



[DURISOL.COM](https://durisol.com)

# DURISOL PRECAST NOISE BARRIER PRODUCT GUIDE

SOUND-ABSORPTIVE WALLS MADE OF OUR INDUSTRY-RECOGNIZED  
DURISOL MATERIAL

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LIGHTWEIGHT PRECAST

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POST & PANEL SYSTEM

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SOUND ABSORBING

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95% RECYCLED MATERIAL

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40+ YEAR SERVICE LIFE

## INDUSTRY-LEADING NOISE WALL

Durisol has been leading the way in absorptive noise wall technology for over 68 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. In areas where noise is not the primary concern and privacy or security is more critical, a reflective product can be integrated seamlessly.

Completely customizable to the wall design, we can reach required heights, unique lengths and design integrations.

## A TRUSTED BRAND

Durisol® is the proprietary name of a durable, lightweight precast 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.

All Durisol® noise barrier systems are manufactured in a National Precast Concrete Association (NPCA) certified plant and engineered in-house by a team of noise and retaining wall experts.



## TYPICAL APPLICATIONS

- Roads & highways
- Railway corridors
- Building enclosures or barriers
- Utility substations
- Residential developments
- Industrial & commercial sites

## FEATURES

- Noise absorptive of 0.70 - 0.90 NRC\*
- 46 STC Rating
- Lightweight & easy to install
- Non-combustible
- Vermin & rot-proof
- Freeze-thaw resistance



Watch our Durisol manufacturing tour on our **You Tube Channel**





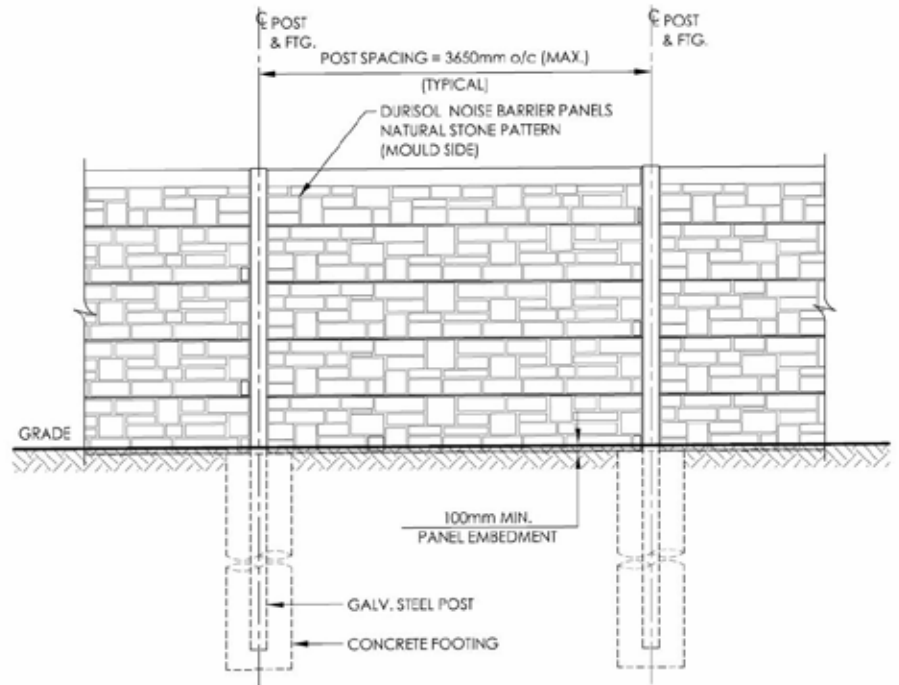
## NB12 SYSTEM

The NB12 is a post and precast panel noise barrier system with standard centre-to-centre post spacing of **12ft (3.65m)**. The NB12 system can be engineered for wall heights up to 33ft (10m) or more. Panels are a standard size of 12ft (3.65m) 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.

### Simplified technical drawing



## 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. Precast panels are a standard size of 15ft (4.57m) long by 18-48in (0.46-1.22m) high.

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

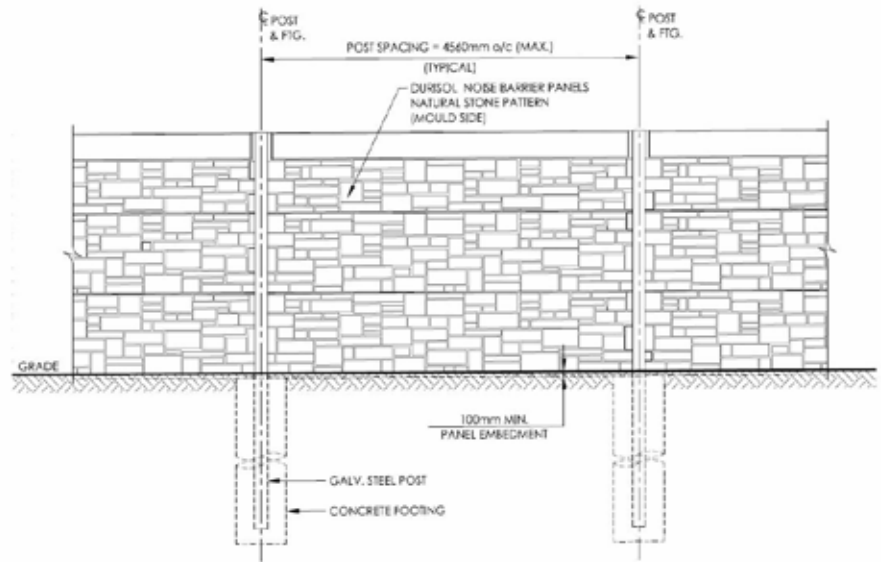
The NB15 system offers 20% fewer posts than the NB12 system, which can result in meaningful cost savings depending on soil conditions and other required wall system elements.



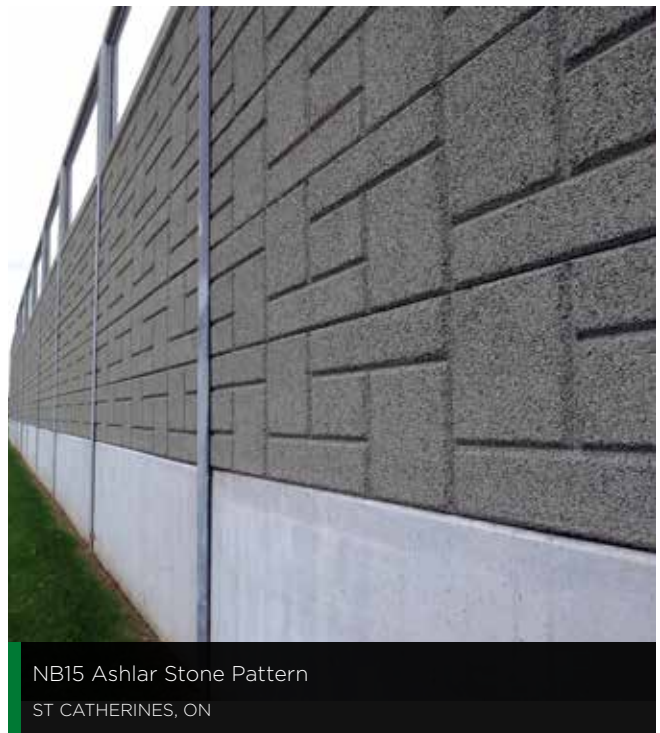
Durisol's NB15 system offers a **Durisol® Firestop System**

For more information, check out our **Fire Rated Barriers Brochure** on **Durisol.com**

### Simplified technical drawing



Durisol® FireStop System  
TORONTO, ON



NB15 Ashlar Stone Pattern  
ST CATHARINES, ON

## NB24 SYSTEM

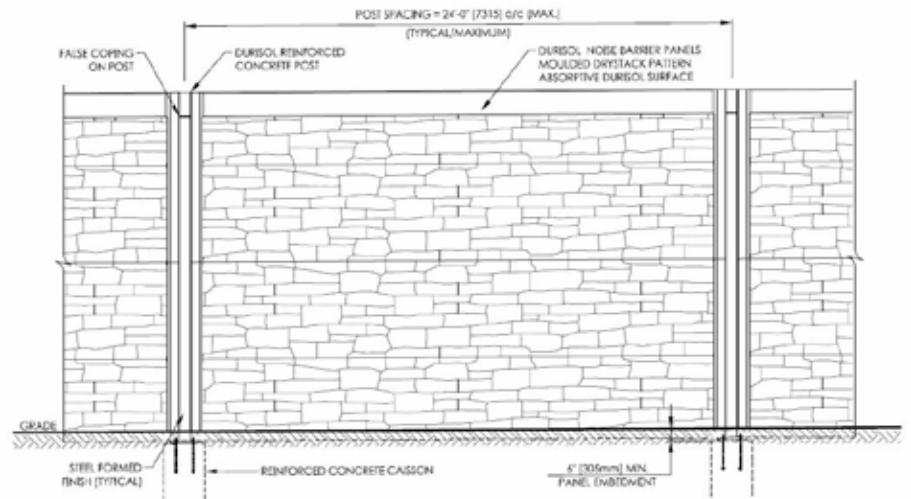
The NB24 is a post and precast panel noise barrier system with customized bay spacing allowing for posts to be **24ft (7.3m)** centre-to-centre. Precast posts are standard option with wide flange HDG steel posts.

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 has noise absorptive 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 depending on soil conditions and other required wall elements.

The NB24 system is ideal for long straight runs of wall with minimal sloping grades where noise absorption is not required on one side of the wall.

### Simplified technical drawing



NB24 Custom Grasslands Pattern  
TORONTO, ON



NB24 Drystack Pattern  
OHIO, USA



## CUSTOM OPTIONS

With over 40 years of experience designing and manufacturing noise and retaining walls, Durisol has developed an impressive range of accessories and custom designs beyond our standard steel post and precast panel systems when a particular aesthetic needs to be achieved.

### POST ACCESSORIES

**LEGEND:**

- 1. Pier Caps
- 2. Piers
- 3. End Caps
- 4. Post Facings



### FUNCTIONAL ACCESSORIES

In addition to Durisol's wide range of standard textures and patterns, custom systems can be developed to suit almost any aesthetic or functional requirement. Durisol's experienced in-house team of engineers and professionals can assist designers, specifiers and owners at the project design stage to develop a custom solution where required.

The most common accessories include:

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



VEHICLE ACCESS GATE



SIGNATURE PANELS



The Durisol wall system can be integrated with **traffic barriers, retaining walls** and **transparent** panels.

## 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.



### COLOURS

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



**\*Use this palette as a guide only.** 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.

Drawings and product details are for information and/or illustrative purposes only, and may vary.  
Please contact your local Durisol representative for the most current product information.  
\*NRC rating is based on surface pattern and panel thickness.



As industry leaders, Durisol® models the highest standards of noise & retaining wall systems to serve the robust needs of the transportation, building and energy sectors across North America.

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