

JCW V Groove PreFab



Datasheet 44.1

Domestic Acoustic Fencing

Easy to specify timber fencing system for domestic environments



What is Noise?

Noise, by definition, is unwanted sound. It can be annoying, interfere with communications, affect leisure or relaxation activities and at the most extreme it can cause hearing loss and even mental health or physiological symptoms. The intensity of noise is measured in decibels (dB). Timber structures and barriers are excellent absorbers of sound helping to reduce noise levels in a wide range of applications.

V Groove PreFab Proven Noise Reduction Performance

JCW is a leading supplier of industrial acoustic fencing systems for Highways Agencies through the NoiseStop range. The new V Groove PreFab system incorporates all the proven technologies from NoiseStop but with a focus on a cost effective option for domestic environments.

V Groove PreFab has been independently tested by Salford University to Highways England requirements - BS EN 1793 Road Traffic Noise Reducing Devices. The average reduction achieved with the V Groove PreFab system in the laboratory tests was 25dB, giving the highest rating of B3 - the rating required for highways schemes.

Typical Sound Levels Found in the Environment

| Sound Level dB (A) | Location |
|--------------------|----------------------------|
| 0 | Threshold of hearing |
| 20 - 30 | Quiet bedroom at night |
| 30 - 40 | Living room during the day |
| 40 - 50 | Typical office |
| 50 - 60 | Inside a car |
| 60 - 70 | Typical high street |
| 70 - 90 | Inside factory |
| 100 - 110 | Burglar alarm at 1m away |
| 110 - 130 | Jet aircraft on take off |
| 140 | Threshold |



Domestic Dwellings | Offices | Hotels | Conference Centres | Leisure Centres | Schools | Restaurants | Showrooms



Unit 32-34 Waters Meeting Development
Britannia Way, Bolton, BL2 2HH

Sales helpline **01204 548400**
8.30am - 5.00pm Monday to Friday

sales@acoustic-supplies.com
www.acoustic-supplies.com

V Groove PreFab System

The **V Groove PreFab** system is simple to specify and install, even on uneven ground and sloping sites. The solid timber panels simply fix to the timber posts or slot into the concrete posts. Manufactured from solid interlocking Pine boards the **V Groove PreFab** panels are all **1.83m (6 feet)** in width.

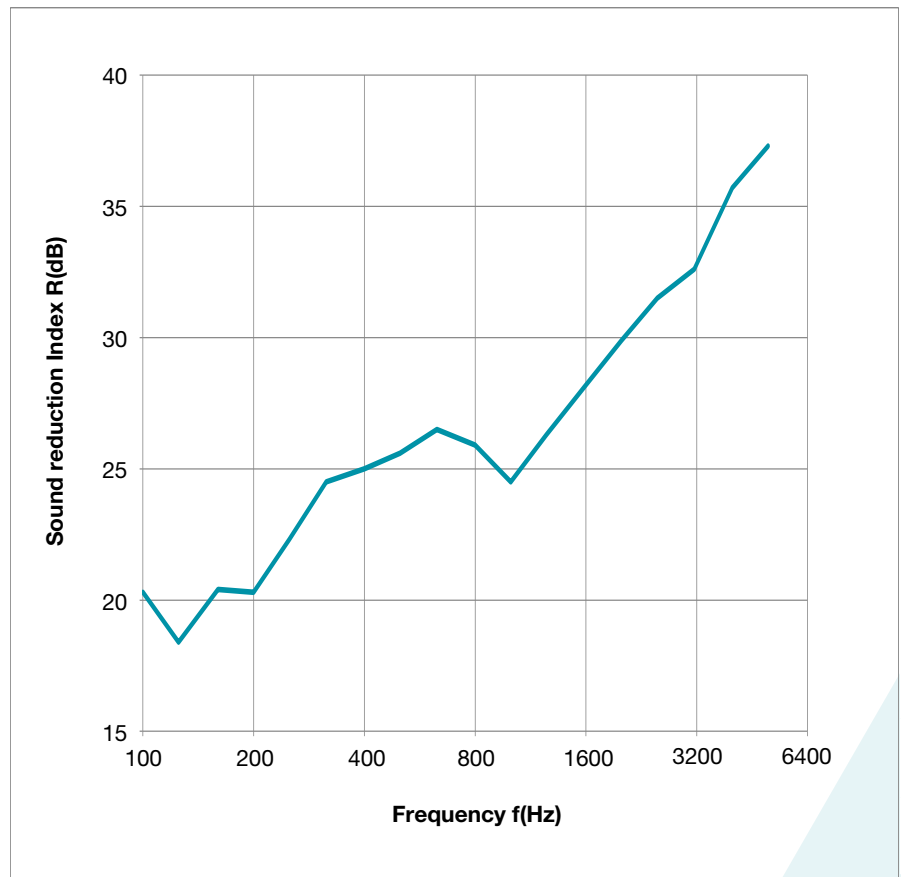
The height of the panels range from **900mm** up to **2000m** and there are **trellis options** when required to provide a decorative finish to the tops of the panels. The panels have gravel boards on the base designed to give premium long term performance even in ground contact situations. All **V Groove PreFab** projects are supplied with stainless steel fixings that will match the long life performance of the preservative treated timbers.

| Frequency HZ | R |
|--------------|------|
| 100 | 20.3 |
| 125 | 18.4 |
| 160 | 20.4 |
| 200 | 20.3 |
| 250 | 22.3 |
| 315 | 24.5 |
| 400 | 25.0 |
| 500 | 25.6 |
| 630 | 26.5 |
| 800 | 25.9 |
| 1000 | 24.5 |
| 1250 | 26.3 |
| 1600 | 28.2 |
| 2000 | 29.9 |
| 2500 | 31.5 |
| 3150 | 32.6 |
| 4000 | 35.7 |
| 5000 | 37.3 |

Proven Long Term Protection

All the timbers used on the **V Groove PreFab** system are **preservative treated Pine**. They are high pressure treated within JCW's own treatment facilities with next generation **TANALITH wood preservative**, the leading choice for the long term protection of exterior timbers against the threat of wood decay and insect attack. Using Pine allows a superb penetration and distribution of the preservative into the timbers. Also the timber posts and the gravel boards are **surface incised** to provide an even more **assured performance** from these critical **ground contact** components.

This tried and tested protection against decay organisms ensures all the **V Groove PreFab** components have a **20 years desired service life**.



- Significantly reduces surrounding traffic noise adding real value to properties
- Independently tested to Highways England BS EN 1793 requirements giving highest B3 performance rating
- Machine finished Pine interlocking tongue and grooved panels preventing sound leakage
- Panels 1.83m wide with a choice of heights: 900mm, 1200mm, 1500mm, 1800mm and 2000mm
- Trellis panels available for decorative header options
- Timbers preservative treated to meet Use Class 4 (ground contact) requirements giving 20 years desired service life and maintenance free performance
- Panels incorporate incised and treated gravel board for ground contact
- Choice of incised treated timber posts or concrete posts
- Supplied with stainless steel fittings
- Recommended installers throughout the UK that can provide a professional service using V Groove PreFab

Helping Create Better Everyday Environments

It is estimated that around 40% of the UK population is exposed to road traffic noise during the day time of about 55dB and 20% are exposed to higher levels over 65dB. The problem increases when engine speeds change, for instance on hills, at lights or at crossroads.

There is a growing body of evidence concerning the adverse effects noise can have on health and general quality of life. Current evidence indicates that prolonged exposure to high levels of noise can lead to mental health and physiological symptoms.

The V Groove PreFab system is a proven and simple solution that can help home owners, house builders and local authorities manage traffic noise issues.

Domestic Dwellings | Offices | Hotels | Conference Centres | Leisure Centres | Schools | Restaurants | Showrooms



Unit 32-34 Waters Meeting Development
Britannia Way, Bolton, BL2 2HH

Sales helpline **01204 548400**
8.30am - 5.00pm Monday to Friday

sales@acoustic-supplies.com
www.acoustic-supplies.com