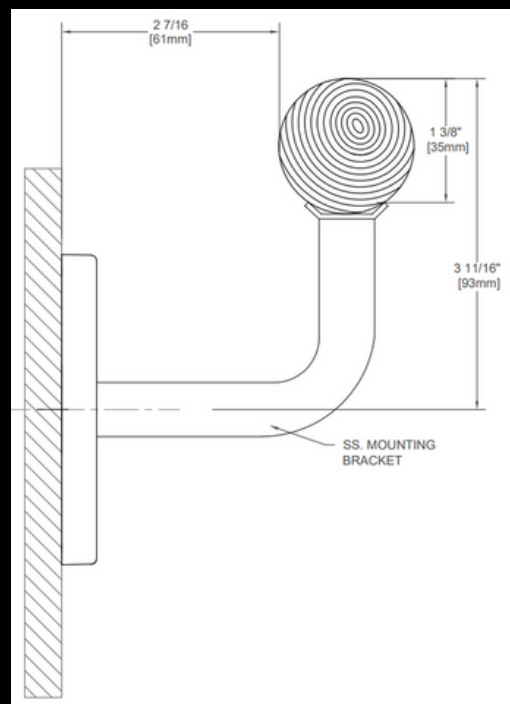


nature's steel

NSH40 - 40mm Diameter Nature's Steel Handrail



About the NSH40

NSH40 - 40mm diameter Nature's Steel handrail is the mainstay of Nature's Steel handrails. It's versatility sees it used in numerous buildings including hospitals, aged cares, hotel and education. Made using a unique strand-woven bamboo method, the Nature's Steel material is extremely durable, yet also very environmentally sustainable. It is available in 3 different finishes, with brushed stainless steel mounting bracket and handrail returns. It looks sleek and beautiful, but don't be fooled. It's slimline appearance masks its virtually indestructible character.



Durable

- Janka hardness rating 3-4 x traditional Australian hardwood timbers (Strand-woven material)
- 25 year durability warranty



Sustainable

- Made from bamboo; with a growing speed of up to 1m per day it is the fastest growing plant on earth
- Ready to harvest within 4-5 years compared to 85+ years for native Australian hardwoods
- Harvesting bamboo doesn't harm the mother plant, like logging does
- Not subject to native logging bans across Australia (as of 2023 approximately 70% of Australian hardwood was supplied by logging)
- Sustainably sourced - FSC Certified
- Low VOC's - E1 Classification (<1ppm/0.124mg/m³) - Actual result is 0.080 mg/m³



CO2 Neutral

- CO2 neutral during the product lifespan
- No use of fungicide in production

Our Mission

We're on a mission to save 2030m³ of native Australian forest timber from logging by 2030.

#2030by2030

Nature's Steel was born out of the logging bans across numerous Australian states, seeking to limit the destruction of our native forest and threatened species, from logging. With an estimated 70% of Australian hardwoods being sourced from native forests, bamboo, which is the fastest growing plant on Earth, is a highly sustainable alternative.

Available Colours



Ghost Gum

Strand Woven or Laminated



Ebony Night

Strand Woven



Dark Hazel

Strand Woven



Native Oak

Strand Woven or Laminated

Tech Specs

	STRAND WOVEN	LAMINATED
Janka Hardness	15.8 kN	5.9 kN
Density	1170 kg/m ³	700 kg/m ³
Moisture Absorption	0%	0%
Antimicrobial Resistance	99.9%	99.9%
CO ₂ Neutral	✓	✓
Dimensional Stability (width)	+0.9%	+0.9%
Modulus of Elasticity	13204 N/mm ²	18876 N/mm ²
Bending Strength	53.6 N/mm ²	39.8 N/mm ²
Warranty	25 years	25 years
Substances of Very High Concern (SVCH) >0.1%	N/A	N/A

Installation Summary

- Ensure wall is final painted before installation and that continuous noggins are installed within the wall. If not continuous noggin is installed in the wall you will need to install a dado rail to the external of the wall to mount the handrail
- Measure the length of the wall and determine the start and end points of the handrail
- Deduct the handrail returns from the overall handrail length to give the length of the rail.
- Cut the Nature's Steel rail using a fine tooth saw blade. Ensure the rail is sufficiently supported and cut slowly.
- Fix the stainless steel mounting brackets to the wall at approximately 1000mm spacings. Allow for the first and last brackets to be 200mm (to the centre) from the ends of the handrail and evenly space intermediate brackets and fix into the wall.
- Position the rail onto the brackets and predrill the rail through the two holes in each mounting bracket saddle using a 4mm drill bit. Screw the rail to the mounting bracket using countersunk stainless screws.
- Using the drilling jig, drill a centre hole into the end of the handrail for the handrail returns
- Install the handrail returns using the splice and tools provided

Cleaning & Maintenance

In order to keep the NSH40 handrail in good condition, ensure that it is cleaned regularly with a non-abrasive cleaning agent and damp cloth. Ensure all fixings are checked for tightness on a regular basis and tighten as required.