



WAEZHOLZ
BRASMETAL



Cold rolled steel strip for wood saws

With more than 190 years of experience, the Waelzholz Group develops and manufactures customized steel materials for a wide variety of applications. Known for its high-performance materials in the saw industry, the company's Baukus® brand is a reflection of this expertise.

The martensitic hardened and tempered steel strip combines precision with high functional hardness and is therefore especially suited for saw applications like timber band saws. Its extremely low straightness deviations guarantee excellent performance during wood cutting.

More benefits for your saw manufacturing and application:

- High wear resistance for a longer service life
- Precise dimensional tolerance allowing optimized balance and stability
- Chemical composition allows excellent weldability
- Ideal formability to create a concave saw profile
- Minimal dimensional deviations supporting the creation of a perfect concave profile

Wood saw steel specification

Material Properties

Standard chemical analyses

Grades	C [%]	Si [%]	Mn [%]	P [%]	S [%]	Cr [%]	Mo [%]	Ni [%]
C75S	0,70–0,80	0,15–0,35	0,60–0,90	0,025 max.	0,025 max.	0,40 max.	0,10 max.	0,40 max.
75Ni8	0,72–0,78	0,15–0,35	0,30–0,50	0,025 max.	0,025 max.	0,15 max.	0,10 max.	1,80–2,10

Other chemical analyses are available upon request.

Edge shapes



Standard Hardness

43 ± 2 HRC

Other hardness levels are available upon request.

Surface

Sanded or polished surface

Dimensions and Tolerances

Dimensions

Thickness		Width	
[mm]	[inch]	[mm]	[inch]
0,5–3,5	0,02–0,14	7,0–400	0,28–15,754

Special tolerances are available upon request.

Thickness tolerances

Nominal thickness		Tolerance	
[mm]	[inch]	[mm]	[inch]
0,50 < 1,00	0,019 < 0,039	± 0,020	± 0,0007
1,00 < 1,50	0,039 < 0,060	± 0,035	± 0,0013
1,50 < 2,00	0,060 < 0,079	± 0,045	± 0,0017
2,00 < 2,50	0,079 < 0,098	± 0,050	± 0,0019

Special tolerances are available upon request.

Straightness

Thickness		Tolerance	
[mm]	[inch]	[mm]	[inch]
< 76	< 3,0	< 0,40 in 1 m	< 0,015 in 3,28 ft
≥ 76	≥ 3,0	< 1,80 in 3 m	< 0,071 in 10,0 ft

Special tolerances are available upon request.

Transversal flatness

< 0.1% of strip width

Delivery form

The material is supplied as a coil with an inner diameter of 400 mm (15.75"), 500 mm (19.69") or 800 mm (31.50") and maximum external diameter of 2,000 mm (78.74"), or as cut-to-length sheets according to the customer's specification.