

NAP 'SOUNDLINE' ACOUSTIC TILES

CONSTRUCTION

The NAP 'Soundline' tiles are available in a range of different materials and finishes with a number of different acoustic media depending on the project performance requirements. The standard construction is a powder coated aluminium tile. Powder coated galvanized steel and stainless steel tiles are also available. The aluminium and stainless steel tiles are also available in the natural unpainted finish if preferred. A range of powder coat systems and colours is also available. The sound absorption is provided by a number of different acoustic infill options. These comprise faced fiberglass infill, sealed fiberglass infills or even a high density combustion modified acoustic foam material. The tiles are available with and without infill retaining clips depending on the customer requirements. For further information regarding the extensive range of construction materials and finishes please contact NAP.

INTRODUCTION

The NAP 'Soundline' range of acoustic ceiling tiles has been specifically designed to fit into standard suspended ceiling systems and enables easy replacement of existing non-acoustic tiles. NAP 'Soundline' tiles reduce noise levels in occupied areas and improve speech intelligibility in these spaces. The tiles have been acoustically tested and have been shown to have excellent sound absorbing properties.

Excellent acoustic performance are hallmarks of the NAP product range. They are easy to install on new projects or retrofit into existing suspended ceiling systems. The tiles are lightweight and durable, they also have an attractive appearance and are available in a range of materials and finishes.

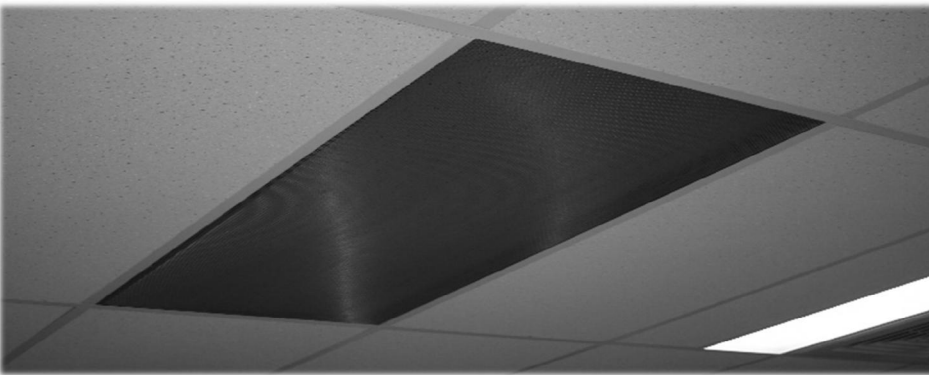
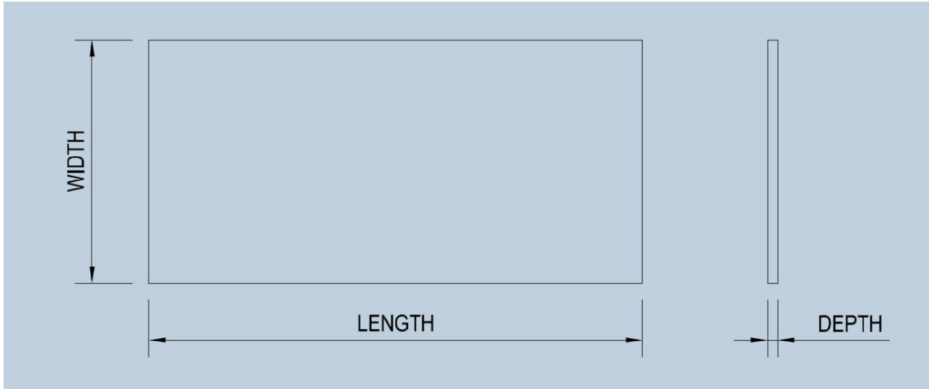
Applications

Offices, Schools, Hospitals, Hotels, Laboratories, Conference Venues, Music Rooms, Sporting Complexes, Libraries, Factories, Theatres, Airports, Cinemas and Apartment Buildings.

DIMENSIONS

The NAP tiles are designed to fit into a standard suspended ceiling system grid that is 600 W x 1200L mm.

The standard panel size is 585 W x 1185 L mm, standard panels are 25mm deep. Note that panels can be made to different sizes if required and half panels and partial panels are also available if required. Please consult NAP for further details.



Installation

Installation of the NAP ceiling tiles is a breeze. The panel is simply fitted into the suspended ceiling system in the same manner as conventional non-acoustic ceiling tiles. This makes it simple to replace non-acoustic tiles on existing suspended ceiling systems with the NAP acoustic tile..



THE EXPERTS IN NOISE CONTROL

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PERFORMANCE

The performance of the NAP Soundline tiles is based on tests carried out in an independent test facility using a reverberation test chamber. Testing has been carried out in accordance with AS ISO 354-2006 Acoustic: Measurement of Sound Absorption in a Reverberation Chamber.

The panels have been tested with a 250mm airspace behind them which is representative of the minimum airspace that would be encountered in a typical suspended ceiling system.

The sound absorption coefficient of the Soundline tiles is shown in the Table below.

| Frequency (Hz) | 25mm Thick Scrim Faced Fibreglass Tile | 25mm Thick Melinek Faced Fibreglass Tile | 25mm Thick Faced Acoustic Foam Tile |
|-------------------|---|--|--|
| | α | α | α |
| 400 | 0.788 | 0.725 | 0.704 |
| 500 | 0.801 | 0.745 | 0.831 |
| 630 | 0.700 | 0.640 | 0.807 |
| 800 | 0.758 | 0.752 | 0.798 |
| 1000 | 0.929 | 0.889 | 0.910 |
| 1250 | 0.994 | 0.912 | 1.052 |
| 1600 | 1.018 | 0.909 | 0.995 |
| 2000 | 1.012 | 0.907 | 0.995 |
| 2500 | 1.021 | 0.884 | 0.954 |
| 3150 | 1.009 | 0.842 | 0.939 |
| 4000 | 1.024 | 0.775 | 0.918 |
| 5000 | 1.000 | 0.792 | 0.927 |
| 6300 | 1.015 | 0.729 | 0.930 |
| 8000 | 1.001 | 0.665 | 0.957 |
| 10000 | 1.015 | 0.605 | 0.951 |