NEO

NEOPRENE SUPPORTING PLATE

SUPPORTS
Ideal for creating structural supports that reduce stress concentrations on the beam. Model with CE marking to guarantee the suitability for use.

DIMENSIONS
The stripe width has been optimised for the most common joist cross sections. Available also in sheets to be conveniently cut depending on the worksite needs.

CE MARKING
Model according to EN 1337-3 ideal for structural use.

SERVICE CLASS	SC1 SC2
MATERIAL	
natural rubber and styrene rubber	
THICKNESS [mm]	10 or 20 mm

FIELDS OF USE

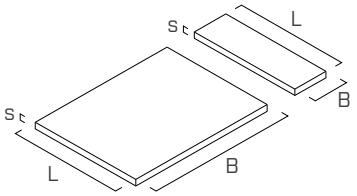
Structural support of timber beams on concrete or steel.

For use on:
- solid timber softwood and hardwood
- glulam, LVL

CODES AND DIMENSIONS

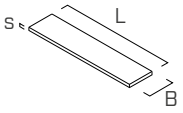
NEO 10 E NEO 20

CODE	description	s	B	L	*s*	*B*	*L*	weight		pcs
		[mm]	[mm]	[mm]	*[in]*	*[in]*	*[in]*	[kg]	*[lb]*	
NEO101280	stripe	10	120	800	*3/8*	*4 3/4*	*31 1/2*	1,46	*3.22*	1
NEO101680	stripe	10	160	800	*3/8*	*6 1/4*	*31 1/2*	1,95	*4.30*	1
NEO202080	stripe	20	200	800	*13/16*	*8*	*31 1/2*	4,86	*10.71*	1
NEO202480	stripe	20	240	800	*13/16*	*9 1/2*	*31 1/2*	5,84	*12.87*	1
NEO10PAL	sheet	10	1200	800	*3/8*	*47 1/4*	*31 1/2*	14,6	*32.19*	1
NEO20PAL	sheet	20	1200	800	*13/16*	*47 1/4*	*31 1/2*	29,2	*64.37*	1



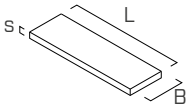
NEO 10 CE

CODE	description	s	B	L	*s*	*B*	*L*	weight		pcs
		[mm]	[mm]	[mm]	*[in]*	*[in]*	*[in]*	[kg]	*[lb]*	
NEO101680CE	stripe	10	160	800	*3/8*	*6 1/4*	*31 1/2*	1,60	*3.53*	1
NEO102080CE	stripe	10	200	800	*3/8*	*8*	*31 1/2*	2,00	*4.41*	1



NEO 20 CE

CODE	description	s	B	L	*s*	*B*	*L*	weight		pcs
		[mm]	[mm]	[mm]	*[in]*	*[in]*	*[in]*	[kg]	*[lb]*	
NEO202080CE	stripe	20	200	800	*13/16*	*8*	*31 1/2*	4,00	*8.82*	1
NEO202480CE	stripe	20	240	800	*13/16*	*9 1/2*	*31 1/2*	4,80	*10.58*	1



TECHNICAL DATA

NEO

Properties		values
Specific weight	g/cm^3	1,25

NEO CE

Properties		regulations		values
Specific weight			g/cm^3	1,25
Shear modulus G	-	EN 1337-3 p. 4.3.1.1	MPa	0,9
Tensile strength	-	ISO 37 type 2	MPa	≥ 16[(1)] ≥ 14[(2)]
Minimum elongation at failure	-	ISO 37 type 2	%	425[(1)] 375[(2)]
Minimum strength to laceration	24 h; 70 °C	ISO 34-1 method A	kN/m	≥ 8
Residual deformation after compression	spacer 9,38 - 25 %	ISO 815 / 24 h 70 °C	%	≤ 30
Resistance to ozone	elongation: 30 % - 96 h; 40 °C ± 2 °C; 25 pphm	ISO 1431-1	visual	no visible cracks
Accelerated ageing	(minimum variation of the non-aged value)	ISO 188	-	- 5 + 10
Hardness	7 d, 70 °C	ISO 48	IRHD	60 ± 5
Tensile strength	7 d, 70 °C	ISO 37 type 2	%	± 15
Elongation at failure	7 d, 70 °C	ISO 37 type 2	%	± 25

(1) Printed specimen.
(2) Specimen from a support.

COMPRESSION STRENGTH

- The characteristic compressive strength R_k for simple bearing supports is calculated according to EN 1337-3.

$$R_k = min\left(1{,}4 \cdot G \cdot \frac{A^2}{l_p; 1{,}8t}; 7 \cdot A \cdot G\right)$$

with plate A=area, l_p= perimeter and t=thickness.

- Design values can be obtained from characteristic values as follows:

$$R_d = \frac{R_k}{\gamma_M}$$

The coefficient γ_M should be taken according to the current regulations used for the calculation.