What you require

For height adjustment
22mm Spanner/Shifter
For Anchoring Bolt Downs
Masonry drill bit, 2x 22mm Spanner/Shifter, Chemical Anchors
For Casting into Concrete
2 x 22mm Spanner/Shifter, Concrete, Appropriate PPE
For Landing to Landings
21mm & 22mm Spanner/Shifter, Bolts for landing connection *by others, min. M12 G8.8*

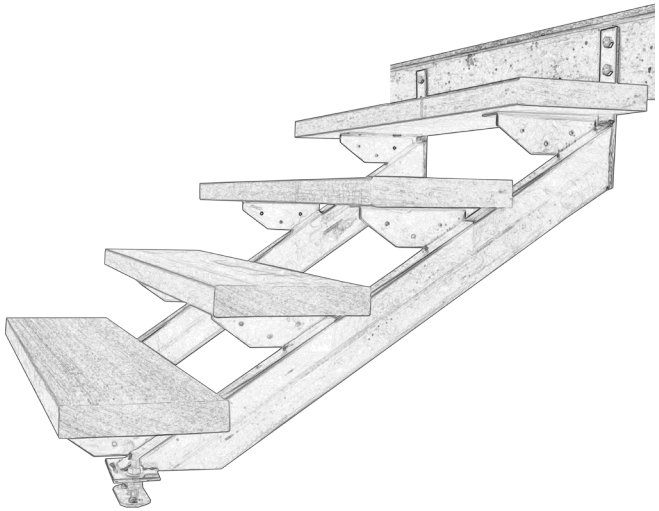
Different Baseplate Options

LevelMaster stair stringers come with three different but interchangable baseplates: bolt down, cast in, and landing to landing. Depending on what base plate you have will change how to install your stair stringers.

Bolt Down

Landing To Landing

Cast Into Concrete



Setting up the top mount

The highest tread bracket needs to be set at 225mm below the finished floor level. This is allowing for the height of the rise and thickness of the tread *175mm for the rise and 50mm for the tread. The tread thickness may vary depending on material, any change in rise height or tread thickness will need to be accounted for.*

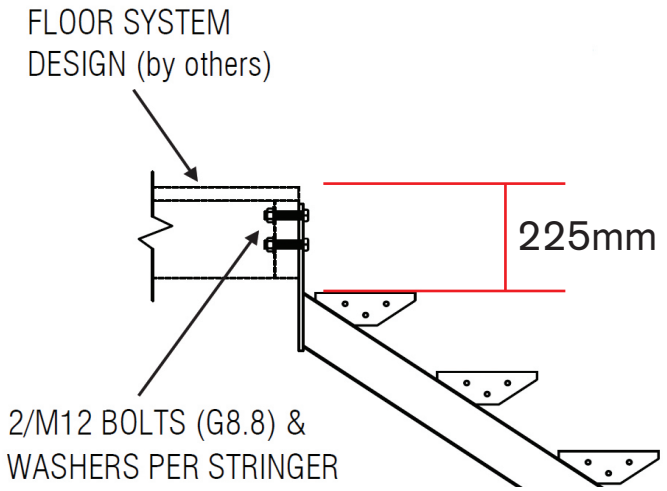


Fig. 1

Setting up the ground connection

The small stringers *1T-10T* have a different bolting location to the large stringers *11T-17T*. For the small stringers this is the total going minus 170mm and 120mm for the large stringers *ie. The bolting location for a 15T stringer is 3630mm from the fixing face (3750mm-120mm).* LevelMaster recommends placing the stringers in place and marking the bolt location for accuracy.

The landing to landing connector will extend the stringers total going by 10mm.

See Fig 1 on Page 5

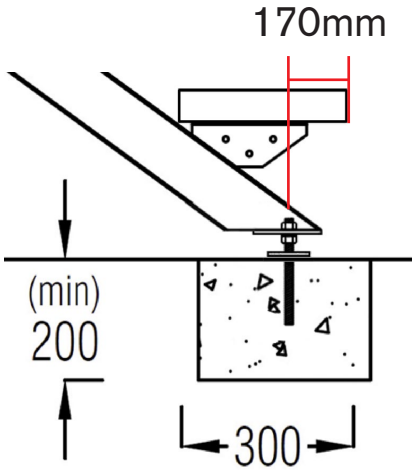


Fig. 2
Small Stringer

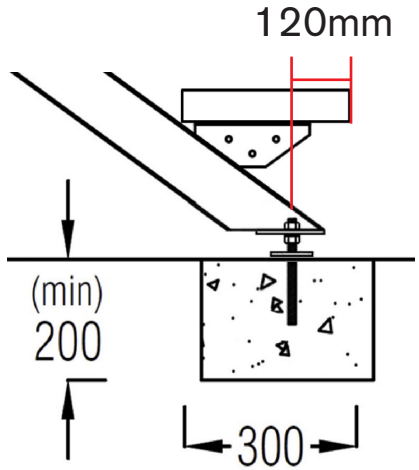
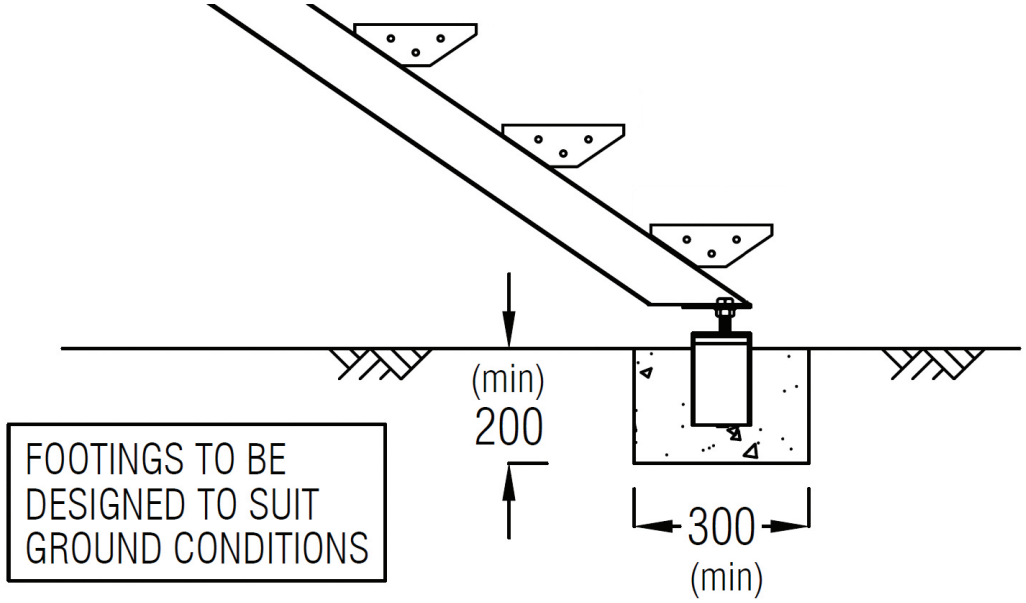


Fig. 3
Large Stringer

Cast Into Concrete

If you have cast into concrete stringers, place your stringers in position and mark out the footing position to prepare the hole for the cast in base. Once the hole is dug then attach the top of the stringer into your landing/ floor using 2 x M12 *G8.8* bolts for each stringer, making sure the highest tread bracket is 225mm below the floor level. *see Fig. 1 on page 2.*
Clamping the stringer in place and temporaily prop the bottom of the stringer at the correct level will help with the bolting process.

Next adjust you bottom brackets so only the threads will be exposed after pouring the concrete.
The bored pier needs to be a minimum of 200x300x300mm using N25/20/100 concrete or as per engineers specification. Make sure there is fall away from the stringer feet so water does not pool. Allow your concrete to set as per the concrete manufacturers specifications.



Finally you can use 2 x 22mm spanners/shifters to tighten the adjustment bolts on the cast in base.

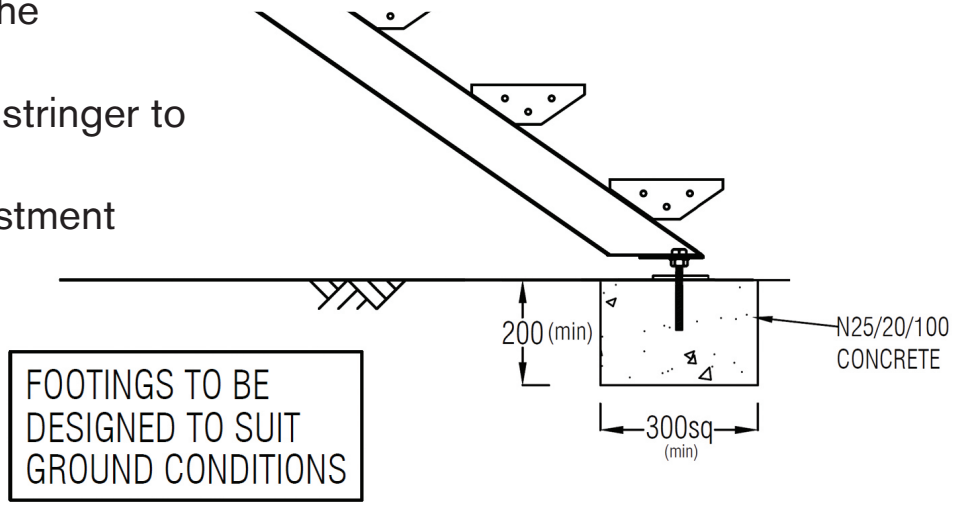
Your stairs are now ready for treads.

Distance Between LevelMaster Stringers Must Not Exceed 1000mm

Bolt Down To Concrete

To install the bolt down stringers you will need to firstly attach the base plates onto the bottom bracket *just hand tight at the moment* with the baseplate roughly 40mm above the ground *see Fig. 1 on this page*. Once the bases are attached then put the stringers in place.
Adjust the baseplates untill the highest step tread bracket is 225mm below the top of the floor level *see Fig. 1 on Page 2*
Now mark where your bolts for your baseplate will be, remove the stringers and drill the holes.
Remove your baseplates from the stringer and bolt them down to the concrete with 1 x M12 concrete anchor *G 8.8*.
Re-attach your stringer to the baseplates and attach the top of the stringer to the landing with 2 x M12 bolts *G 8.8*.
Finally you can use 2 x 22mm spanners/shifters to tighten the adjustment bolts on the bolt down base.

Fig. 1



Your stairs are now ready for treads.

Clamping the stringer in place will help with the bolting process.

Distance Between LevelMaster Stringers Must Not Exceed 1000mm

Landing to Landing

First attach and tighten the landing bracket onto the stringers with the supplied 2 x M12 bolts *G 8.8* each side. *LevelMaster landing to landing brackets are only to be used with1-10T stringers, 11T-17T stringers need a fully welded landing connection.*

Next put your stringer in place and set the stringers with 225mm from the highest step tread to the top of the floor level *see Page 2 for more information*. Bolt the top of the stringers into place with 2 x M12 bolts *G 8.8* for each stringer. *Clamping the stringer in place will help with the bolting process.*

Next bolt the landing bracket to the face of the landing with 2 x M12 bolts *G 8.8* for each bracket or as per engineers details.

If you are building the landing after the stringer is installed then it is recommend to prop the bottom of the stringer in place as you construct the landing to keep the stringer in the correct position. The L-L bracket will also add 10mm to the total going of the stringer *ie. a standard 3T stringer is 750mm + 10mm = 760mm required.*

Your stairs are now ready for treads.

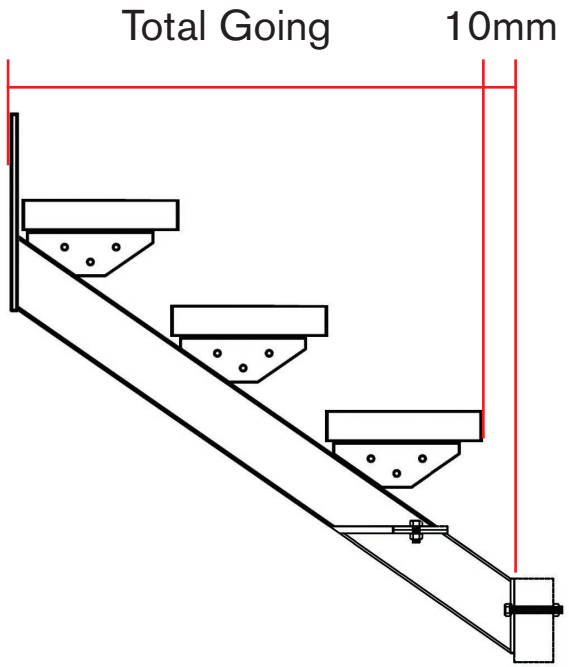
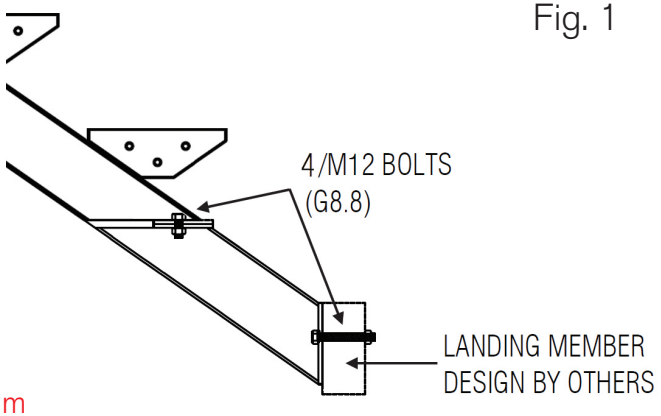


Fig. 1



Distance Between LevelMaster Stringers Must Not Exceed 1000mm

LevelMaster
Stronger. Easier. Faster. ADJUSTABLE HOUSE STUMPS

Statement Of Warranty

All LevelMaster products are manufactured to the highest standards as outlined on our technical drawings. All LevelMaster components are hot dipped galvanised with a minimum thickness of 600g/m² *equivalent to 84µm thickness*. Design life is 50 years with all LevelMaster products being installed above ground *unless encased in concrete* and not covered in water. Products also need to be accessible for maintenance and periodic corrosion checks *LevelMaster recommends checks every 12 months*.

Our product is warranted against defects in materials and workmanship for 10 years from the date of original purchase.* This warranty does not cover damage caused by improper installation, misuse, accident, or unauthorized modifications.

All components must be installed in accordance with our installation guidelines by a qualified contractor** and are warranted under corrosion category C1-C4 as defined in ASA4312. Guidelines can be found on our website *www.levelmaster.com.au*

Warranty conditions apply to first-time installations only and do not apply to used or reinstalled components. These are in addition to your consumer rights and guarantees under Australian law.

MATERIALS QUALITY NOTES*	
ALL LEVEL MASTER'S STEEL MATERIALS SHOWN IN THIS DRAWING TO BE G350 (U.N.O.).	
ALL LEVEL MASTER'S STEEL MATERIALS SHOWN IN THIS DRAWING TO BE HOT GALVANIZED WITH THE THICKNESS OF (MIN.) 600g/m². (EQUIVALENT TO 84µm THICKNESS)	
DESIGN LIFE	50 YEARS
CONDITIONS	C1 – C4 CORROSION CATEGORY AS DEFINED IN AS4312
ALL HOUSE STUMP SERIES PRODUCTS TO BE USED ABOVE GROUND AND NOT COVERED IN WATER.	
ALL HOUSE STUMP SERIES PRODUCTS ARE TO BE ACCESSIBLE FOR PERIODIC CORROSION CHECKS AND MAINTENANCE.	

*CERTIFICATES PROVIDED BY THE MANUFACTURER.

**Please note LevelMaster also sells 3rd party products such as steel hollow section, stair treads and fixings. All these products are manufactured to the appropriate Australian standards. The OEM of these products are responsible for the manufacturing quality and warranty of these products. LevelMaster will work with our customers if any warranty claims are raised for these products.*

***Please check with your local state building authority as variations may exist on project authority levels.*