladding

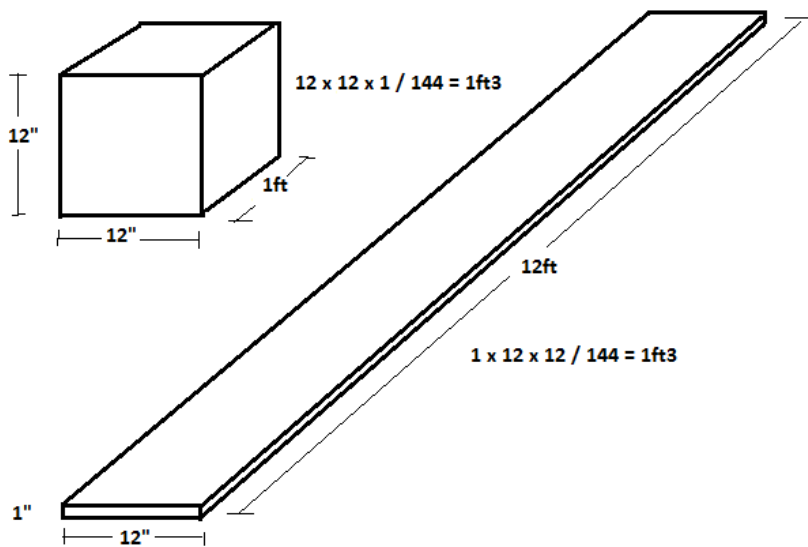
Square metres (m2) / coverage (mm) = metre run (mtrs)

i.e. taking board covering 150mm width and 100m2 = 100 square metres (m2) / 0.150 = 666.67 metres (mtrs)

i.e. taking board covering 95mm width and 100m2 = 100 square metres (m2) / 0.095 = 1052.63 metres (mtrs)

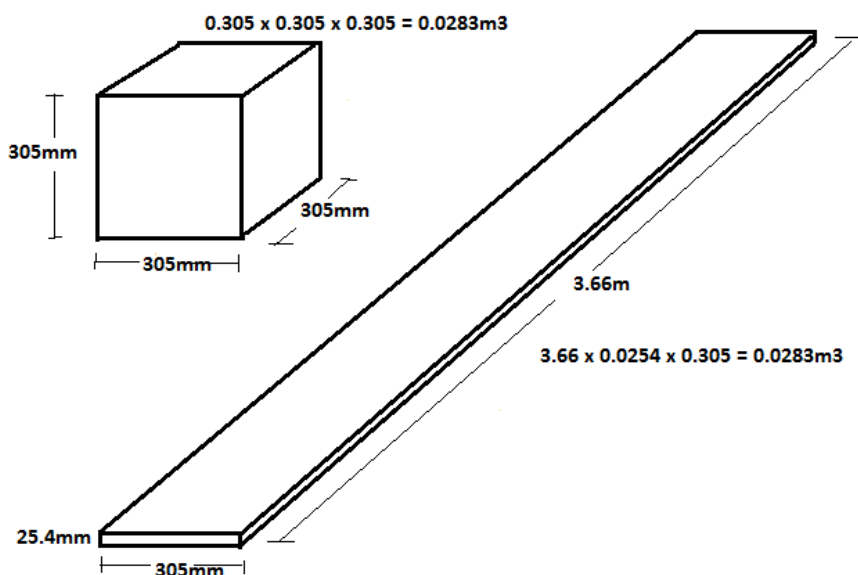
5. Cubic Feet (ft3)

Length (feet) x thickness (inches) x width (inches) / 144 = Cubic Foot (ft3)



6. Cubic Metres (m3)

Length (metres) x thickness (mm) x width (mm) = cubic metres (m3)





7. Cubic Feet (ft3) to Cubic Metres (m3)

Cubic feet (ft3) / 35.315 = cubic metres (m3)

i.e. volume 30ft3 would be $30 / 35.315 = 0.849$ cubic metres (m3)

8. Cubic Metres (m3) to Cubic Feet (ft3)

Cubic metres (m3) x 35.315 = cubic feet (ft3)

i.e. volume 2.5m3 would be $2.5 \times 35.315 = 88.288$ cubic foot (ft3)

9. Price (£) per Cubic Feet (ft3) to Price (£) per metre run (mtr)

Price (£) per cubic foot (ft3) / $144 \times \text{thickness (inches)} \times \text{width (inches)} \times 3.2808$ = Price (£) per metre run (mtr)

i.e. 2" x 6" sawn American White Oak @ £34.95/ft3 would be $34.95 / 144 \times 2 \times 6 \times 3.2808 = £9.55$ per metre

i.e. 1 ½" x 12" sawn Sapele @ £28.95/ft3 would be $28.95 / 144 \times 1.5 \times 12 \times 3.2808 = £11.87$ per metre

10. Weight in Kilograms (kgs)

Total length in metres (mtrs) x thickness (mm) x width (mm) x **material weight (kgs) per cubic metre (m3)** = weight in kilograms (kgs)

Use the following figures for the species we stock:-

a) Balau, Ipe, Fresh Sawn oak = 1000 kilograms (kgs) per cubic metre (m3)

b) Euro Oak, American Oak, Sapele, Ash, Walnut, Iroko = 760 kilograms (kgs) per cubic metre (m3)

c) Far Eastern Hardwood (Meranti), Tulipwood = 650 kilograms (kgs) per cubic metre (m3)

d) Western Red Cedar = 550* kilograms (kgs) per cubic metre (m3)

*touch dry weight

i.e. 100 metres 45 x 145mm p.a.r. Far Eastern = $100 \times 0.045 \times 0.145 \times 650 = 424$ kilograms (kgs)

i.e. 30 metres 2" (52mm) x 6" (152mm) sawn Sapele = $30 \times 0.052 \times 0.152 \times 760 = 180$ kilograms (kgs)

i.e. 25 metres 21 x 145mm smooth 2 sides Ipe = $25 \times 0.021 \times 0.145 \times 1000 = 76$ kilograms (kgs)



11. Screw Calculator (for Hardwood Decking screwing through face)

Volume metres (mtrs) / joist centre x 2 = number of screws

Standard joist centres 450mm (about 18")

i.e. 100 metres of decking would be $100 / 0.450 \times 2 = 445$ screws

12. Extreme Clips (for Ipe Hardwood Decking)

Coverage per box as follows;-

145mm wide board 450mm centres = 11m²

145mm wide board 400mm centres = 9.75m²

90mm wide board 450mm centres = 7m²

90mm wide board 400mm centres = 6.25m²

13. Fencing Guide

we recommend 1.5metre centres on the posts

