

# Eira Circle - Baffel

Absorbent - lydtemper

Datasheet

## Description

The plate has been developed especially with regard to mounting suspended from the ceiling or possibly glued to a wall or ceiling.

The plate has a finely structured surface on all sides. It has particularly good sound absorption and is very sound dampening. It is therefore very suitable for dampening reverberation and noise in all types of areas, for example office and teaching environments, nurseries and rooms with a lot of noise.



## Color and light reflection

Matt black and light reflection is 0 %

White NCS S 0502-R50B light reflection up to 84%

## Installation

The plates are mounted in the ceiling with wire suspension. Suspension consists of spiral screw, wire and attachment hook. The plates do not fit into the traditional T-system.



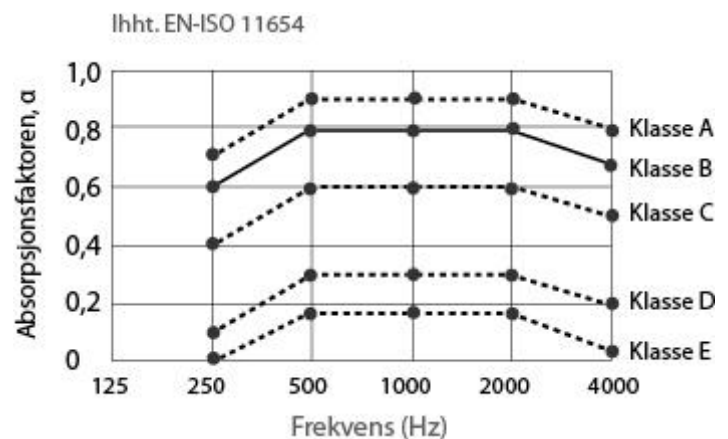
## Edge type

Edge A.

## Acoustic - absorption

The plate is classified as Class A,  
The sound absorption test is according to ISO 354:2003 without air behind the plates.  
NRC = 0,90.

The absorption coefficient ( $\alpha_w$ ) is calculated to 0,90 according to ISO 11654.



## Fire class

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

## Formaldehyd

Class E1 (Indoor product standard).

## 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.

### **Dimension and weight**

Circle: 40x600 mm diameter.

Circle: 40x900 mm diameter.

Circle: 40x1200 mm diameter.

Oval: 110x210 cm.

Baffles and Flat can also be obtained in other shapes on request.

The weight of the plate is approx 4,20 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

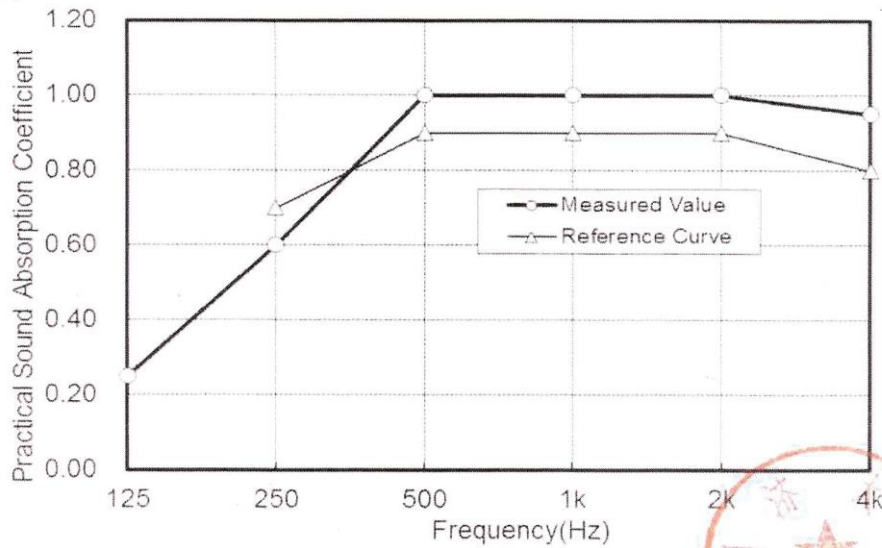
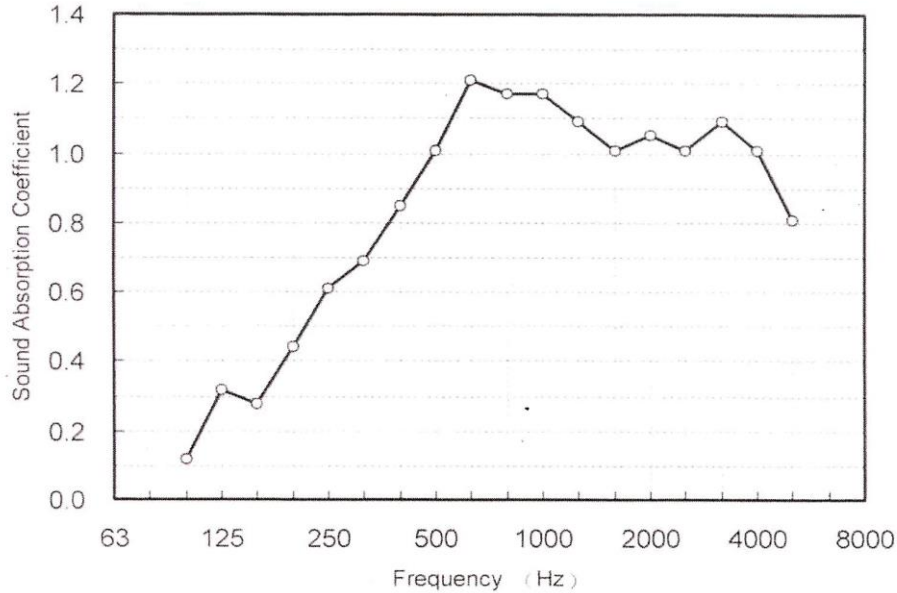
Date of publication: 06/03/2023

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

System limit of A1-D (Cradle to Grave)



Report No: A15-16-1



**13. Conclusion:**

Noise Reduction Coefficient: **NRC = 0.90**

In accordance with GB/T 16731-1997, Sound absorption class is I.

In accordance with EN ISO 11654:1997, Weighted Absorption Coefficient,  $\alpha_w = 0.90$

Sound absorption class is A.

Tested by: Fangying ZHU, Huiming QIAN      Reviewed by: Guorong JIANG

