

# The wider benefits of using rolled lead sheet

Alongside these environmental benefits, rolled lead sheet to BS EN 12588 has a number of additional characteristics that make it a great roofing and cladding product:

- » It is long-lasting. Most lead roofing products have a lifespan of in excess of 60 years, and there are many examples of the product lasting over 100 years.
- » It is malleable, which makes it easy to install, but rigid enough to avoid wind-lift
- » It is weather-tight, providing peace of mind to the owner and installer
- » It requires a low level of maintenance
- » It can be installed in most weather conditions
- » Long term labour and material guarantees are available when British Standard rolled lead sheet is installed and approved by contractors.



The Lead Sheet Association

If you would like to find out more about the benefits of using Rolled Lead Sheet and how it can make a difference to your project, please contact the LSA.

Either talk to one of our Technical Officers or your local Regional Marketing Manager.

We are here to help:

**01622 872432**



## Lead Sheet Association

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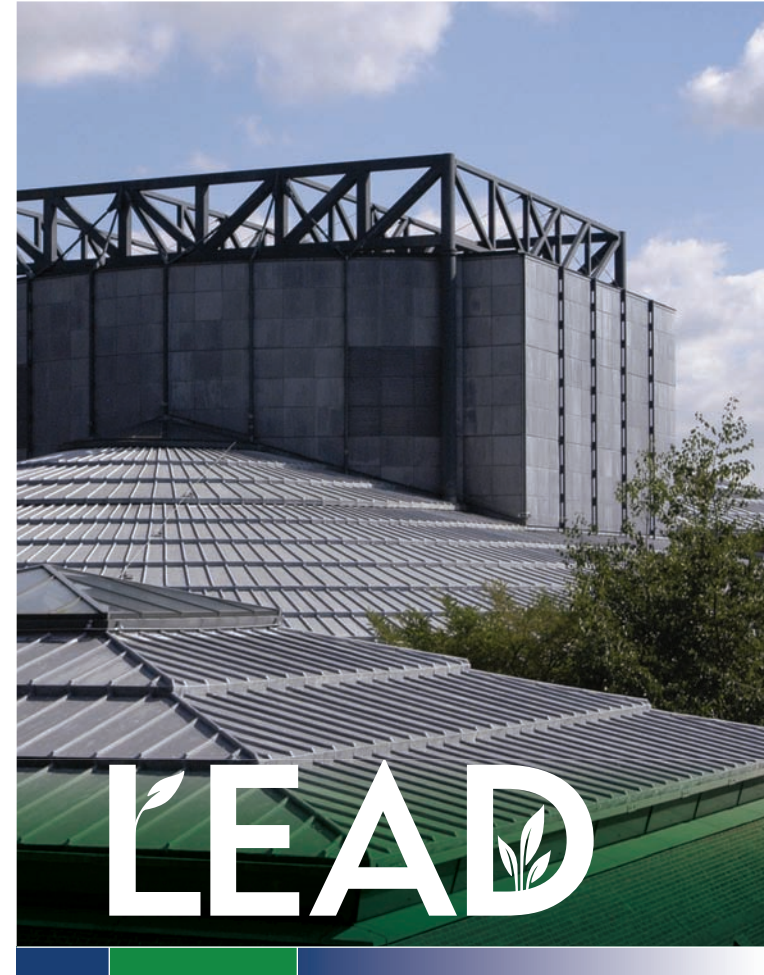
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BS EN 12588 

Our Members:



[www.leadsheet.co.uk](http://www.leadsheet.co.uk)



## The 'new' eco building material

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# The 'new' eco building material



Lead is the 'new' eco material that has been around for hundreds of years. It is used on a variety of buildings, from the flashings on domestic porches and cladding and roofing on modern commercial buildings, to the domes of heritage buildings and churches across the world.

Due to its long life and use in historic buildings, the perception of lead can be that it is mainly a heritage material, but lead is currently undergoing a renaissance. Now in the BRE Green Guide for the first time with a rating of A+ or A, depending upon the use to which it is put; lead is a contemporary building material that has a key role to play in sustainability.

## Environmental benefits of rolled lead sheet

**Rolled lead sheet to BS EN 12588 offers a number of environmental benefits.**

- ✔ It is 100% recyclable and can be used repeatedly without any loss of performance, there is no need for disposal at expensive landfill sites.
- ✔ Lead has a relatively low melting point which means that less fuel is burned during its manufacture – it has the lowest carbon footprint of all roofing metals
- ✔ Lead is up to 50% cheaper than most man-made flashing products over 40 years and over 65 years it is almost 100% cheaper
- ✔ Lead's long life makes it a great choice if you are considering the wider environmental impact of a building. Man-made products have a much shorter life span, often require the use of toxic adhesives to fix them in place and those made with hydrocarbons are not easily recyclable.

## Lead in the BRE Green Guide

The LSA has been promoting the benefits of rolled lead sheet for many years as it is a great building material and is the product of choice for those who want a quality roofing product that is reliable, looks good and is of long term value.

Due to its long life, we had suspected that lead had a lot to offer in environmental terms but everything we do is evidence-based which is why we have worked with BRE Global to establish lead's green credentials.

The results speak for themselves.

- ✔ In most standard lead roofing and vertical cladding installations lead has a rating of A or A+ in the BRE Green Guide to Specification.
- ✔ When used in vertical cladding applications, lead has a carbon footprint of between 30 and 76kgCO<sub>2</sub> per kg of material. When used on flat or sloping roof installations, this range falls to between 4 and 58kgCO<sub>2</sub>. This is considerably lower than similar installations using copper, zinc and stainless steel. There are very few statistics available for man-made materials but they will undoubtedly have even higher carbon footprints where they are made from hydrocarbon products.
- ✔ Lead also scores well when measuring Eco points - the degree to which a material contributes to the environmental performance of a building. Depending on the form of roof or cladding system adopted lead will only generate between 0.5 and 0.66 Eco points. These figures mean that the effect of using lead on a project is of minimal impact on its environment credentials.

## Carbon Footprint and Green Guide Ratings for Comparable External Wall Specifications

Specification	Green Guide Rating	Kg of CO <sub>2</sub> eq.
Code 5 Lead Sheet	A+	42-76
GRP	A	110
Copper	A	110
Coated Aluminium	A	110

## Carbon Footprint and Green Guide Ratings for Comparable Roofing Specifications

Specification	Green Guide Rating	Kg of CO <sub>2</sub> eq.
Code 5 Lead Sheet	A+	4.5-27
EPDM	A+	21
PVC	A+	31
TPO Single Ply	A+	33

