

LINKFLOTE – TECHNICAL DATA

SPECIFICATION

Each standard Linkflote unit has the following dimensions:

length	5272 mm
width	2428mm
depth	1230mm
weight	3500kg approx.

Effective dimensions

Coupler to Coupler

Length 5410mm

Width 2565mm

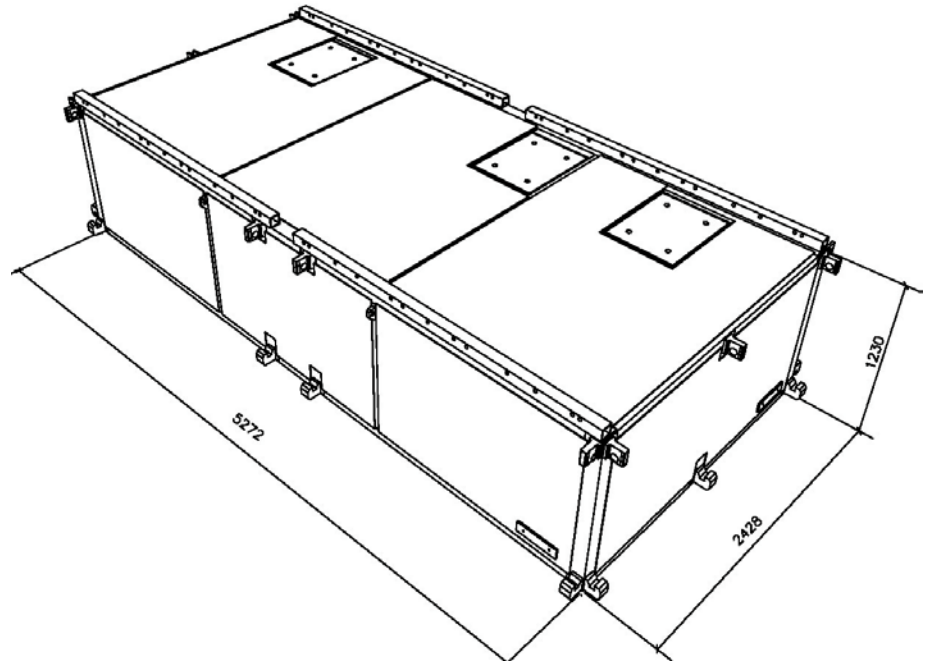
1840mm deep Linkflotes and special units can be manufactured to order.

All standard Linkflote units are produced with the following paint finish:

External -- Blast clean SA2.5,
1 Coat Coal Tar Epoxy to mean thickness of 200 microns.

Internal -- Wire Brush and
1 Coat Coal tar Epoxy to nominal thickness of 50 microns.

Other paint specifications to meet specific customer requirements are available on request.
Cathodic protection can be added as an optional extra.



LOAD CAPABILITIES OF 1230mm DEEP LINKFLOTES

All of the safe working loads quoted below have been considered in terms of the structural adequacy of the Linkflote units. Whether these loads can be safely applied to a particular Linkflote arrangement needs to be demonstrated by undertaking a stability analysis / buoyancy check.

Coupler Capacity

One set of couplers (which comprises one top pinned coupler and one bottom hooked lug) will safely accept the following combined loads:

Bending = 191kNm
Shear = 70kN

Where two sets of couplers occur on a corner post at right angles to one another, both sets of couplers can sustain the loads simultaneously.

Where Linkflotes are side coupled, the number of couplers to be considered effective from the total available should be in the proportion of 8 out of 12.

Where Linkflotes are end coupled, the number of couplers to be considered effective from the total available should be in the proportion of 6 out of 8.

Gunwale Capacity

Downward load - Using a Linkflote saddle to spread the load over a 410mm length of gunwale the maximum vertically downward load that can be safely carried is **200kN**.

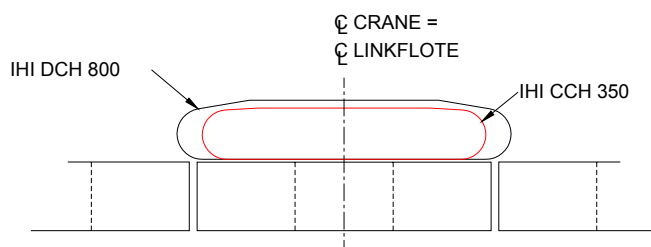
Upward load - A **40kN** vertically upward load may be applied to the gunwale at any hole position. Note, however, that if a series of holes are to be loaded the acceptability of the total uplift force being applied must be checked.

Deck Capacity

Uniformly distributed load - The Linkflote units are structurally capable of resisting a uniformly distributed load of **20kN/m²**. Note, however, that this load could never be applied in practice over the full deck area as it is greater than the load required to submerge the Linkflote units.

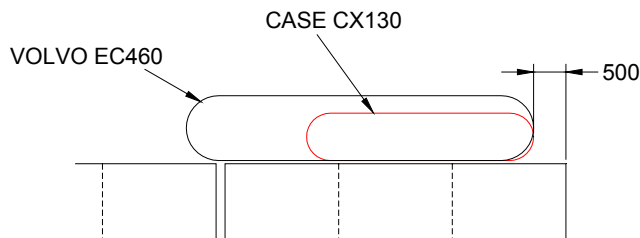
Point/wheel load - Without any additional decking the Linkflote units are capable of carrying a maximum 300mm x 300mm patch load of **11.768kN**. This is sufficient for normal road traffic i.e. small vehicles with an axle load of up to **1.6tonne** assuming a 75:25 load distribution. Further stiffening or timber / steel mats will be required if the Linkflotes are to be used by heavy goods vehicles.

Specific plant loading - The Linkflote structural capacity has been assessed for some specific crawler crane and excavator loadings. The following sketches identify necessary limitations on the positioning of those pieces of plant.



The Linkflotes have been checked for crawler cranes between 35tonne and 80tonne:

Crawler cranes should be positioned so that the centreline of the crane coincides with the centreline of a Linkflote unit.



The Linkflotes have been checked for the excavators between 13tonne and 47tonne.

All excavators should be positioned with the front of the tracks 500mm from the edge of a Linkflote unit.