

Compressible Scotch Block Specifications Sheet

Design Specifications:

Two-part Compressible LD Foam & Steamed Beech Scotch Block.

Fire resistant LD45 foam decreases derailment risk and provides additional support and visibility to Scotch Block.

Steamed Beech nose cone has medium stiffness, high crushing strength and medium resistance to shock loads.

Nose cone to be sealed in R0070 2K Paint.

All mating faces to be bonded using suitable adhesive.



Item pictured is example of Small Wheel Compressible Scotch

Continued Below

LD45 Foam Specifications



Apparent Density

Skin/Skin

BS EN ISO 7214:2012

kg/m³

(nominal)

45

Cell Size (Cell Diameter) Internal mm 0.4

Compression Stress-Strain

25% compression

50% compression

BS EN ISO 7214:2012

25 mm cell-cell

kPa

90

163

Tensile Strength

Tensile Elongation

BS EN ISO 7214:2012

kPa

%

537

155

Flammability

Automotive

FMVSS.302 – Burn rate

<100mm/min.

Pass at 6mm

Compression Set

25% comp., 22hr, 23°C

½ hr recovery

24 hr recovery

BS EN ISO 7214:2012

25 mm cell-cell

% set

8

3

Tear Strength BS EN ISO 8067:2008

Method B

N/m 2414
Shore Hardness
OO Scale
BS EN ISO 868:2003
63
Recommended maximum operating
temperature*
Internal °C 100
Water absorption ISO 2896:2001 Ed3. % <1
Thermal conductivity
Mean temperature 10°C
ISO 8301:1991 W/mK 0.041

Steamed Beech Specifications

Name: Fagus sylvatica

Country of Origin: Germany and France. European Beech originates from deciduous Fagus sylvatica trees; distributed in areas stretching from southern England down to Sicily and even northern areas of Turkey. These trees are typically found in hillside regions and favour a more humid, well watered environment with well drained soil. They also have a resilience to cold winter temperatures.

Uses: Shop fitting, furniture and joinery, high-end joinery, desks, breadboards, workbenches, musical instruments, toys, cabinets, flooring, turnery, veneers, picture frames and other decorative projects.

Durability: Non Durable (Less than 5 years)

Density: Medium density - 670 - 720 (Kg/m³)

Colour(s): Creamy white, occasionally with a light brown, tan or pink tint.

The Timber: The fine, subtle grain, consistent texture and light complexion of Beech is what makes it stand out when compared against other timbers. There's also no visual or textural difference between the heartwood and sapwood, however Beech will turn to a more reddish brown after cutting exposure. The natural lustre and lack of obvious grain pattern makes it a great choice for furniture making and similar projects that require a high level of consistency between the various material pieces.

Strength: European Beech is brilliant for all indoor woodworking and boasts a strength that rivals that of Oak. Although it's considered non-durable, Beech's strength value will increase after sufficient drying has occurred. It's also resistant to impacts, knocks, dents and heartwood decay but can be susceptible to insect attacks unless treated.

The steam bending properties are exceptionally good, even tolerant of knots and irregular grain. It has medium stiffness, high crushing strength and medium resistance to shock loads.

Working Qualities: Rated good - Beech turns, glues, screws and nails well and can be sanded to a beautiful smooth surface. It can also be stained and polished to a good standard. Pre-drilling is recommended when nailing and screwing. Capable of taking stains and polishes, beech will also glue readily and turn well.

ASTM D2000 Traction Soleplate Specifications

Polymer Type	NR/SBR
Density	1.6
Durometer, Shore A	70±5
Tensile Strength (Mpa), minimum	4
Elongation, %, minimum	200
Min. Temperature, °C	-25
Max. Temperature, °C	70
Mechanical Puncture Resistance, N	70
Slip Resistance Test	Avg. Force higher than 50N

Handle Grip Specifications

Technical Data Tensile Strength: ≥ 10.4 MPa

Breakdown Elongation: $> 350^{\circ}\text{C}$ Longitudinal Shrink Ratio: $\leq \pm 5\%$

Flame Retardant: VW-1

Heat Shock (200°C): No drop/No flow

Dielectric Strength: 20kV/mm

Water Absorption: $< 0.5\%$ Specific Gravity: 1.25g/cm^3