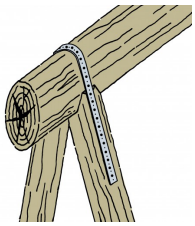
Technical data sheet

BAN-S

X-shaped perforated stainless steel tape BAN

These tapes are used for anchoring the timber in the low load range and as a structural connection.



Features

Material

<u>Steel quality:</u>
• Stainless Steel 1.4401 bzw. 1.4404 (V4A) in accordance with EN10088 standards.
• Class III corrosion resistance

Benefits

• BAN tapes are available in a thickness of 1.0 mm and 1.5 mm in various lengths.
• Also available in stainless steel execution.

Applications

Header member

Wood, wood materials

Application area

• Typical applications include light ceilings and sliding doors.

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Dimensions and drill holes

References	Tun / DB nr.	NOB nr.	Dimensions [mm]			Holes	
			A	B [m]	t	Size	Size
BAN102010S	3779121	21221338	20	10	1	Ø5	Ø6,5

Product capacities

References	Characteristic capacities (kN) - Timber C24				
	$R_{1,k}$				
	Maximum value	CNA4,0x35	CNA4,0x40	CNA4,0x50	CNA4,0x60
BAN102010S	4,0/kmod	1.68 x n	1.83 x n	2,22 x n	2,36 x n

*capacity $R_{1,k}$ is calculated from the nails capacities but mustn't exceed the maximum value.
n = effective number of nails in the row according to Eurocode 5 – 8.3.1.1 (8)

Product Dimensions & Performance Values (UK)

References	Dimensions			Holes	Maximum Characteristic Values Tolerated $R_{1,st}$ [kN]
	A [mm]	B [m]	t [mm]		
BAN102010S	20	10	1	Ø5	4

The maximum characteristic value tolerated under tensile load corresponds to the plate's maximum tensile strength. The fasteners must be checked separately using EN 1995-1-1. The characteristic resistance of an BAN fixing band assembly under tensile load $R_{1.k}$ is: $R_{l.k= min}$ ($R_{1.st}$; R_{upper}; R_{lower})
Where:
$R_{1.st}$: the maximum characteristic value tolerated under tensile load as specified in the table above. R_{upper}: the resistance of the group of fasteners in the upper wall Rlower: the resistance of the group of fasteners in the lower wall $R_{upper} = n_{ef.upper} \times R_{lat.k}$ $R_{lower} = n_{ef.lower} \times R_{lat.k}$
Where:
$n_{ef.upper}$: the effective number of fasteners in the upper wall nef.lower: the effective number of fasteners in the lower wall Rlat.k: the strength of the chosen fastener
Example: BAN094025 joining two CLT walls with an intermediate floor. The aim is to determine the fixing band's load-bearing capacity when subjected to tensile forces. The nailing pattern shown below is used. The following table provides the characteristic strength values.

Installation

Fixing

- **A combination of perforated strips of wood takes place nails or screws CNA3,1x40 CSA4,0x30.**

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