

Geneerco Floor #4, Type 1C Sandwich Structures

1. Background

General Veneer Manufacturing Co. has been supplying lightweight materials and products to the aircraft and aerospace industry for over 50 years. With the advent of the wide body commercial airplane, new materials were required to meet their specific needs. We were among the first to use these new materials in production and have continued to develop new configurations.

2. Product Introduction

Balsa wood, one of the oldest core materials, is again being used in sandwich structures. Because of its high impact resistance and high compressive properties, End Grain Balsa core panels have exhibited good resistance to heel damage and provide long service life. End Grain Balsa floor panels are still widely used by most airlines and airframe manufacturers. A large stock of balsa wood is available in all densities from General Veneer Manufacturing Co.

3. Performance

Research and development testing on fatigue properties indicate a long service life can be expected. Geneerco flooring is suitable for many applications and installations that require quality products at a competitive in-place cost.

Geneerco Floor #4, Type 1C meets or exceeds the requirements of BMS 4-10 Type I, Grade C. Please contact General Veneer Manufacturing Co. for more information regarding other available panel types.

4. Type Identification

The following tables depict the quality aspects of Geneerco Floor #4, Type 1C.

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5. Typical Physical and Mechanical Properties.

Physical Description ^①	Typical Values	Unit
Generco Floor #4	Type 1C	
Weight	.95	p.s.f.
Overall Thickness	.410	in.
Skin Thickness (Face/Back)	.020/.012	in.
Facing Alloy	2024T3 Clad	n/a
Nominal Core Density	9.0	p.c.f.
Length • Nominal 96", 120", 144"	Up to 192	in.
Width • Nominal 48", 60", 72"	Up to 72	in.

① Panels are available in other thicknesses, widths, lengths and core densities per customer request.

Panel Strength • Test Method	Typical Values	Unit
Generco Floor #4	Type 1C	
Stabilized Compression • MIL-STD-401	1000	p.s.i.
Climbing Drum Peel ^① • Standard Condition	20	in-lb/3 in. width
Climbing Drum Peel ^① • 30 Day Water Soak	14	in-lb/3 in. width
Flammability • 60 Sec. Vertical Ignition	15	sec. ext.
Core Shear • MIL-STD-401 (12 in. Span, 1/4 Point Loading)	200	p.s.i.

① Climbing Drum Peel tests conducted with .012 faces.