

# DATA SERIES ICON DATA HPL

## RECOMMENDED APPLICATIONS



DATA CENTRES



SERVER ROOMS

### SYSTEM NAME

Icon Data HPL Heavy Grade 4.5kN

### DESCRIPTION

Icon Data HPL is a finished system designed for Computer Room and Data Centre environments. It can be used for mapping and distributing cabling, data and other services in the sub-floor.

The Icon Data HPL system has a 1.6mm thick anti-static High-Pressure Laminate covering. The HPL protects against voltage shorts that can occur with electrical equipment and creates an electrostatic discharge to help prevent buildup of the static electricity which could damage equipment.

### COMPLIANT STANDARDS

Australian Standard AS4154/AS4155  
Australian Standard AS1170  
NATA Testing Certification  
ISO9239-1-2003  
EN12825-2001  
DIN4102-1-1998

Static-dissipative HPL Layer .....

Icon Panel .....



**CORE** Cementitious Compound

**FINISH** Anti-static 1.6mm 'high pressure laminate' surface finish.

### CONSTRUCTION

The panels consist of a hardened steel top and bottom sheet plate with corrosion resistant protection, inside and out, encapsulating a structural cementitious core.

### TOLERANCE

±0.25mm and a flatness tolerance of ±0.5mm measured on a diagonal across the top of the panel

### CONNECTION

The panel is gravity held on top of the stringer assembly.

**SIZE** 600mm x 600mm

**DEPTH** 34.6mm

## PERFORMANCE TO STANDARDS GUIDE PER AS4154 – 1993 AUSTRALIAN STANDARD – GENERAL ACCESS FLOORS

Load Level	Panel (kg)	System (kg/m <sup>2</sup> at 450mm FFH)
4.5kN Heavy Grade	14.2	48.1
<b>STATIC PERFORMANCE (kN)</b>		
Concentrated	Impact	Ultimate
4.5	0.4	13.5
<b>DYNAMIC PERFORMANCE (kN) - Passes</b>		
10 passes (wheel size 75x25mm)	10,000 passes (wheel size 150x50mm)	40,000 passes (wheel size 200x75mm)
4.4	3.3	2.25
Uniform (kN/m <sup>2</sup> )	23.3	
<b>Safety Factor:</b> Panels must provide a minimum safety factor of three (3) times the concentrated load specified above in accordance with Australian Standards AS4154-1993		



### PEDESTAL SIZE

100mm x 100mm base plate

### PEDESTAL CONSTRUCTION

Hot dipped galvanised steel pedestal base, head and rod. Finished with an ABS locating gasket.

### PEDESTAL LOCKING

The pedestals will be provided with an adjusting and locking nut to maintain the assembly at a selected height, which requires a deliberate action to change the height setting, and which prevents vibration displacement.

### PEDESTAL FINISH

Hot dipped galvanized finish.

### PEDESTAL CONNECTION

The panel is gravity held on top of the stringer assembly.

### PEDESTAL FINISHED FLOOR HEIGHT (FFH)

The finished floor height of the access floor is measured from the sub floor to the top surface of the installed access floor.

### STRINGER SIZE

31mm x 21mm x 1.2mm x 600mm

### STRINGER CONSTRUCTION

Rectangular steel welded tube with 1.6mm sponge rubber foam.

### STRINGER FINISH

Hot dipped galvanized finish.

### STRINGER CONNECTION

The stringer is screw fixed to the pedestal head.

## PERFORMANCE OF SURFACE FINISH

PROPERTIES	REQUIREMENT IN NEMA LD3-2005 HGS			RESULT
Light Resistance	Rating Min: SL			Pass
Cleanability	Cleanability Rating: ≤20			Pass Cleanability Rating: 10
Boiling water resistance	No effect			Pass No effect
High temperature resistance	Slight effect			Pass No effect
Ball impact resistance	≥1250mm			Pass ≥2000mm
Dart impact resistance	≥500mm			Pass ≥1000mm
Dimensional change	X-direction: ≤0.8%			Pass X-direction: 0.58%
	Y-direction: ≤0.5%			Pass Y-direction: 0.35%
Room temperature dimensional stability	X-direction: ≤0.8%			Pass X-direction: 0.38%
	Y-direction: ≤0.5%			Pass Y-direction: 0.35%
Wear resistance	≥400r			Pass ≥6000r
Electronic Resistance	OHMS	Surface	10E8-10E10	Method: 5x10E9 Pass
Dry Floor Friction Test per AS/NZS 4586:2004				Class F
Wet Pendulum Test per AS/NZS 4586:2004				Class X
Oil-Wet Ramp Test per AS/NZS 4586:2004				R9

## CARE & MAINTENANCE

Maintenance should be carried out regularly to retain the appearance and durability of the floor. The floorcovering should be maintained with regular sweeping and dry mopping. Damp mopping with using a neutral cleanser, more intense cleaning should be carried out using a neutral cleanser. Harsh chemicals can affect the adhesive layer between the HPL and Icon Panel.

Maintain temperatures during and after installation to between 15 and 32 degrees Celsius, with a relative humidity between 40-60%. Avoid extreme changes in temperature and humidity.

It is recommended that plywood protection is used for all rolling loads over the access floor finish.

## MAINTENANCE GUIDE

### CLEANING OF PANEL SURFACE COVERING

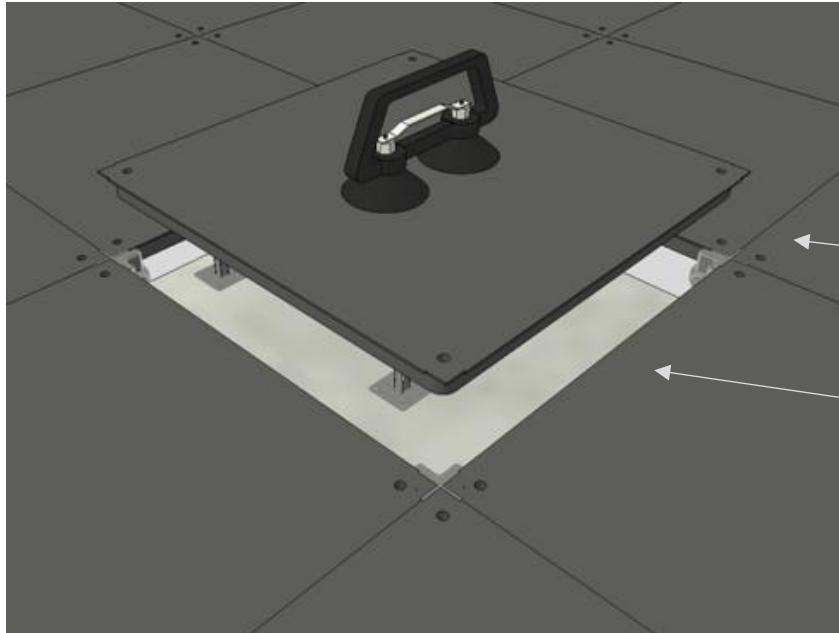
Any dust or building debris falling on top of the panels should not be swept across the top of the floor; instead, it should be vacuumed away. Sweeping access floors can force dust between panel edges or onto pedestal heads and stringers which can cause noise issues.

### APPLICATION TO FINISHES

Prior to applying any finishes on the raised access floor system, the entire surface must be thoroughly cleaned and vacuumed. This process is essential to prevent dust and debris becoming trapped between panels and in the adhesive layer of subsequent finishes which can lead to potential noise issues.

### SITE CONDITIONS

Activities that generate significant dust onsite, during or after the access floor installation process, should be effectively managed by the head contractor to avoid a build-up on pedestal heads or stringers that can cause potential, unwanted noise issues. Vacuuming of fine dust accumulated on the access floor panels is recommended over sweeping.



Vacuum to ensure the surface is free from debris, clearing all dust prior to the application of finishes.

Avoid sweeping across the top of the floor to prevent dust being forced between panels.

## MAINTENANCE CONTACT DETAILS

If you require further assistance regarding maintenance instructions of an ASP Access Flooring system, please contact:

**CONTACT:** ASP Sales  
**PHONE:** 02 9620 9915  
**EMAIL:** sales@aspfloors.com.au  
**WEBSITE:** [www.aspfloors.com](http://www.aspfloors.com)

## ICON Data HPL Colour Hub



VENTUS (8192)



SOLIS (2010-5)



STELLA (2103)



TERRA (2158)

\*Colours are subject to availability and minimum order quantities may apply.