

# Balder™ 40 mm

Wall and ceiling absorbent - silencer

Datasheet

## Description

The plate has been developed especially with regard to mounting in a T-system, directly on the ceiling or possibly glued/attached to the wall where there is no space for a traditional suspension system.

The plate has a structured surface.

The plate has a particularly good sound absorption and is very sound dampening. With high light reflection, it is therefore very suitable for office and teaching environments, nurseries and rooms with a lot of noise.



## Color and light reflection

Closest color code is NCS 0502-Y with light reflection up to 84 %.

The plate is also available in other RAL colors as custom made.

## Installation

The plates are mounted in a traditional suspended T-system or directly on the ceiling or on the wall. On the wall, assembly glue is usually used, suspension bracket, U-frame or screws.

## Edge type

Edge A (right angle edge)

## Acoustic - absorption

The plate is classified as Class A, Absorption test is according to ISO 354:2003 with 200mm air behind the plates. NRC = 0,95.

The absorption coefficient ( $\alpha_w$ ) is calculated to 1,00 according to ISO 11654.

## Fire class

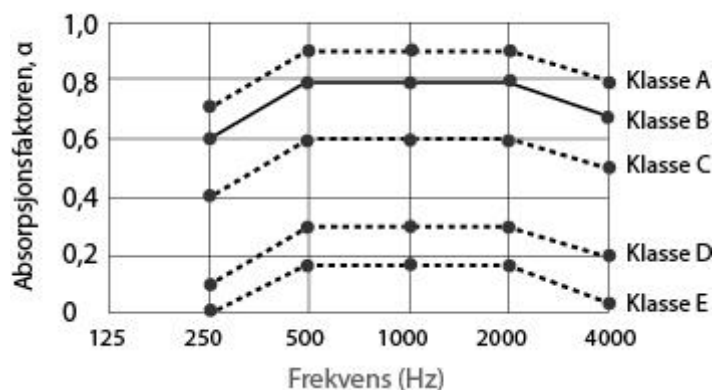
A2-s1 d0, according to EN 13501-1.

## Formaldehyd

Class E1 (Indoor product standard).

The following shows sound classes in relation to the absorption coefficient.

Ihht. EN-ISO 11654



### Moisture resistance

The plate is form stable at a relative humidity up to 90% and the temperature of 40°C.

### Cleaning and maintenance

The surface of the plate can be cleaned of daily dust and can be wiped with a light damp cloth. However excessive wiping should not cause surface damage, otherwise the plate will lose its performance.

### Antibacterial

The plate has a surface that is treated to eliminate bacteria and fungus/mold. Resistance to fungus has been tested according to ASTM G 21-15. Resistance to bacterial has been tested according to ISO 22196:2011.

### Item number, Dimension and weight

Item number: 86090LD dimension 592x592x40mm  
Item number: 86091LD dimension 592x1192x40mm  
The weight of the plate is approx 3,2 kg/m<sup>2</sup>.

### Environment and availability

The raw material of the plate is fiberglass that made of recyclable glass. Packaging can be recycled. Garbage from the plates can be delivered to municipal landfills after the end of their life.

### Transport information

The product is not classified as dangerous property.

### Thermal insulation

The absorbents have very good thermal insulation.  
Laboratory tested according to EN 13964:2014 class 4.10 & EN 12664:2001.  
Thermal conductivity = 0.033W/(m·K).  
Thermal resistance = 1.191 (m<sup>2</sup>·K)/W.



### Issuer of CE certificate for the product

Element Materials Technology Rotterdam B.V.  
Zekeringstraat 33, 1014 BV, Amsterdam  
Netherlands  
Notified body No. 2812  
Date: 08/06/2020  
Certificate No: 2812-CPR-BC5005  
According to CE regulation: EN 13964:2014



### The product is M1 certified

This means that the product has been tested according to the strongest international requirements for exposure to and non use of toxic ingredients.

There are separate requirements for acoustic products and building materials that must be met in order to obtain an M1 certificate.



### Issuer of M1 certificate for the product

The Building Information Foundation RTS sr  
P.O.B 1004, FI-00101 Helsinki  
Finland

### EPD (Environmental Product Declaration)

The product has finished the LCA (Life Cycle Assessment) report and received EPD (Environmental Product Declaration):

test program: International EPD® systemet [www.environdec.com](http://www.environdec.com)

Programme operator: EPD internasjonale AB

Box 210 60, 100 31 Stockholm, Sweden

EPD registration number/report/certificate: S-P-08557

Date of publication: 06/03/2023

According to: EN 15804+A2 & ISO 14025 / ISO21930

System limit of A1-D (Cradle to Grave)



### Test Report

委托编号 Serial Number: GS22-200092

报告编号 Report Number: GS228-200097

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#### 附件：曲线图、测试图 Annex: Curve of test data , Test picture

#### 1、曲线图 Curve of test data (Balder 40, 200 mm 空腔 Balder 40 with 200 mm airspace)

