

Wall / floating tread kits

Wall / the tread

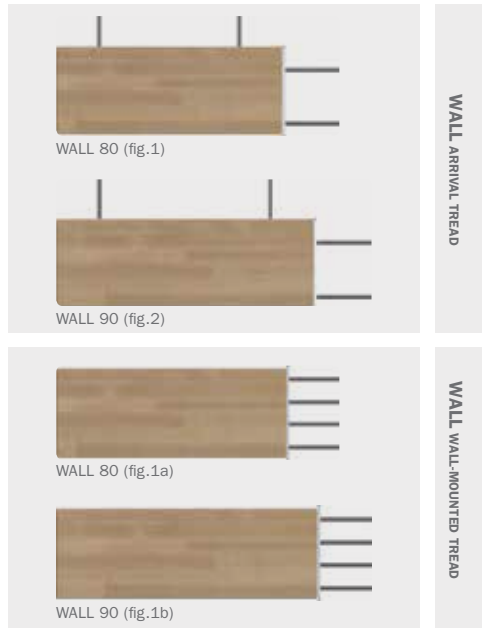
TREAD WIDTH: 80 - 90 cm
 TREAD DEPTH: 30 cm
 TREAD THICKNESS: 8,5 cm

The **Wall** floating treads are made of 100% solid beech and come in the colours: dark Havana, bleached, dove-grey, light and dark.

Two types of tread are available: an arrival tread (Figs. 1 - 2) for installation on the floor (with grooves for fastening it to the floor and the side wall), and a wall-mounted tread for fitting in the side wall (Figs. 1a - 2a).



WARNING: It is recommended to have a technician check that the wall is load-bearing and suitable to support the load of the treads (the table below shows some materials that are compatible with the WALL treads).



BEARING WALL MATERIALS COMPATIBLE WITH WALL TREADS

	CONCRETE	FULL BRICK	PERFORATED BRICK	PLASTERBOARD	METAL	WOOD
WALL-MOUNTED TREAD	OK	OK	/	/	OK	/
ARRIVAL TREAD	OK	OK	/	/	OK	/

the sequence of the **Wall** treads allows for straight configurations, for use with an opening or a mezzanine, whilst catering for different heights to suit your requirements.



WALL WITH MEZZANINE

WALL WITHOUT FLOOR OPENING

WALL WITH FLOOR OPENING

There are no restrictions on where to position the treads on the wall; to make it easier to go up and down the stairs, the value of double the rise (**A**) + the going (**P**) should be between 62 and 64cm ($2A + P = 62 - 64$ cm).

Legend



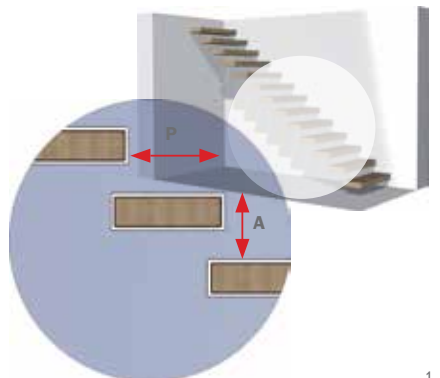
rise (**A**)

vertical distance between one tread and the next



going (**P**)

horizontal distance between the edge of a tread and the nosing of the next



Wall /tread structure

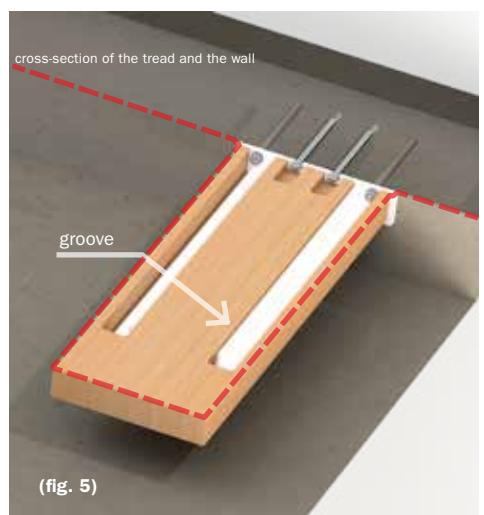
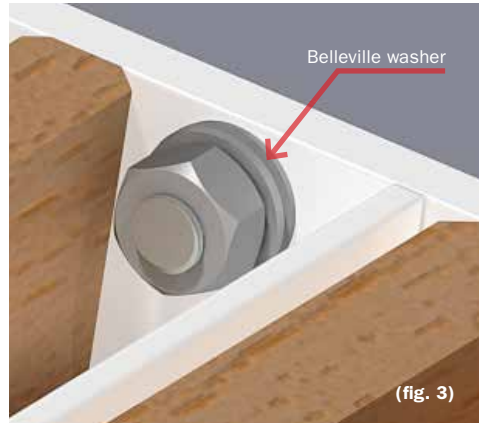
Based on the type of tread, grooves have been made (Fig. 5) to hold the side steel structure to be fastened to the vertical wall or to the floor.

The internal structure of the tread and the wall fixing plate are made of matt-white painted steel.

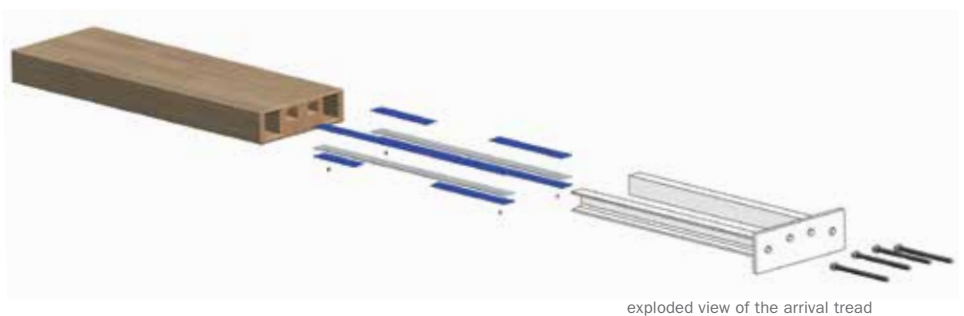
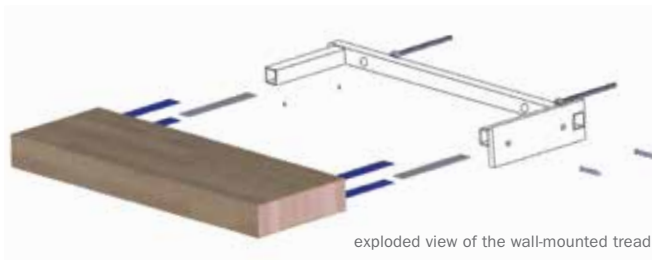
Special so-called Belleville washers (Fig. 3) allow checking proper fitting of the threaded pins and tightening of the nuts while fitting the structure to the wall (see the installation instructions).



WARNING: the pins should go into the load-bearing structural wall (Fig. 4) by at least 18cm and chemical resin (not provided) for fastening heavy structures should be used.



Seals (indicated in blue) are provided in the kit to be inserted between the treads and the steel structure in order to prevent vibration and noise from being transmitted from the tread to the wall when going up and down the stairs.



Wall /technical information

The strength of the treads has experimentally been tested with reference to the standards:

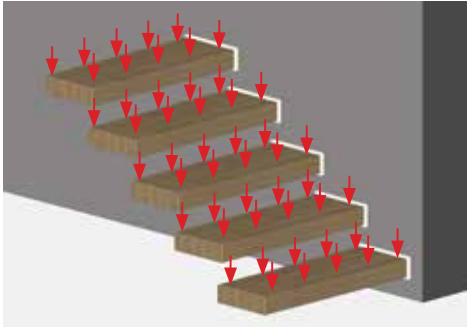
Eurocode EN 1991-1-1:2002 for Class A civil buildings

Appendix A of CEN/TS 15680:2007

Distributed weight force



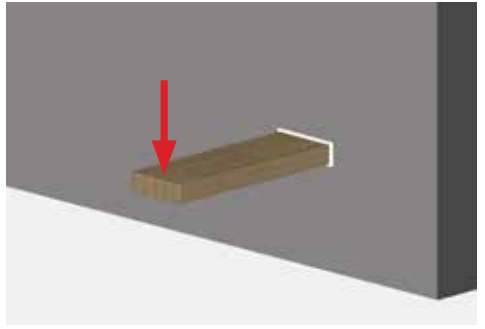
$q_{Rk} = 4 \text{ [kN/m}^2\text{]} \approx 400 \text{ [kg/m}^2\text{]}$ - distributed vertical force applied evenly and simultaneously on all the treads



Concentrated weight force



$Q_{Rk} = 3,3 \text{ [kN]} \approx 330 \text{ [kg]}$ - concentrated vertical force applied to the end of a tread



Wall/ Main reference measurements

Legend

- S** Floor thickness
- H** Floor-to-floor height
- L1** Floor opening length
- L2** Floor opening width

Wall /tread kit installation

When installing the **Wall** treads, you need to consider that:

If there is a mezzanine, the floor thickness (**S**) must be at least equal to the rise (**A**) + 5cm.

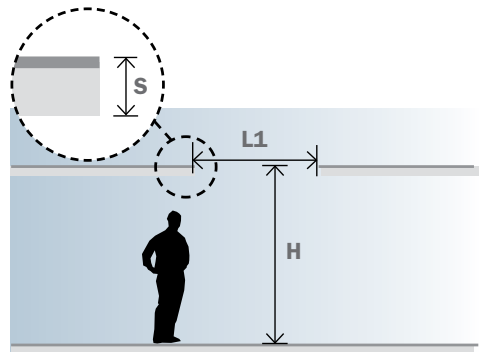
If there is a floor opening, you need to check the following conditions:

- The floor thickness (**S**) must be between the rise (**A**) + 5cm and 42cm
- The floor opening width (**L2**) must be greater than 80cm
- The floor opening length (**L1**) must be greater than 260cm and the side wall must be load-bearing.

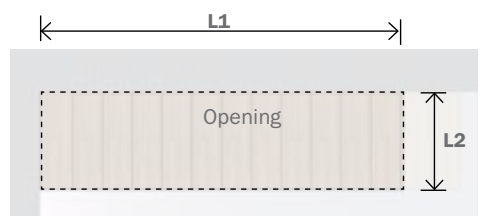
If **L2** is between 80 and 90cm, use 80cm wide treads (Table 1)

If **L2** is greater than 90cm, you can use 90cm wide treads (Table 2)

Looking at the table, based on the dimensions of the structural wall, the floor opening and the finish chosen, you can find the number of tread kits you need and order the corresponding nine-digit code.



reference measurements for the floor opening



reference measurements for the floor opening

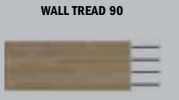

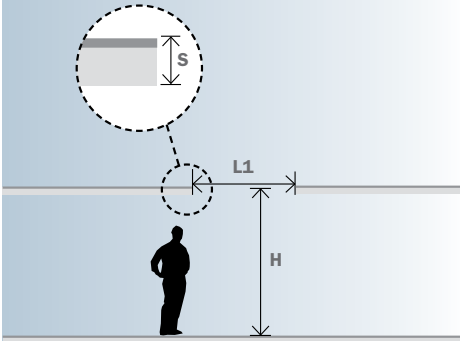
Example

If you want to install WALL treads with a light finish and with a floor opening and you have these dimensions:

H=273 cm, **L2**=92 cm, **L1**=340 cm, **S**=30 cm
 (**L2** > 90 cm, so look at Table 2)

you need to order:
N° 13 kits CODE K00075000
 +
N° 1 kit CODE K00105000

H Floor-to- floor height [cm]		Floor opening dimensions		WALL TREAD 80		WALL ARRIVAL TREAD 80	
		L1 Floor opening length [cm]	S Floor thickness [cm]				
From	to						
165	188	L1 greater than or equal to (\geq) 330	S smaller than ($<$) 35	N° 8 kits		N° 1 kit	
		L1 greater than ($>$) 305, smaller than ($<$) 330	S smaller than ($<$) 37	N° 7 kits		N° 1 kit	
		L1 greater than ($>$) 260, smaller than (\leq) 305	S smaller than ($<$) 41	N° 6 kits		N° 1 kit	
189	205	L1 greater than or equal to (\geq) 330	S smaller than ($<$) 35	N° 9 kits		N° 1 kit	
		L1 greater than ($>$) 305, smaller than ($<$) 330	S smaller than ($<$) 37	N° 8 kits		N° 1 kit	
		L1 greater than ($>$) 260, smaller than (\leq) 305	S smaller than ($<$) 41	N° 7 kits		N° 1 kit	
206	225	L1 greater than or equal to (\geq) 330	S smaller than ($<$) 35	N° 10 kits		N° 1 kit	
		L1 greater than ($>$) 305, smaller than ($<$) 330	S smaller than ($<$) 37	N° 9 kits		N° 1 kit	
		L1 greater than ($>$) 260, smaller than (\leq) 305	S smaller than ($<$) 41	N° 8 kits		N° 1 kit	
226	244	L1 greater than or equal to (\geq) 330	S smaller than ($<$) 35	N° 11 kits		N° 1 kit	
		L1 greater than ($>$) 305, smaller than ($<$) 330	S smaller than ($<$) 37	N° 10 kits		N° 1 kit	
		L1 greater than ($>$) 260, smaller than (\leq) 305	S smaller than ($<$) 41	N° 9 kits		N° 1 kit	
245	260	L1 greater than or equal to (\geq) 330	S smaller than ($<$) 35	N° 12 kits		N° 1 kit	
		L1 greater than ($>$) 305, smaller than ($<$) 330	S smaller than ($<$) 37	N° 11 kits		N° 1 kit	
		L1 greater than ($>$) 260, smaller than (\leq) 305	S smaller than ($<$) 41	N° 10 kits		N° 1 kit	
261	280	L1 greater than or equal to (\geq) 330	S smaller than ($<$) 35	N° 13 kits		N° 1 kit	
		L1 greater than ($>$) 305, smaller than ($<$) 330	S smaller than ($<$) 37	N° 12 kits		N° 1 kit	
		L1 greater than ($>$) 260, smaller than (\leq) 305	S smaller than ($<$) 40	N° 11 kits		N° 1 kit	
281	299	L1 greater than or equal to (\geq) a 330	S smaller than ($<$) 35	N° 14 kits		N° 1 kit	
		L1 greater than ($>$) 305, smaller than ($<$) 330	S smaller than ($<$) 37	N° 13 kits		N° 1 kit	
		L1 greater than ($>$) 260, smaller than (\leq) 305	S smaller than ($<$) 41	N° 12 kits		N° 1 kit	
300	317	L1 greater than ($>$) 305, smaller than ($<$) 330	S smaller than ($<$) 37	N° 14 kits		N° 1 kit	
		L1 greater than ($>$) 260, smaller than (\leq) 305	S smaller than ($<$) 40	N° 13 kits		N° 1 kit	
318	336	L1 greater than ($>$) 260, smaller than (\leq) 305	S smaller than ($<$) 40	N° 14 kits		N° 1 kit	
337	368	L1 greater than (\geq) 260, smaller than 290	S smaller than ($<$) 42	N° 14 kits		N° 1 kit	

H Floor-to- floor height [cm]		Floor opening dimensions		WALL TREAD 90		WALL ARRIVAL TREAD 90	
		L1 Floor opening length [cm]	S Floor thickness [cm]				
From	to			LIGHT CODE K00075000		LIGHT CODE K00105000	
		L1 greater than or equal to (\geq) 330	S smaller than ($<$) 35	DARK CODE K00076000		DARK CODE K00106000	
165	188	L1 greater than ($>$) 305, smaller than ($<$) 330	S smaller than ($<$) 37	DARK CODE K00077000		DOVE-GREY CODE K00107000	
		L1 greater than ($>$) 260, smaller than (\leq) 305	S smaller than ($<$) 41	DARK HAVANA CODE K00078000		DARK HAVANA CODE K00108000	
		L1 greater than or equal to (\geq) 330	S smaller than ($<$) 35	BLEACHED CODE K0079000		BLEACHED CODE K00109000	
189	205	L1 greater than ($>$) 305, smaller than ($<$) 330	S smaller than ($<$) 37	N° 8 kits		N° 1 kit	
		L1 greater than ($>$) 260, smaller than (\leq) 305	S smaller than ($<$) 41	N° 7 kits		N° 1 kit	
		L1 greater than or equal to (\geq) 330	S smaller than ($<$) 35	N° 6 kits		N° 1 kit	
206	225	L1 greater than ($>$) 305, smaller than ($<$) 330	S smaller than ($<$) 37	N° 9 kits		N° 1 kit	
		L1 greater than ($>$) 260, smaller than (\leq) 305	S smaller than ($<$) 41	N° 8 kits		N° 1 kit	
		L1 greater than or equal to (\geq) 330	S smaller than ($<$) 35	N° 10 kits		N° 1 kit	
226	244	L1 greater than ($>$) 305, smaller than ($<$) 330	S smaller than ($<$) 37	N° 9 kits		N° 1 kit	
		L1 greater than ($>$) 260, smaller than (\leq) 305	S smaller than ($<$) 41	N° 11 kits		N° 1 kit	
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245	260	L1 greater than ($>$) 305, smaller than ($<$) 330	S smaller than ($<$) 37	N° 9 kits		N° 1 kit	
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261	280	L1 greater than ($>$) 305, smaller than ($<$) 330	S smaller than ($<$) 37	N° 10 kits		N° 1 kit	
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281	299	L1 greater than ($>$) 305, smaller than ($<$) 330	S smaller than ($<$) 37	N° 12 kits		N° 1 kit	
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300	317	L1 greater than ($>$) 305, smaller than ($<$) 330	S smaller than ($<$) 37	N° 12 kits		N° 1 kit	
		L1 greater than ($>$) 260, smaller than (\leq) 305	S smaller than ($<$) 40	N° 14 kits		N° 1 kit	
318	336	L1 greater than ($>$) 260, smaller than (\leq) 305	S smaller than ($<$) 40	N° 13 kits		N° 1 kit	
337	368	L1 greater than (\geq) 260, smaller than 290	S smaller than ($<$) 42	N° 14 kits		N° 1 kit	