



DSC ENG CORP

DATA SHEET for AL HIVE 20

Ref. Code : DSC-7542-H20-D29

Panel Composition

Aluminum Sheet, Primer Coated	
Glue Thermosetting Epoxy Film Adhesive	
Aluminum Honeycomb Core	
Glue Thermosetting Epoxy Film Adhesive	
Aluminum Sheet, Primer Coated	

Specification

Product name	Aluminum Skinned Honeycomb Cored Panel in Sheet
Overall Thickness	20mm
Outer Skin	0.5mm(0.02") thick Aluminum sheet, A3003 H16(or H14), Clear Epoxy Primer Coated in 5+/-2 micron thickness
Core Material	Aluminum Honeycomb Core, 3/8" cell sized hexagonal Core with A3104, H18, 70micron(+/-5%) thick Aluminum Foil, chromated for anti-corrosion.
Inner Skin	0.5mm(0.02") thick Aluminum sheet, A3003 H16(or H14), Clear Epoxy Primer Coated in 5+/-2 micron thickness
Glue	Thermosetting Epoxy Film type, 350g/m2 each side

Panel Weight & Tolerance

Size	1219mm W x 2438mm L x 25mm T	
Weight	4.5 kgs / m2	
Tolerance	Thickness	+0, -0.2mm
	Diagonal	Under 3mm
	Sizes	+0,-2mm in size(W, L)

Honeycomb Core's properties

Foil Thickness	70 micron	
Alloy, Temper	A3104 H18(H19)	
Cell Size	3/8"	
Density	3.37(lb/ft3)	54(kg/m ³)
Compression Strength Stabilized	363 psi	2.5 MPa
Compression Module Stabilized	79 Kpsi	540 MPa
Plate Shear Strength/L-Direction	203 psi	1.4 MPa
Plate Shear Module/L-Direction	38 Kpsi	260 MPa
Plate Shear Strength/W-Direction	123 psi	0.85 MPa
Plate Shear Module/W-Direction	19 Kpsi	130 MPa