# **Technical Information Sheet**

Tileform UK

### Tactray 90 – Guide to Loads & Weights

Tactray 90

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The primary function of Tactray 90 is to carry the dead and live loads associated with the roof and overall structure.

The dead load is defined as that load imposed by the various coverings, plus internal features such as suspended ceilings, sprinklers, heating and ventilating systems and lighting.

Live loads are taken to comprise of snow loads (0.75 Kn/m2) plus any other transient loads such as positive or negative wind loads and construction loads.

It is important to understand the definition between weight and load when considering Tactray 90

Weight ...... How heavy an object is and can be expressed in ....Kilo-gram's per square metre (Kg/m2)

Load ...... A force acting as a weight and can be expressed in Kilo-newtons per square metre (kN/m2)

To calculate a load from a known weight, use the following formula .....

### Weight (Kg/m2) x 9.81

= kN/m2

#### 1000

The gauges, weight and loads for Tactray 90 are given in the table below

Tactray 90 - Gauge (mm)	Weight (Kg/m2)	Load (kN/m2)
0.75	8.83	0.09
1.00	11.78	0.12
1.25	14.72	0.14

The table on page 2 gives typical weight and load figures for popular roof coverings

**Tileform UK Ltd** Spital Farm Offices, Thorpe Mead, Banbury, Oxon, OX16 4RZ Tel : 01295 250998 | Fax : 01295 271068 | www.britmet.co.uk | email : britmettileform@hotmail.com

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External weights can vary considerably from as little as 7 Kg/m2 such a Britmet Tileform steel tile sheets up to 110 Kg/m2 with a reconstructed stone slate.

Manufacturer	Product	Weight Kg/m <sup>2</sup>	Load kN/m <sup>2</sup>
Forticrete Roofing Products 051 922 2048	Hardrow Stone Slates	80–96	0.78–0.94
Britmet Tileform Ltd 01295 250998	Steel Tile Sheets	7 7 - 11	0.07
ECC Building Products 0293 545058	Cotswold Stone Slates Moordale Stone Slates	84 110	0.82 1.08
Eternit 0763 260421	600 x 300 Rivendale, Shire, 2000, Duracem, Country Gower, Fibre Cement Slates.	19–21	0.18–0.20
Keymer 0444 232931	Handmade Clay Plain Tiles	76	0.75
Alfred McAlpine Slate Products 0248 600656	Penrhyn 600 x 300 Standard Grade Natural Slates	34	0.33
Marley Roof Tiles 0732 741500	Modern, Flat Concrete Supalite, Shallow Roll Concrete	52–56 28–30	0.51–0.55 0.27–0.29
Redland Roof Tiles 0737 242488	Cambrian Interlocking Slate Regent, Bold Roll Concrete	17 47–51	0.17 0.46–0.50
Sandtoft Tileries 0427 872696	County, Clay Pantile Old English Clay Pantile	42 44	0.41 0.43
Steetley Roofing 0782 750243	Acme Machine Made Clay Plain Tiles	64	0.63
NB Weights are typical and, w different gauges and thick manufacturer concerned. T typical weight, use the foll	Weight (kg) x 9.81 1000 = kN/m <sup>2</sup>		

Once the structural engineer has calculated all the relevant loadings, Tactray 90 Load/Span tables can be used to determine the gauge of material and purlin spacings.

See Tileform Technical Information sheet TT90/0015 for guide to loads and spans also Tactray 90 Brochure

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