

# Acoustic Mesh

For Applications Large and Small

## The science and art of acoustic weaving

The **science** of weaving is contained in the specifications for OEMs who use our mesh to achieve specific sound attenuation objectives, typically defined by a precise Rayl value and measured with precision instrumentation. In the case of GDW, this is done in real time on the loom multiple times per day to ensure consistency and compliance with customer specifications, from start to finish and from job to job.

The **art** of acoustic weaving is embodied in time-tested techniques developed and perfected by weaving specialists to add value to the product, for instance, by customizing it to customer applications. This includes specialized techniques that enable the mesh to comply to formed shapes by the customer, making it easier to achieve consistent manufacturability and final product quality.

## Made to customer specifications

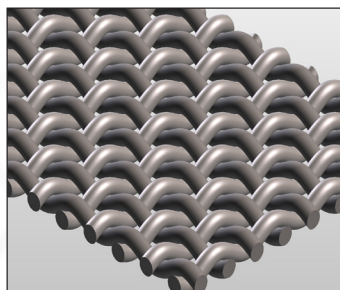
We have the capability to weave acoustic mesh to meet Rayl values in the following standard ranges:

- 3 – 100+ on the CGS scale
- 30 – 1000+ on the MKS scale

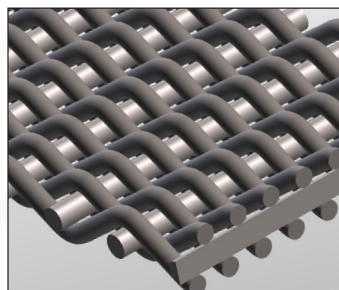
NOTE: When requesting information or a sample, be sure to specify the Rayl standard you want. Also, contact our customer service team to discuss higher value custom screens. The possibilities are virtually endless.

## Weave patterns

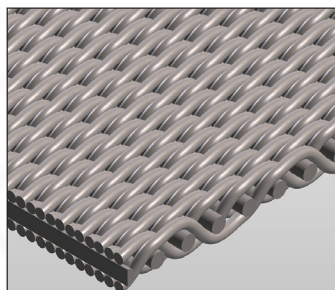
Acoustic mesh can be manufactured from a wide range of mesh types, from plain square mesh with greater open area %, to complex Dutch and Reverse Dutch and Twilled weave patterns designed to produce much finer open area and sound attenuation qualities. The latter are far more common in most acoustic applications. If the customer supplies a sample, we can match it, or we can advise the most suitable mesh depending on the application.



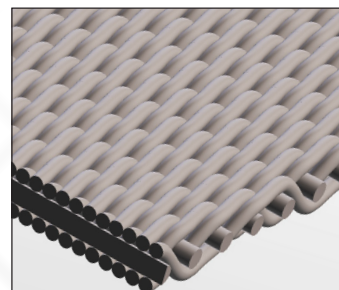
Plain Square Mesh



Plain Dutch Weave



Twilled Dutch Weave



Reverse Dutch Twilled Weave

We can weave to a customer's specific Rayl value and performance requirements and we routinely provide samples free of charge for the customer to evaluate in their applications. Once approved for production, we maintain looms ready on a moment's notice.



### **Acoustic mesh for aerospace**

We provide acoustic mesh to most major international aircraft engine manufacturers and aftermarket users, to meet performance requirements for nacelles and thrust reversers. GDW's quality program has been certified to AS 9100-D since the standard was developed over 20 years ago. We manufacture to all major engine manufacturers' Type 2 Class 2 industry specifications.

Once a prototype has been approved and an order is released for manufacturing, GDW follows the ASEN9102 standard for first article inspection.



### **Other acoustic applications**

GDW has experience with weaving wire mesh for headphones and other smaller acoustic applications. If you have an acoustic application and are looking for a technical partner to produce it for you, contact us today.

Our skilled staff boast an average employment history of 30 years, an accumulation of science and art that contributes significantly to customer value by reducing time to market and meeting ongoing supply chain requirements.