

## Accessories

**Fixing**

The standard delivery of Laserline Column radiators does not include any fixings. These are to be selected depending on use from the range of accessories and are to be ordered separately. However, connection sets with angle brackets and connection sets with drilled brackets are available as standard fixtures. These sets each include the appropriate number of brackets, radiator mounts, the necessary screws and anchor bolt (suitability to be checked by the customer!) and an instruction sheet\*. When installing, it is recommended that the upper radiator brackets are mounted immediately below the upper boss.

In addition, the accessories range includes drilled tension brackets, floor brackets and wall brackets in various designs and sizes for fixing in conjunction with radiator mounts. A special adjustable wall bracket makes it possible to set a very wide range of wall clearances.

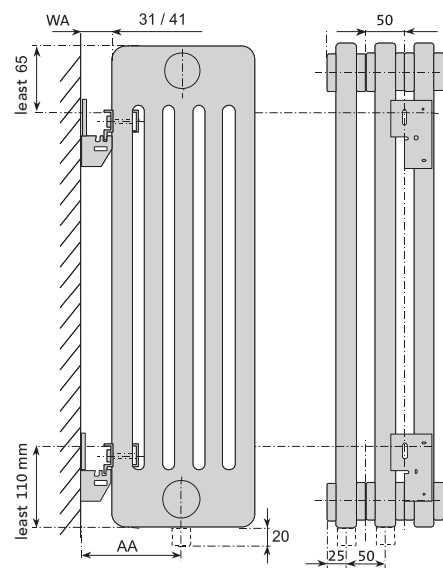
The Laserline tube radiator is also available in a special design with welded-on clip brackets.

It is essential to note in each case the number of fixing points that are required (see next pages). A fixing point is understood to be any load-bearing fixture (spacing brackets and clamping holders are not fixing points). A fixing point above (recommended position directly underneath the boss) and a fixing point underneath (Fig. 1) in each case form a vertical fixture axis.

The load-bearing capacity and stability of the walls must be checked as to whether they can support the intended load in each case. Clip brackets are not supplied with the standard design of the Laserline tube radiator.

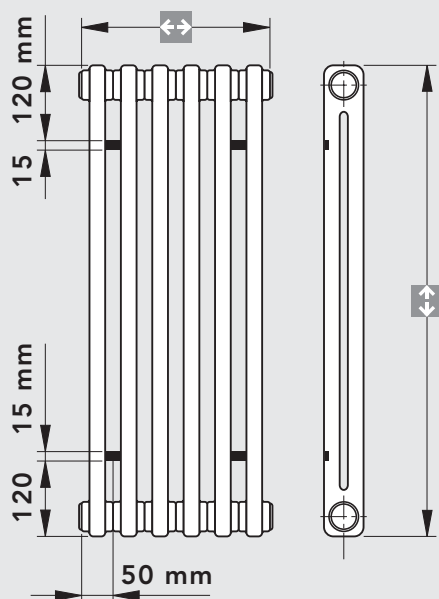
Both floor brackets and circular floor brackets are available for free-standing installation of the Laserline Column radiators. The floor brackets also offer the option to fit a height-adjustable window Heated benches support. Both brackets can be used for radiator lengths of up to 1000 mm. A SINGLE floor bracket/circular floor bracket is recommended per fixture axis. In the case of extraordinary loads, it is recommended that the wall bracket for use in public areas should be used (e.g. in schools).

*\*Attention: the radiator with the overall height of 155 mm can only be mounted with circular floor brackets or with wall brackets WK 155.*

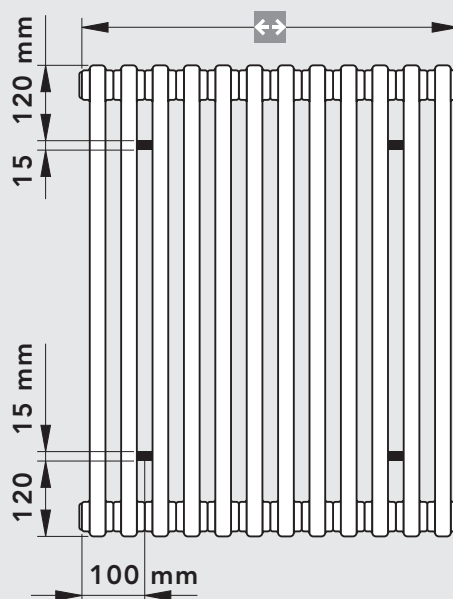


**Fig. 1** Fixing and connection dimensions for connection set with angled bracket. The 4-part set includes 4 x the items shown below right, while the 6-part set includes 6 x these items.

Model	Overall depth	Angled bracket set	
		wall clearance WA	connection clearance AA
2-column	63	31 / 41	63,5 / 73,5
3-column	101	31 / 41	82,5 / 92,5
4-column	139	31 / 41	101,5 / 111,5
5-column	177	31 / 41	120,5 / 130,5
6-column	215	31 / 41	139,5 / 149,5



**Arrangement of mounting clip brackets from outside for 4-6 elements**



**Arrangement of mounting clip brackets from outside for 7-20 elements**

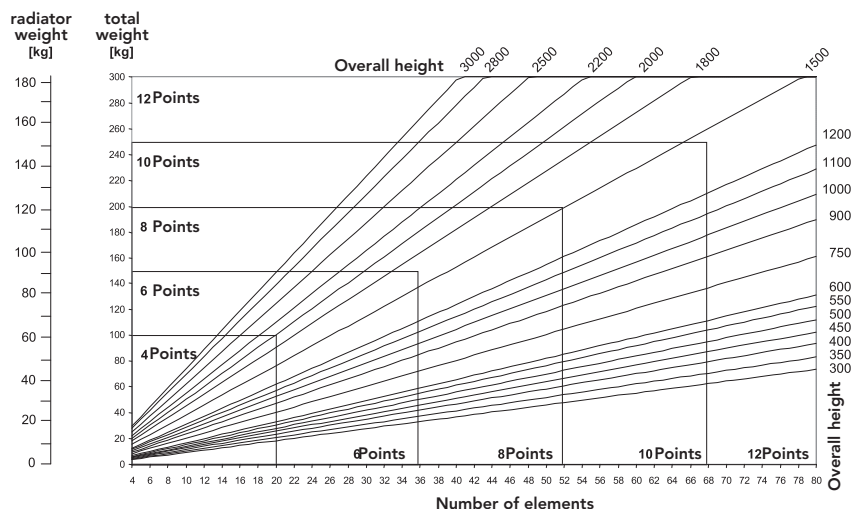
**Overall length:**  
 n x 50 mm

## Accessories

### 2-column:

Maximum block lengths and required fixing points

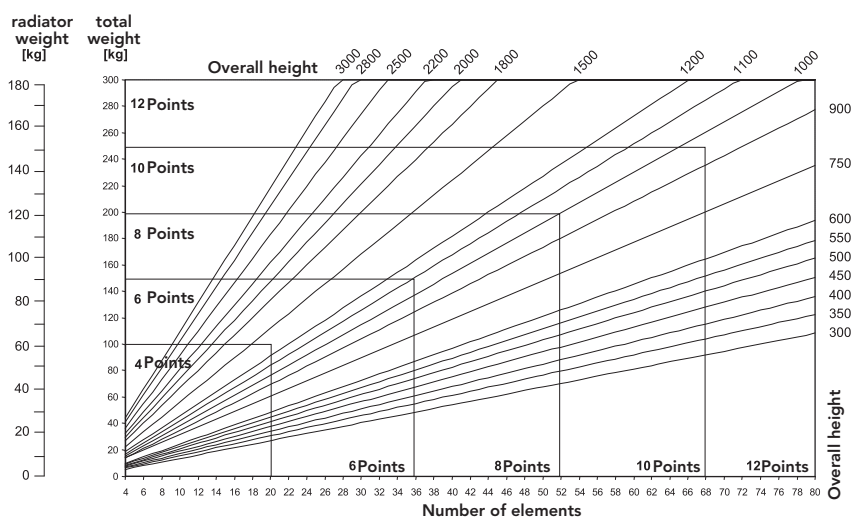
Overall height [mm]	Max. elements per block
up to 1000	40
up to 3000	19



### 3-column:

Maximum block lengths and required fixing points

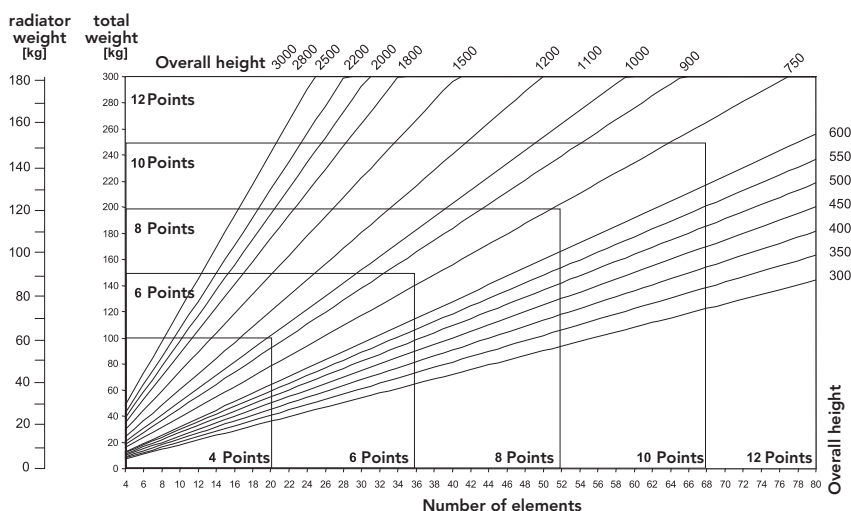
Overall height [mm]	Max. elements per block
up to 1000	40
up to 2200	19
up to 3000	14



### 4-column:

Maximum block lengths and required fixing points

Overall height [mm]	Max. elements per block
up to 750	40
up to 1000	30
up to 1500	19
up to 2200	14
up to 3000	10



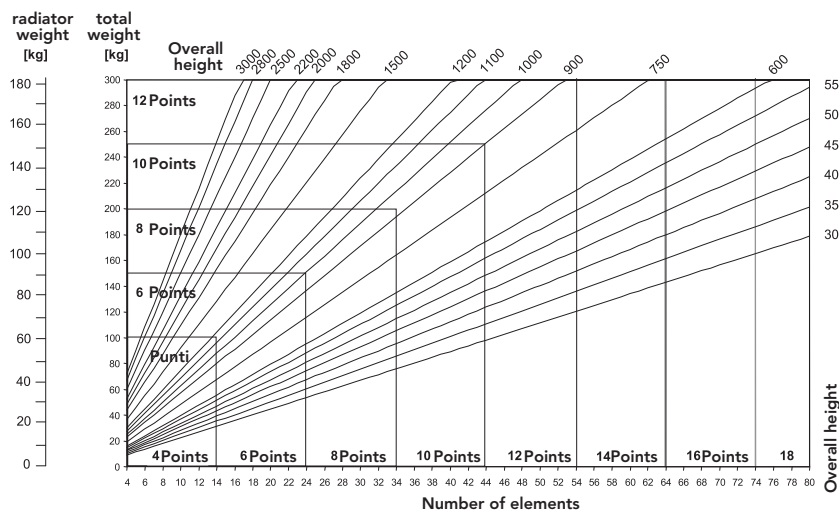
**Fig. 2** Determining the necessary fixing points for the 2-, 3- and 4-Column radiators. A fixing point above (recommended position directly under the boss) and a fixing point at the bottom in each case (Fig. 1) form a vertical fixture axis.

## Accessories

## 5-column:

Maximum block lengths and required fixing points

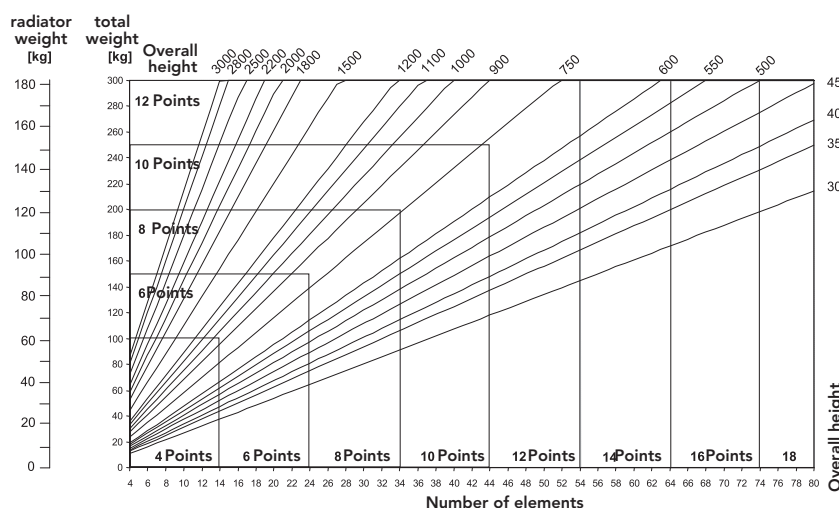
Overall height [mm]	Max. elements per block
up to 600	40
up to 665	35
up to 750	30
up to 1000	25
up to 1200	19
up to 1500	15
up to 2500	10
up to 3000	8



## 6-column:

Maximum block lengths and required fixing points

Overall height [mm]	Max. elements per block
up to 500	40
up to 600	35
up to 665	30
up to 750	25
up to 1000	20
up to 1200	15
up to 1500	13
up to 2000	10
up to 2500	8
up to 3000	7



**Abb. 3** Determining the necessary fixing points for the 5- and 6-Column radiators. A fixing point above (recommended position directly underneath the boss) and a fixing point at the bottom in each case (Fig. 1) form a vertical fixture axis.

**Note:**

A SINGLE floor bracket/circular floor bracket is recommended per fixture axis.

The radiator with the overall height of 155 mm can only be mounted with circular floor brackets or with wall brackets WK 155.