

Leca[®] and Lytag[®] are superficially similar, both being expanded “fired” honeycombed pellets, however, for many applications the choice is a compromise between achieving a beneficial light weight advantage by using Leca[®] against the additional strength achieved by employing Lytag[®].

Lytag[®] is approximately half as dense as normal limestone or gravel aggregate, however, Leca[®] is itself half as dense as Lytag[®] (i.e. four times lighter than “normal aggregate”). Broadly, use Leca[®] where reduction in weight is the primary consideration, for example backfill to structures, for drainage especially green roofs and as fill for feature plant containers. Lytag[®] is used where design strength needs to be achieved with reduction in weight compared to natural aggregates, for example in wet pour and precast concrete, or loose backfill to services where loads may be applied, it has also been successfully used for vehicle arrestor beds.

There is no absolute correlation between lightweight aggregate properties and concrete strength, however, as a loose material Lytag[®] has a greater crushing strength than Leca[®] (BSEN 13055). Direct correlation cannot be made between the crushing strength of lightweight and “normal aggregates” as differing test methods are used.

Both Leca[®] and Lytag[®] provide thermal insulation to a similar degree, exact data can be obtained from manufacturers if this aspect is critical for a given application.

When loose laid, in the short term Lytag[®] has a lower water absorption compared to Leca[®], However, in the long term the water absorption of both products is similar at around 30%.

Lytag[®] can claim green credentials as it is a secondary aggregate produced from the ash of coal fired power stations – although clearly the coal has to be mined and burnt in the first place! Leca[®] is produced from virgin clay aggregate. Whilst we have not seen absolute figures the energy required to manufacture both products is likely to be similar.



Order online at

www.SpecialistAggregates.com

	Leca [®] 10-20mm Lightweight Expanded Aggregate	Leca [®] 10-16mm Lightweight Expanded Terracotta Aggregate	Leca [®] 10-20mm Lightweight Expanded Insulation Fill	Leca [®] 4-10mm Lightweight Expanded Aggregate	Lytag Geo fill [®] Lightweight Aggregate	Lytag 4-14mm [®] Lightweight Aggregate For Concrete	Lytag 4-8mm [®] Lightweight Aggregate For Floor & Roof Screed
Product Code	7892	7887	7897	7890	7830	7832	7831
Particle Size (mm)	10-20 mm	10-16 mm	10-20 mm	4-10 mm	8-14 mm	4-14 mm	4-8 mm
Approx' Density (Kg / m ³)	280 Kg/m ³	280 Kg/m ³	280 Kg/m ³	350 Kg/m ³	810 Kg/m ³	810 Kg/m ³	810 Kg/m ³