

CHARLES RANSFORD & SON
TIMBERSPECIALISTS SINCE 1876



Noisewall Single Sided Reflective Noise Barrier

For use in

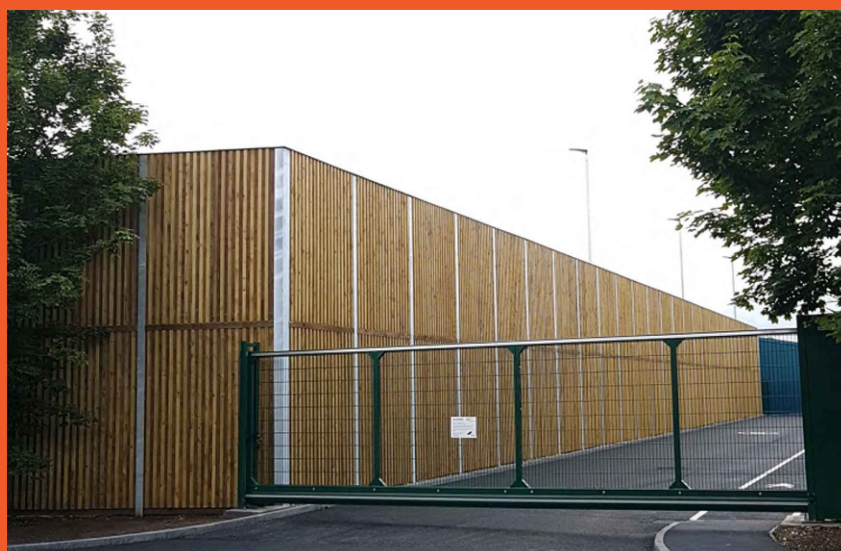
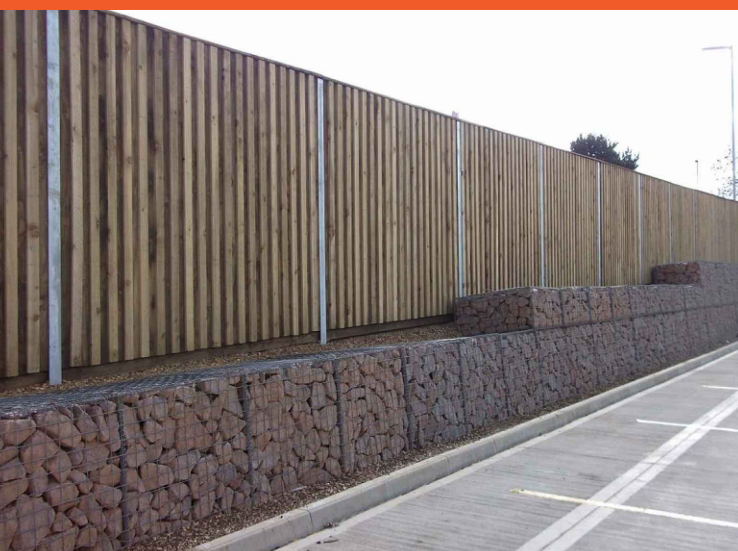
Highways - Railways - Industrial - Residential - Schools / Sports Venues

TECHNICAL DATA

- Category B3
- Category rating according to BS EN 1793-2:1998
- Laboratory tested sound reduction up to 29dB
- Approximate weight = 27kg/m²
- Standard superficial mass = 11.66kg/m²

When comparing this data it is important to check how the superficial mass has been calculated. It can be calculated and referred to in different ways and some comparative data may show higher numbers when in fact the product is inferior.

In our case we take the thinnest solid section of the barrier (22mm) and multiply this by the density of the timber (0.53 for douglas fir) 22mm x 0.53 = 11.66kg/m²



The Ransfords range of noise barriers are:

- Independently tested to recognised standards.
- Value engineered using advanced sawmill technology.
- Available with CE marking for prefabricated panels when specified.
- Proven in use near roads, railways, manufacturing and distribution facilities.
- Extremely durable with a 30 year desired service life.
- Available in both reflective and absorbent specifications.
- Aesthetically pleasing.
- Fully compliant with Highways Agency Standard treatment.
- Made in the UK from sustainable British material.
- Manufactured by a rural-based enterprise providing important employment and other opportunities both in the forest and in the sawmill.

Luke Offa

T: 07876 826022

E: luke@ransfords.co.uk

Luke covers the Home counties

Contacts

Chris Offa

T: 07741 272267

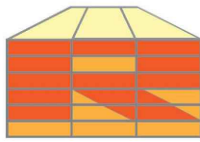
E: chris@ransfords.co.uk

Chris covers Wales, the Midlands and South West England

Station Street, Bishops Castle, Shropshire SY9 5AQ

T: 01588 638 331 E: info@ransfords.co.uk

www.ransfords.co.uk

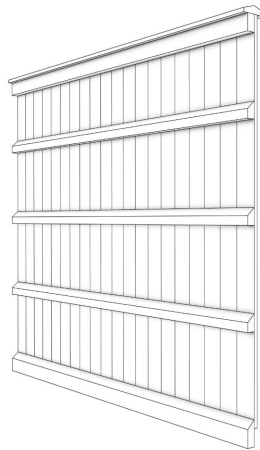
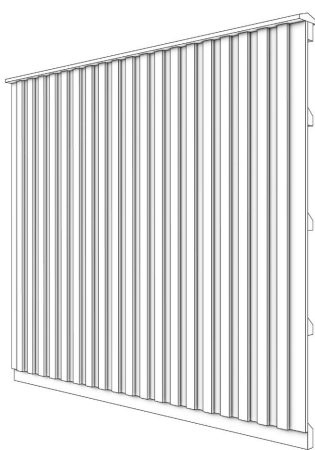
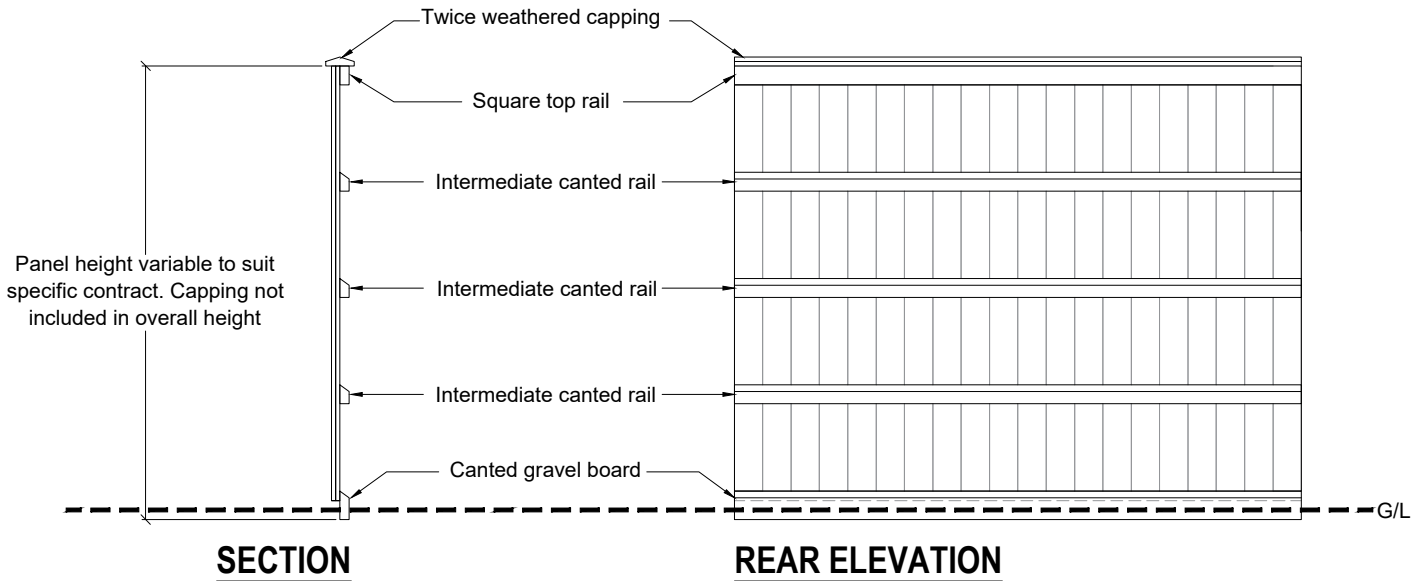


CHARLES RANSFORD & SON
TIMBERSPECIALISTS SINCE 1876

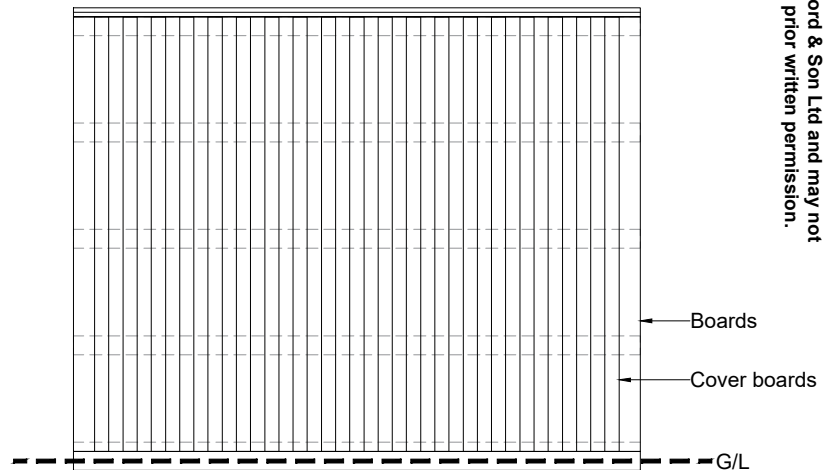


Noisewall Single Sided Reflective Noise Barrier

Standard Detail



3D VIEWS



IMPORTANT NOTES:

1. The design of the noise barrier is dependant on individual specifications and this drawing is shown for illustrative purposes only.
2. The exact design criteria should be specified by a professional designer and qualified for intended purpose by a structural engineer. Any structural requirements must be specified prior to manufacture. Strength graded timber is available on request.
3. The Noise barriers can be installed on timber or steel posts. Post sizes must be specified by a structural engineer to suit the specific contract. The method used for fixing the noise barriers to the posts is the responsibility of the customer.
4. Charles Ransford and Son Ltd do not take responsibility for any persons adopting this design as a structure without seeking professional advice first. Charles Ransford and Son Ltd are manufacturers and operate on the principle of supply what is ordered. It remains the customers responsibility to ensure ordered materials are adequate and fit for purpose for the intended application.

This drawing is the property of Charles Ransford & Son Ltd and may not be copied or reproduced in any way without prior written permission.

Luke Offa

T: 07876 826022

E: luke@ransfords.co.uk

Luke covers the Home counties

Contacts

Chris Offa

T: 07741 272267

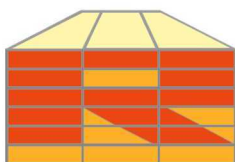
E: chris@ransfords.co.uk

Chris covers Wales, the Midlands and South West England

Station Street, Bishops Castle, Shropshire SY9 5AQ

T: 01588 638 331 E: info@ransfords.co.uk

www.ransfords.co.uk



CHARLES RANSFORD & SON
TIMBERSPECIALISTS SINCE 1876

T: 01588 638331 F: 01588 638853 E: info@ransfords.co.uk

Issued by University of Salford (Acoustics Test Laboratory)
UKAS ACCREDITED TEST LABORATORY NO. 1262

BS EN 1793-2 : 1998

Acoustics - Road traffic noise reducing devices

Test method for determining the acoustic performance

Client: Charles Ransfords & Son Ltd
Station St
Bishop's Castle
Shropshire SY9 5AQ

Object: Noisewall® - Single Sided Reflective Barrier with Vertical Boards & Cover Strips

Source room:

Volume: 136m³

Condition: clean

Type: small reverberation room

Location: acoustic transmission suite

Receiving room:

Volume: 220m³

Condition: clean

Type: large reverberation room

Location: acoustic transmission suite

Temperature (°C): 21.1

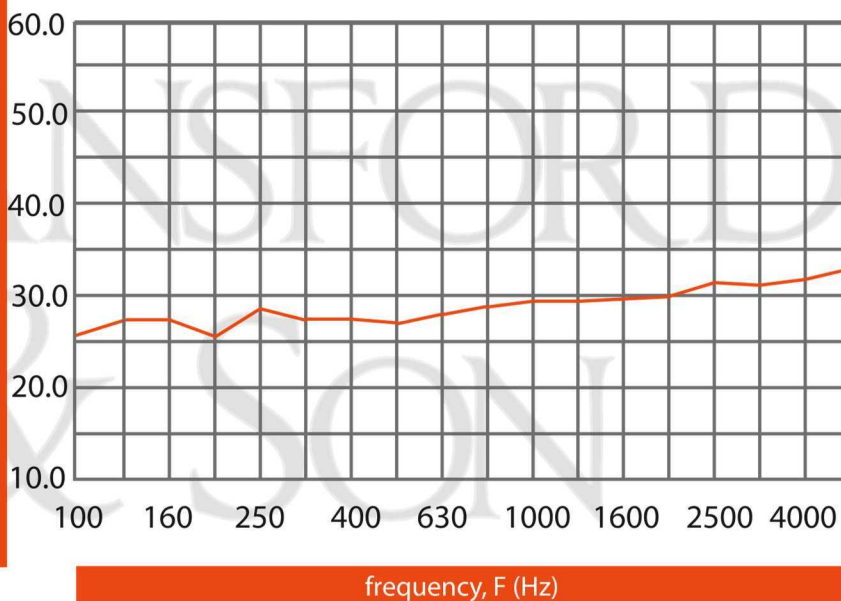
Humidity (%): 53.4

DL_R = 29

Category: B3

Frequency Hz	R
100	25.5
125	26.6
160	26.9
200	25.9
250	28.1
315	27.4
400	27.7
500	27.0
630	28.4
800	28.8
1000	29.1
1250	29.0
1600	29.4
2000	30.0
2500	32.1
3150	31.8
4000	32.6
5000	33.0

Sound reduction index, R (dB)



Test reference number: 44-18

Date: 17/06/10

University of Salford, School of Computing, Science & Engineering

SSV1