

DATA SERIES ICON DATA HPL

RECOMMENDED APPLICATIONS



DATA CENTRES



SERVER ROOMS

Static-dissipative HPL Layer

Icon Panel



SYSTEM NAME

Icon Data HPL Super Heavy Industrial Grade 13.0kN

DESCRIPTION

Icon Data HPL is a finished system designed for Computer and Data Centre environments. It can be used for mapping and distributing cabling, data and other electrical 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

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 ² at 450mm FFH)
13.0kN Super Heavy Industrial Grade	21.23	67.65
STATIC PERFORMANCE (kN)		
Concentrated	Impact	Ultimate
13.0	0.4	39.0
DYNAMIC PERFORMANCE (kN) - Passes		
10 passes (wheel size 75x25mm)	10,000 passes (wheel size 150x50mm)	40,000 passes (wheel size 200x75mm)
11.0	8.9	2.25

Safety Factor: 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
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.