

# **METAL CELLINGS**

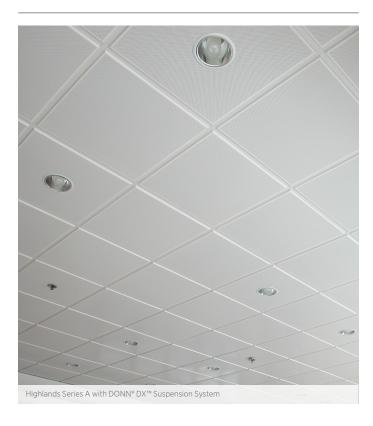
# Highlands Acoustical Panels

# **FEATURES AND BENEFITS**

- Simple lay-in design provides easy access to enclosed plenums
- Available in multiple edge details and panel heights to create customised visual effects
- Acoustical sound backer to enhance acoustical performance when panels are installed within an enclosed plenum
- Available in numerous colours, wood tones and perforation patterns
- Suits DONN® Exposed Grid Systems, DX™, DXT™ Centricitee™ and DXF™ Fineline™

# **APPLICATIONS**

- Transportation centres, including train stations and airports
- Entertainment venues
- · Computer and utility rooms
- Gaming lounges
- Offices
- Conference rooms
- Foyers
- Corridors
- Healthcare
- Education
- Retail



#### **COLOURS**

Due to printing limitations, shade may vary from actual product.



Over 44 colour and 26 wood look options to choose from, refer to USG BORAL Series 2000/5000 and Wood Look Aluminium Metal Ceilings Colour Guide.

USGBoral.com UB1011-1

# HIGHLANDS ACOUSTICAL PANELS

**METAL** CEILINGS

# 10 Year Warranty

**HIGHLANDS A PANELS** 

**HIGHLANDS B PANELS** 

**HIGHLANDS C PANELS** 

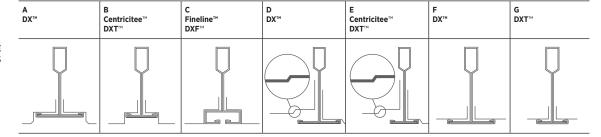
**HIGHLANDS D PANELS** 

Edge	Panel Size	Class	Item No.	NRC	CAC Min.	LR	Colour	Grid Options	VOC Emissions
Bevelled Lay-in	575 x 575mm 575 x 1175mm	Class A	DRAHIA575050D01A DRAHIA5751175D01A	0.75	11	0.80	White (050)	А	Low
Square Lay-in	585 x 585mm	Class A	DRAHIB585050D01A	0.75	11	0.80	White (050)	B, C	Low
	585 x 1185mm	Class A	DRAHIB5851185050D01A	0.75	11	0.80	White (050)	B, C	Low
	575 x 575mm	Class A	DRAHIC575050D01A	0.75	11	0.80	White (050)	D	Low
Recessed Lay-in	275 x 1175mm	Class A	DRAHIC2751175050D01A	0.75	11	0.80	White (050)	D	Low
	585 x 585mm	Class A	DRAHIC585050D01A	0.75	11	0.80	White (050)	E	Low
Square Lay-on	595 x 595mm	Class A	DRAHID5951195DS5A	0.70	<10	up to 0.80	White (050)	F, G	Low
	595 x 1195mm	Class A	DRAHID605050DS5A	0.70	<10	up to 0.80	White (050)	F, G	Low

Minimum lead times apply, check with USG Boral for availability

<sup>1</sup>10 Year Warranty on Indoor Panels only USG Boral Metal Ceiling Panels are covered by a 10 year warranty when used indoors and 5 years outdoors. Go to USGBoral.com/Highlands for Metal Ceiling Warranty CW2015B.

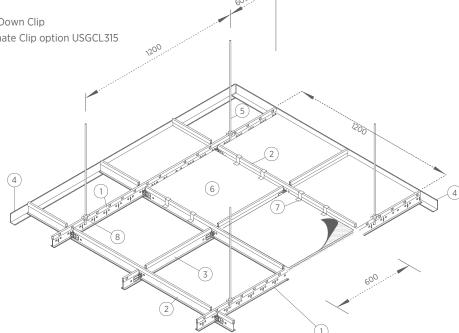
#### **GRID PROFILE OPTIONS**



#### SUSPENSION SYSTEM LAYOUT

## Components

- 3600 Main Tee options, DX, DXT, DXF
- 1200 Cross Tee options, DX, DXT, DXF
- 3 600 Cross Tee options, DX, DXT, DXF
   4 3600 Wall Angle options, MT, ML, MXT
   5 Hanger
- 6 Panel
- 7 Hold Down Clip
- Alternate Clip option USGCL315



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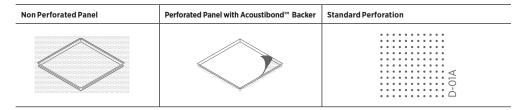
### **METAL** CEILINGS

#### **Perforation Options**

Pattern	D-01B Diamond Square	D-01A* Square	DM1A	D-S5A	D-R3	
Hole Diameter	1.5mm	1.5mm	0.8mm	7.9mm	6.0 x 25mm	
Pitch	4mm	4mm	5mm	11.43 x 11.43mm	11.0 x 30mm	
Open Area	22%	11%	2%	48%	39%	
NRC/SAA/Qw	0.75 / 0.74 / 0.751	0.65 / - / -	0.45 / 0.46 / 0.45(L) <sup>2</sup>	0.70/ - / -	0.70/ - / -	
CAC	36³	36³	39³	34³	343	

- 1. Tested to ASTM C423-09a for E400 mounting, test report CT15-111009
- 2. Tested to ASTM C423-09a for E400 mounting, test report CT15-111008
- 3. CAC achieved with 16mm RADAR™ CLIMAPLUS™ panel
- \* D01A is a standard perforation, for more perforation options refer to USG Boral Metal Ceilings Perforation Guide available on USGBoral.com/highlands

#### **Panels**



#### PHYSICAL DATA/ FOOTNOTES

#### Light Reflectance

Flat White (050): LR 0.80 (less with DS-5A Perforations)

#### Material

#### Galvanised steel

 $600 \times 600 / 0.5$ mm thick  $600 \times 1200 / 0.7$ mm thick

#### Aluminium

600 x 600 / 0.7mm thick 600 x 1200 / 1.2mm thick

# Finishing

Electrostatically applied polyester powder coating. Thickness of coating shall be min 60 microns. The powder coating has a 5 years outdoor and 10 years indoor warranty.

	Properties	Standards	Performance	
	Impact Resistance Test	ASTM D 2794 16mm ball	9 Nm	
	Erichsen Cupping Test	DIN EN ISO 1520	5 - 10mm	
	Bend Test	DIN EN ISO 1519	3 - 12mm	
	Pencil Hardness Test	ASTM D3363	HB - 2H	
	Buchholz	DIN EN ISO 2815	70 - 90	
	Adhesion	DIN EN ISO 2409	Gt0 - no loss of adhesion	
	Corrosion Protection	ASTM B117 - 73	Excellent	
	QUV Resistance	ASTM 6 - 53	Excellent	
	Reaction to Fire	AS/NZS 3837	Group 1 - unsprinkled	
Chlorine Exposure Test		Excellent		
Acoustic Test		NRC to ASTM C423	NRC 0.45 - 0.75 (400mm Plenum Space)	
		CAC to ASTM E1414	CAC 36	

#### Tolerances

All typical panel-to-panel joints shall be in accordance with approved detail with maximum tolerance of +/-1-2mm.

Field cuts shall be straight, sharp, cause no damage to adjacent finishes and shall be field painted to close match.

All joints shall align on centre. The maximum deviation from the nominal plane shall not exceed +/-3mm in every 5mm run. Every effort should be made by the Contractor to achieve a monolithic plane.

# Weight per square metre

# Galvanised Steel 0.5mm 1.93kg /m<sup>2</sup>

0.5mm 1.93kg /m<sup>2</sup>

#### Aluminium

 $0.7 mm 1.93 kg / m^2$ 

SALES ENQUIRIES **1800 226 215** (AU) **0800 USGBORAL** (NZ)



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This technical information is intended to provide general information and should not be a substitute for professional building advice. We recommend you use a qualified person to install USG Boral products. Illustrations in this guide are only representative of USG Boral plasterboard products and the appearance and effects that may be achieved by their use. To ensure the information you are using is current, USG Boral recommends you review the latest building information available on the USG Boral website USGBoral.com. Product availability should be checked with your local USG Boral Sales Office, as availability may vary. Safety First! Follow good safety/industrial hygiene practices during installation. Wear appropriate personal protective equipment. Read SDS and literature before specification and installation.