



# NEO 3Q<sup>®</sup>

DIFFUSION PANEL



Image of 60x60cm model Ref.:N3Q060.

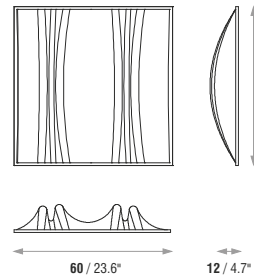
## DESCRIPTION

From many years, the quadratic diffusers became a classic shape in architectural acoustics. JOCABI<sup>®</sup> revisited and made a new design of the oldest project of acoustic diffuser modules. Starting from the same principle of the calculations for Quadratic diffusers, we reviewed it with a new approach and add a new energy flow calculation theory that adds better scattering predicates and advantages. NEO 3Q<sup>®</sup> has a three grade design pattern, making the distribution of energy evenly and balanced within its effective frequency range. The NEO 3Q<sup>®</sup> is designed to provide a more uniform diffusion of the sound reflections radiated against it, mostly in the mid and high frequencies sound field. In cases where the reflections are disturbing the sound image and it is not advisory to add further absorption, diffusers are a very useful solution to reduce flutter echoes, early reflections, comb filtering etc. This model is made of HIPS, with a composite filling of recycled materials, which gives this product a specific mass and also contributes to its consistence. It is available in several different colours by using our fastening materials it can be applied on walls and ceilings, as well as "T" type dropped ceilings.

## FEATURES

- Manufactured with HIPS.
- Average diffusion: **0.67/m<sup>2</sup>** [ $>100\text{Hz}; <5\text{KHz}$ ].
- NRC: **0.10/m<sup>2</sup>** [ $>250\text{Hz}; <10\text{KHz}$ ].
- Fire-resistance: VO - UL94 standards (similar to M2).
- 100% recyclable.
- Installation: accessories included.
- T-Ceiling application.
- Two different shapes (**NEO6Q** and **NEO3Q**).

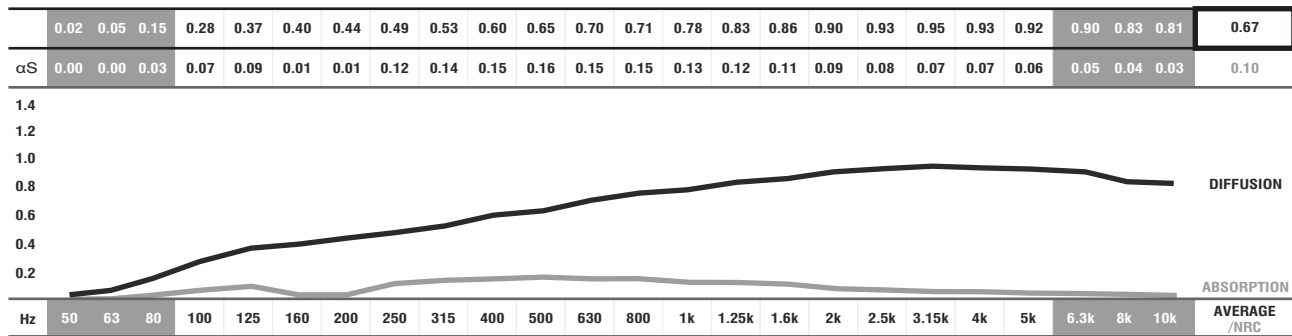
## TECHNICAL DRAWINGS



## MODELS AND SIZES

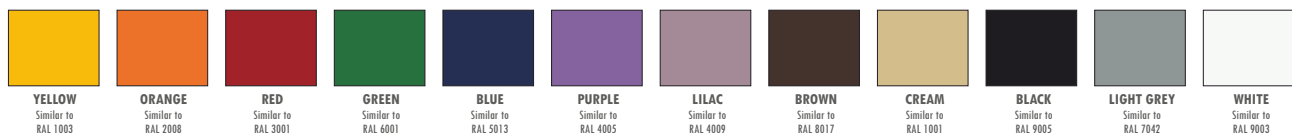
MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
N3Q060	60 cm (23.6 in)	60 cm (23.6 in)	12 cm (4.7 in)	4.3 Kg (9.48 lbs)

## DIFFUSION - ABSORPTION COEFFICIENT



■ ABSORPTION COEFFICIENT: Values in accordance with the standards: EN 20654, ASTM C423 and EN 11654. ■ Values [ $<100\text{Hz}$  and  $>5\text{K}$ ] are Non Standard Values.  
 ■ DIFFUSION COEFFICIENT: These values were obtained by mathematical calculations and tests carried out in our laboratory.  
**Presented values above are based on tests and measurements done with the NEO 6Q model.**

## STANDARD HIPS COLOURS



## IMPORTANT NOTICES

- JOCABI<sup>®</sup> accepts no responsibility for any printing errors. Specifications can be modified without prior notice, if technical or commercial reasons so require.
- RAL<sup>®</sup> is an international independent colour standard system partner for industry, trade, architecture and design. Should be consulted before placing any order.
- The colours shown on this catalogue are only a reference and an illustration of the products finishing. The colours shown are not binding because brightness, contrast and colour balance may vary due to the printing process.
- Colours may vary due to raw-material suppliers' changes and some differences may occur in tonal range.
- Typical Indoor Comfort Standards state a temperature range of 20°C - 27°C (68°F - 81°F), and a relative humidity of less than 60%. These would be considered as normal operational levels of JOCABI<sup>®</sup> products' range.
- Sizes may vary slightly (+/-3mm) due to their production method and some inherent raw-materials characteristics.

