

ALUCOBOND® PLUS and A2 Recycling

General Information

ALUCOBOND® panels are thin, symmetrically structured composite panels, comprising a core and aluminium covering layers. Used in architecture (mainly façades) and in the transport & industry sector (casings, etc.), these extremely rigid panels are usually 4 mm thick and have excellent flexural properties. They are lighter than other metal cladding material and installation on buildings is easy.

ALUCOBOND® façades have a long service life of at least 50-70 years.

In general, ALUCOBOND® panels are used for large buildings, and so several tons of material can be recovered at the same time when these buildings are renovated. The material recovered has a substantial economic value, which means that even when legal regulations are not taken into account, these panels are recycled, never dumped on a landfill.

Material recovery and recycling

There has been a solution for separating aluminium from the core of composite panels under economic conditions for many years. One method is by using granulators or shredders to cut the composite panels into small pieces, and in so doing separating aluminium chips from the core particles. Another technique, mainly for large-format scrap, is based on rolling processes to achieve separation.

The aluminium is melted down and fed straight back into the production cycle. After processing and depending on its level of purity, the core is either returned to the production process or goes into a secondary cycle and is used, for example, in road construction, for door fillings or for grass pavers. Alternatively, the mineral core components can be recovered by means of pyrolysis.

EPD (Environmental Product Declaration)

ALUCOBOND® has an Environmental Product Declaration (EPD) in compliance with international ISO standards. An independent third party verifies the “ecological footprint”, and the EPD provides information on the product’s environmental impact, such as energy consumption, greenhouse gases (CO₂) and water consumption. The document serves as proof in sustainability certification for buildings. The EPD for ALUCOBOND® composite panels is available to download (alucobond.com/tools-services/downloads).

Material components (composition/details on components)

Chemical properties:

ALUCOBOND® PLUS

Composite panel comprising aluminium covering layers, mineral filled thermoplastic core. Contains no hazardous substances.

ALUCOBOND® A2

Composite panel comprising aluminium covering layers, thermoplastic bonded mineral core. Contains no hazardous substances.

For further information, please see the Product Data Sheet. This has been compiled in accordance with the Safety Data Sheet as required by Regulation (EU) No. 1907/2006 and can be provided on request.