

# DONCHAMP® NoiseGuard

## Integrated Solutions – Acoustic Barriers

### DONCHAMP® NoiseGuard Colors

#### DONCHAMP® NoiseGuard Colour Code

7536  
0399  
0507  
0349  
0601  
0603



#### Grades available:

- **DONCHAMP® NoiseGuard** (Gloss surface finish)
- **DONCHAMP® NoiseGuard FSR** (Filament Shard Retention)
- **DONCHAMP® NoiseGuard Velvet** (Satin finish 1 or 2 sides)



#### Color Availability:

Clear / transparent - tints / translucent & opaque.

#### Filament Colors:

Black, Clear/Natural.

#### Current Surface Finish:

High Gloss      Velvet/satin (V1-1 side or V2- 2 sides) finish.

#### Std. Dimensions/panel sizes:

2000mm x 3000mm      2000mm x 4000mm  
2000mm x 5000mm      2300mm x 4000mm

#### Standard thicknesses:

12.0mm, 15.0mm, 18.0mm, 20.0mm and 25.0mm

#### Masking:

Pressure Sensitive PE film.

All the information provided within this document and any further related technical DONCHAMP® advice, is based on testing conducted & well-established industry knowledge. This information is supplied as a suggested reference only & it does not alter the obligation of the customer/end user to conduct their own inspection and testing of any products supplied by DONCHAMP®. It is suggested that the performance of the product/products referenced are further verified by the customers/end users individual testing, where DONCHAMP® suggests this to be conducted by an accredited testing authority, where this is the sole responsibility of the customer/end user. No warranty/guarantee is relating to the properties within this document, whether noted or otherwise implied. DONCHAMP® advises that we reserve the right to make any changes in accordance to new developments in technology. Any reference to trade names/trademarks is not endorsed by DONCHAMP® & any deemed suggested similar products, are not thereby approved by DONCHAMP® to be used. Please note the DONCHAMP® accepts no liability or any other legal responsibility, relating to any current third-party intellectual property & or patent rights.

## DONCHAMP® NoiseGuard

### Case reference

<i>Project Location:</i>	Circle Thruway of Suzhou City China
<i>Material:</i>	DONCHAMP® NoiseGuard FSR (Filament Shard Retention) Cast Acrylic
<i>Colour:</i>	Clear
<i>Filament Colour:</i>	Black
<i>Panel Size:</i>	2500mm x 1500mm x 15.0mm
<i>Panel Quantity:</i>	2500m <sup>2</sup>
<i>Protective Masking:</i>	PE Masked 2 side



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**Contact us**

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## DONCHAMP® NoiseGuard Case reference

25-11-19

<i>Project Location:</i>	Highway No.6 Motorway in Nakornratchasima, Thailand
<i>Material:</i>	DONCHAMP® NoiseGuard FSR (Filament Shard Retention) Cast Acrylic
<i>Colour:</i>	Clear
<i>Filament Colour:</i>	Black
<i>Panel Size:</i>	2000mm x 2000mm x 15.0mm
<i>Panel Quantity:</i>	400 panels
<i>Protective Masking:</i>	PE Masked 2 sides



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*Acrylic Sheet & Block –  
The transparent solution  
is specialty glazing.*



### **PRODUCT RANGE:**

1. Cell Cast Acrylic
2. Eco Friendly Acrylic
3. Large Format Acrylic
4. UV Filtering Acrylic
5. Abrasion/Mar Resistant
6. LED Grades
7. Black/White colour variation
8. 2 Sided Satin Finish
9. Colored Edge Finish
10. Noise Barrier Glazing
11. Cast Acrylic Block – Aquatic Glazing
12. Sanitaryware Acrylic



# Acrylic sheet & block-

## Leading technology enabling new designs....

### Acrylic Sheet / Block :

Long established glazing substrate, recognized for optical clarity, longevity & mechanical properties.

### Advantages:

- Excellent light transmission and optical brilliance with a consistent quality.
- Extremely high weather resistance, 30-year UV guarantees available on Clear.
- Ease of fabrication, high bonding strength enabled between surfaces.
- Good surface hardness.
- Low weight - half the weight of glass / 11 times the impact strength of glass.
- 100% recyclability.
- Integrated fabrication & thermoforming capabilities available.
- Numerous stocked thicknesses.
- Capabilities of up to 750.0mm & beyond.

**Surface Finish:** High Gloss/Satin/Matt-Velvet/Anti-Reflective/Texture.

**Colours :** Numerous colours & colour matching is available.

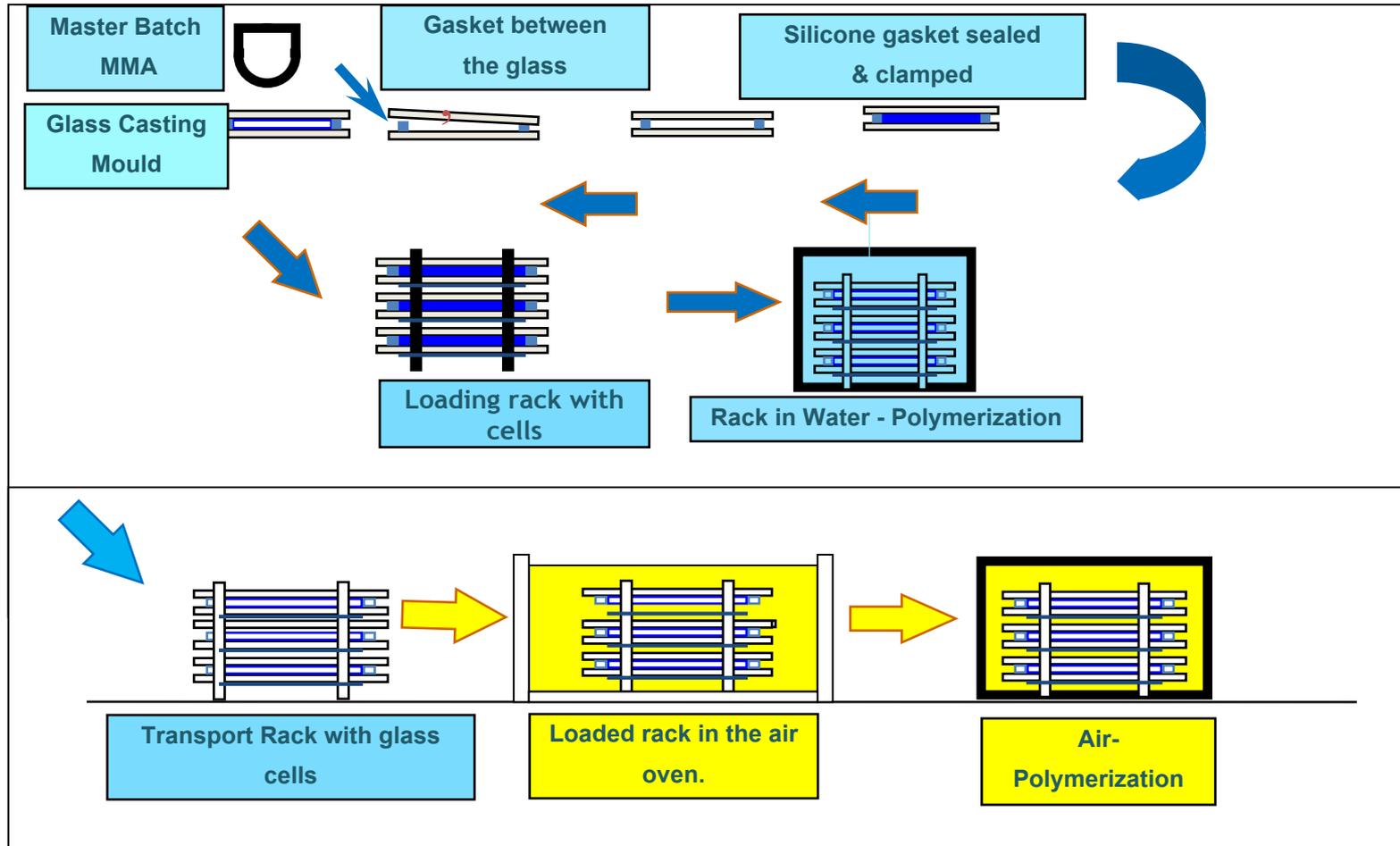
### Applications

- Aquarium /Pool glazing EG. cylinders, tunnels, flat & curved supported on 3 & 4 sides.
- Signage/display/POP/Shop-fitting/Lighting/Feature walls (illuminated)/Picture framing.
- Noise & wind barriers
- Electronic displays
- Architectural glazing – Roofing/cladding/machine guards/windows
- Transportation – Motor home windows/aircraft windows



# Acrylic sheet & block-

Leading technology enabling new designs....



# Acrylic Substrates – General Purpose

## Numerous market opportunities....

- Produced with 100% virgin MMA.
- 30 year UV clear warranty available against yellowing & UV degradation.
- 10 year UV color warranty available against discoloration.
- Large range of colours established.
- Available in both paper & PE Masking.
- Over 20 different standard sizes, with a thickness range of 2mm – 30.0mm

No RMMA or DMMA, only 100% Virgin MMA.  
10 -year color warranty.  
Thickness tolerances are governed by ISO standards.

**Excellent surface gloss finish after polishing.  
Excellent machinability.  
Can be easily fabricated into 3D shapes & cut designs.**

Polymerized (cured) acrylic sheet will contain low internal stress.

Available in a gloss & matte finish.

Excellent planarity – surface flatness after complete polymerization.

*Acrylic substrate*

*Sparkling as a long term performer....*



# Noise Barrier Acrylic-

## The long-term solution in noise reduction....

### Acrylic Noise Barrier:

Noise Barrier acrylic has good optics, high rigidity, excellent acoustic reflective values, strength & unsurpassed weathering properties.

### Advantages:

- Strength / mechanical properties
- Superior optical properties.
- Excellent noise reflection values.
- High Rigidity.
- Dimensionally stable ( virtually nil reversion)
- Excellent UV stability (manufacturers guarantees available)
- Light weight

**Surface Finish:** Gloss & Satin/Anti-Reflective

### Colour & Finishes:

- Clear, transparent/translucent & opaque colours , colour matching facilities.

### Applications:

- Roads, Streets & Highways
- Private companies (EG. Petrol Stations & Shopping Centres)
- Property development
- Schools & Universities
- Wind & Fragment Barriers



# Noise Barrier Acrylic-

## The long-term solution in noise reduction....

The combination of functional and visually attraction makes Noise Barrier Acrylic panels an excellent choice for acoustic barrier applications on highways, bridges and railways. The transparency of the panels, opens the landscape for the road/rail user, whilst offering sound control and protection to the public (both residents and road users).

### Features and benefits of Noise Barrier Acrylic panels

- Good weather and aging properties. (30-year UV guarantee on Clear)
- Excellent optical transparency
- Easy to clean and maintain
- Certified by Mfpa Leipzig to European standard (EN1793, EN 1794) & ZTV-Lsw 06.
- Easy to shape – thermoform into cosmetically pleasing shapes.
- Light weight – as opposed to glass alternatives.
- Good impact resistance.
- Strong surface hardness ( as opposed to other plastic polymers)
- Long product life - (30-year UV guarantee on Clear)



# Noise Barrier Acrylic-

## The long-term solution in noise reduction....



# Noise Barrier Acrylic-

## The long-term solution in noise reduction....



# Noise Barrier Acrylic-

## The long-term solution in noise reduction....

Noise Barrier Acrylic:

### Colour Availability:

Clear / transparent - tints / translucent & opaque colours.

### Current Surface Finish:

- Gloss
- Matte finishes.

### Size Range:

- 2000mm x 3000mm
- 2000mm x 4000mm
- 2000mm x 5000mm
- 2300mm x 4000mm

### Standard available thicknesses:

15mm, 18mm, 20mm and 25mm

### Masking:

- Paper
- PE film



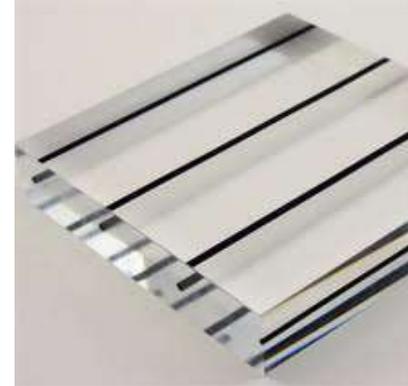
# Noise Barrier Acrylic (Filament Shard Retention)- The long-term solution in noise reduction....

## Acrylic Noise Barrier (Filament Shard Retention)-

The combination of functional and visually attraction makes Noise Barrier acrylic panels an excellent choice for acoustic barrier applications on highways, bridges and railways. The transparency of the panels, opens up the landscape for the road/rail user, whilst offering sound control and protection to the public (both residents and road users).

Features and benefits of:

- Excellent optical transparency
- Superior weather and aging properties. (30-year UV guarantee on Clear)
- Fragment retention system safety for travelling public
- Built-in lines to protect bird strikes – lines visible to protect the native birdlife.
- Easy to clean and maintain
- Meets the European standards (EN1793, EN 1794, ZTV-Lsw 06)
- Easy to shape/thermoform into cosmetically pleasing curves.
- Light weight – against glass
- Long product life – (30-year UV guarantee on Clear)
- Good impact resistance.
- Strong surface hardness ( as opposed to other plastic polymers)



# Noise Barrier Acrylic (Filament Shard Retention)- The long-term solution in noise reduction....

Noise Barrier Acrylic (Filament Shard Retention):

**Colour Availability:**

Clear / transparent - tints / translucent & opaque colours.

**Filament Colours:**

Black, Clear/Natural

**Current Surface Finish:**

- Gloss
- Matte finishes.

**Size Range:**

- 2000mm x 3000mm
- 2000mm x 4000mm
- 2000mm x 5000mm
- 2300mm x 4000mm

**Standard available thicknesses:**

15mm, 18mm, 20mm and 25mm

**Masking:**

- Paper
- PE film



# Noise Barrier Acrylic (Filament Shard Retention)- The long-term solution in noise reduction....

