



**EKHO**

INFRASTRUCTURE  
SOLUTIONS

# DURISOL ABSORPTIVE NOISE BARRIER SYSTEMS

Industry leading noise absorptive precast concrete technology.

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A new horizon of infrastructure possibilities

[ekhois.com](http://ekhois.com)



**+40**  
YEAR  
SERVICE LIFE

# Industry-Leading Noise Walls

Durisol® has been leading the way in absorptive noise wall technology for over 70 years. With no wall ever replaced, this is the most reliable system for even the hard to obtain noise compliance requirements.

When specifying absorptive barriers, Durisol sound-insulating qualities reduces sound levels.

An engineered noise wall system specified time and again for its versatility and quality. Completely customizable to the wall design, we can reach required heights, lengths and unique design integrations.

## A TRUSTED BRAND

Durisol is the proprietary name of a durable, lightweight precast concrete material. Composed of natural and recycled material, it is a more sustainable alternative to standard concrete. Made of chemically neutralized and mineralized organic softwood shavings which are specially processed to an acoustically engineered size. When bonded together under pressure with Portland cement, an absorptive panel is born.

## FEATURES & BENEFITS

- Noise absorptive of 0.70 - 0.90 NRC\*
- Up to 46 STC Rating
- Lightweight & easy to install
- Non-combustible
- Vermin & rot-proof
- Freeze-thaw resistance
- Double sided or single sided noise absorptive panels

## TYPICAL APPLICATIONS

- Roads & highways
- Railway corridors
- Building enclosures or barriers
- Utility substations
- Residential developments
- Industrial & commercial sites
- Anywhere noise is an issue



A unique surface designed for optimal noise reduction.



ASK US ABOUT CUSTOM BRICK PATTERNS AND CAPABILITIES



ASK US ABOUT THE MOST EFFICIENT WALL SYSTEM FOR YOUR PROJECT



ASK US ABOUT OUR CRASH RATED SYSTEMS



ASK US ABOUT OUR STRUCTURE MOUNTED SYSTEMS

## NB12 SYSTEM

The NB12 is a post and precast panel noise barrier system with standard centre-to-centre post spacing up to 12ft (3.63m). The NB12 system can be engineered for wall heights up to 33ft (10m) or more. Panel lengths accommodate up to 12ft (3.63m) long by 20in (0.5m) high.

The standard NB12 panel system is sound absorptive on both sides with an optional integrated traffic barrier. It can also incorporate single sided absorptive or reflective retaining wall panels or transparent elements.

The NB12 system is flexible in many ways. It is ideal for slope conditions, directional changes, and difficult site access situations. Precast panels can easily be modified for short bays on site.

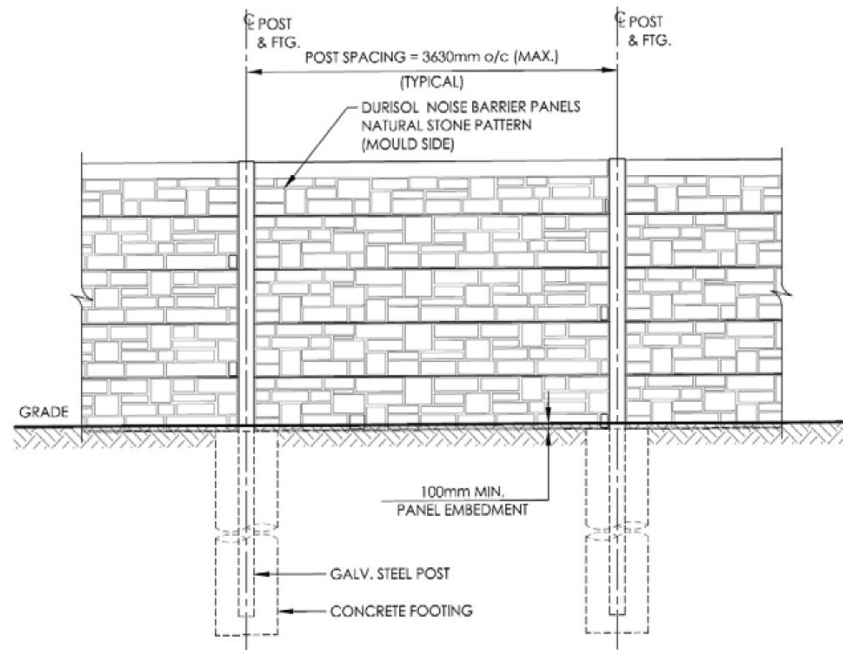
## NB15 SYSTEM

The NB15 is a post and precast panel noise barrier system with standard centre-to-centre post spacing being 15ft (4.56m). The NB15 system can be engineered for wall heights up to 43ft (13m) or more. Panel lengths accommodate up to 15ft long by 18-48in high.

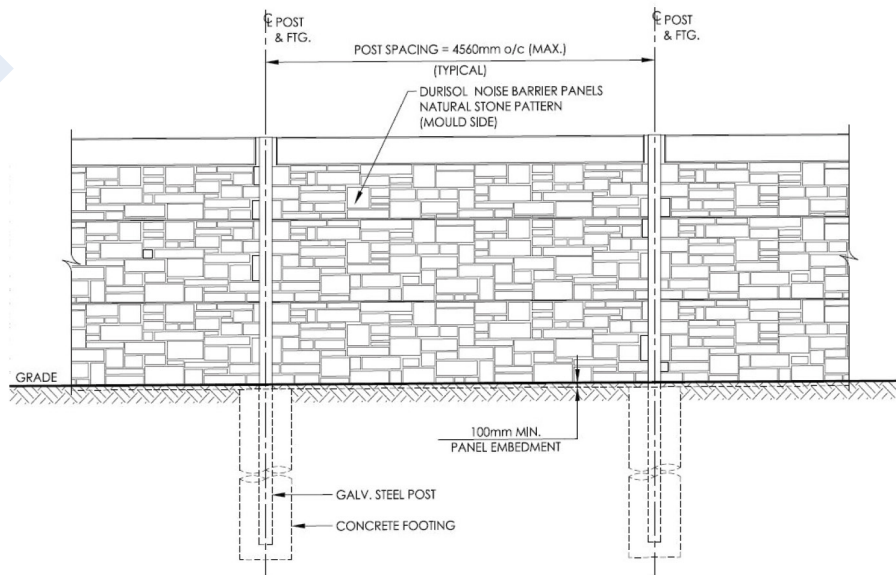
The standard NB15 system is noise absorptive on one or both sides. It can also incorporate transparent elements, and integrated retaining wall panels.

The NB15 system offers 20% fewer posts than the NB12 system, which can result in meaningful cost savings depending on soil conditions and project requirements.

NB12 Simplified Technical Drawing



NB15 Simplified Technical Drawing



## NB20 SYSTEM

Typical patterns consist of plain or natural stone. The NB20 system offers noise absorption on both sides of the wall.

This is the longest post spacing offering double-sided sound absorption. NRC 0.8 achievable on each side.

The NB20 system can allow for installation efficiencies where site conditions require long straight runs with minimal grade changes.

## NB24 SYSTEM

The NB24 is a custom post and precast panel noise barrier system with customized bay spacing allowing for posts to be 24ft (7.3m) centre-to-centre. Precast posts are an available option to wide flange HDG steel posts.

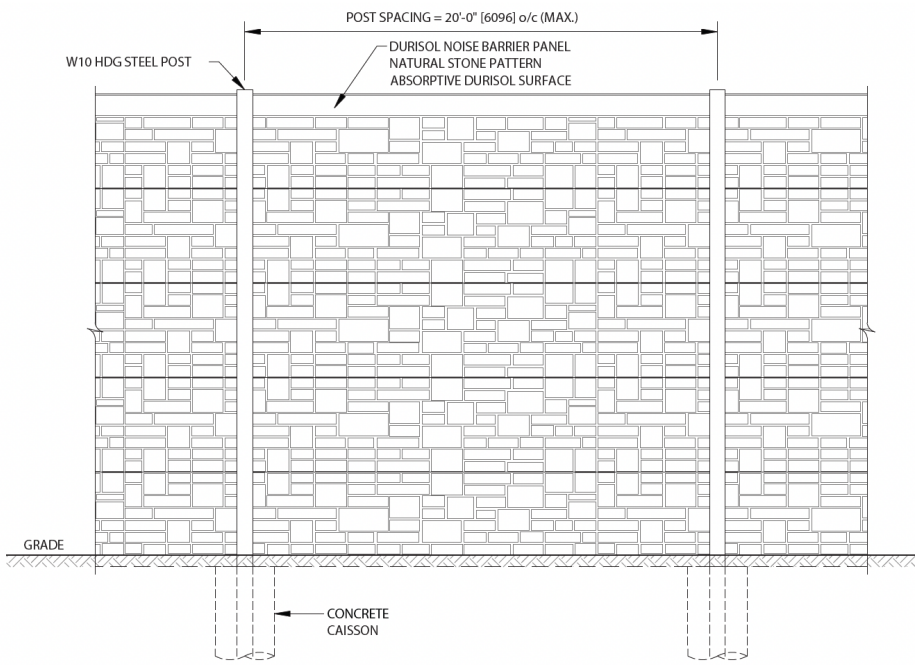
The NB24 system can be engineered for wall heights up to 36ft (11m) or more. Custom precast panels are available up to 24ft (7.3m) long by 84in (2.2m) high.

The NB24 system offers noise absorption on one side. It can also incorporate transparent elements, and integrate retaining wall panels.

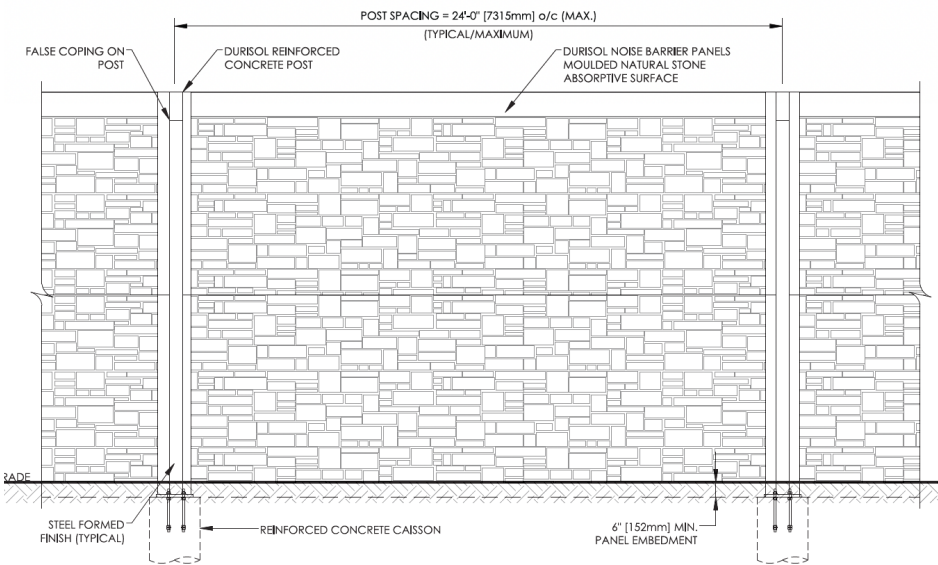
The NB24 system offers the longest post spacing of Durisol's systems which can result in meaningful cost savings for projects including straight runs of the wall with minimal grade change.

The NB24 system is ideal for long straight runs of wall with minimal sloping grades where noise absorption is required on one side of the wall.

NB20 Simplified Technical Drawing



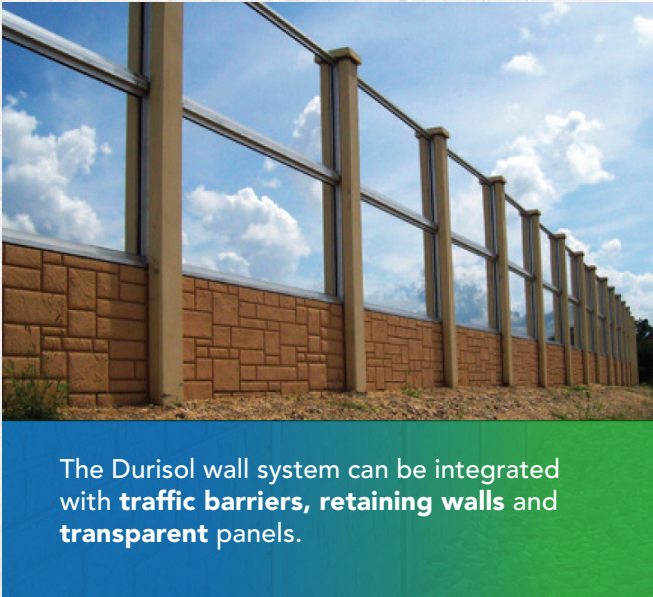
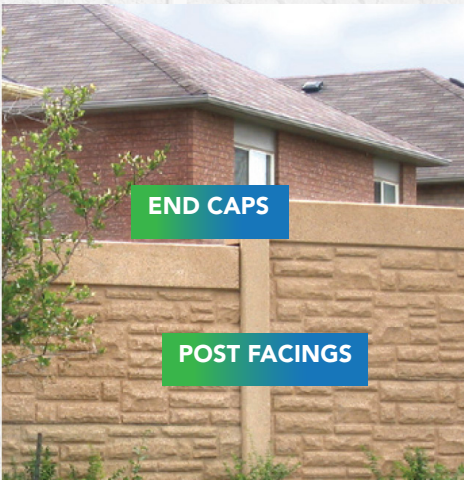
NB24 Simplified Technical Drawing



**Our Standard Noise Barrier Systems are designed for ease of design, transportation, and installation, but our in-house engineering capabilities do not limit us. We customize to every project.**

# Standard Accessories and Customization

Durisol has developed an impressive range of necessary accessories and custom designs beyond our standard steel post and precast panel systems when a particular aesthetic needs to be achieved. An impressive range of accessories can be customized to any functional service or aesthetic.



## Finishing Touches

- Vehicle access gates
- Man doors
- Drainage openings and grates
- Fire hose access openings
- Flood control panels
- Pedestrian walkway entrances
- Custom feature sign
- Painted posts

# Standard Patterns & Colours

Our Durisol precast panels offer the same versatility as precast concrete. Choose from our standard patterns and colours below as a starting point, select from existing design inspiration, or work with our experts to create a look that has never been done before.

## Patterns

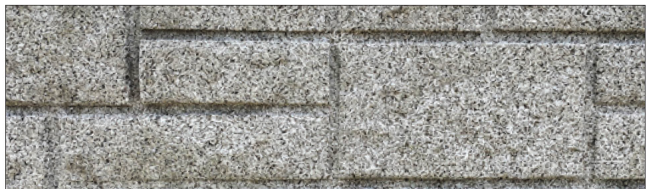
Our standard patterns are based on our most basic molds available for the most efficient turnarounds. Please contact us for your custom pattern inquiries.

### Standard Panel Length Patterns

#### NB12 & NB15



PLAIN FLAT



NATURAL STONE



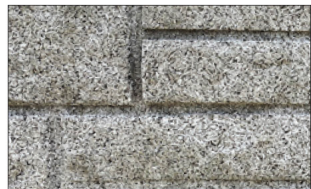
ASHLAR 2 BLOCK

### Custom Panel Length Patterns

#### NB20



PLAIN FLAT

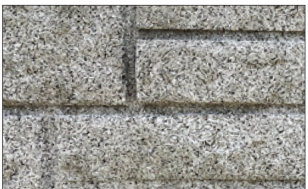


NATURAL STONE

#### NB24



PLAIN FLAT



NATURAL STONE



ROLLED ASHLAR

## Colours

A collection of our most popular colours, the 6 swatches here are timeless options that blend seamlessly into the surrounding environment.



1004B NATURAL



1082D TAN



1538B GREY



02589 TAN



09187 GREY



11988 BROWN

Durisol's absorptive texture creates colour dimension and variation. It should also be noted that wall colours will vary during the day as they go from sun to part-sun to shade. Samples available upon request.



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**NPCA**



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