

Lego Unit: $1 \mathrm{lu}=1.6 \mathrm{~mm}$

Diagonal positions are given in Horizontal units ( 1 stud spacing $=5 \mathrm{lu}$ ) versus Vertical units ( 1 beam height $=6 \mathrm{lu}$ ); i.e. $2: 3$ means 2 stud spacings vs. 3 beam heights. Diesis signs (\#) in horizontal units are half-intervals ( 2.5 lu ), bars in vertical units are thin plates (2 lu). Half-intervals can be obtained by using special two-hole $1 \times 2$ or single-hole $1 \times 1$ beams available in some Technic sets. Alternative way is to use Technic beams or narrow plates that can be put on top of other beams with half-hole offset - they will bind with holes in studs.

* Pairs marked this way are closer than ideal by the distance given in the left column

Example: 4\#:1=* means "axles are separated by $4 \frac{1}{2}$ holes horizontally and 1 brick and two plates vertically; the resulting distance is smaller than ideal".

Errors more than 0.3 lu may damage your teeth...

