



The state-of-the-art subframe concept for the Aluvan dry freight bodies

Basic execution

Aluvan offers a unique concept for an ultra easy and efficient construction of sub-frames perfectly suitable for all modern brands of light commercial vehicles (3,5T up to 12T).

Cross bearers mounted to floor

a. Cross bearers

- See detail drawings nrs 2, 3 & 4
- pre-mounted to the floor
- 3mm thick galvanised steel plate (20µm zinc)
- height 80mm
- centre distance 300 or 500mm
- complete with end pieces (see detail drawing nr 6) : galvanised steel plate with thickness 4mm (20µm zinc)

b. Cant rail

- pre-assembled cant rail
- 3mm thick galvanised steel plate (20µm zinc)

c. Floor

- Multiplex floor of 18mm
- The floor sheet is completely composed of birch or beech wood. The upper side of the floor is provided with a dark brown hardwearing phenolcoating with a non-skid pattern (200gr/m²). A smooth, dark brown, moisture-resistant film is protecting the underside of the floor
- Taber value: >=570 rotations, according to DIN 53799.

Maximum length of subframe : 7,5m

How to order your subframe ?

Following information needs to be specified :

- full specification of truck (wheel basis, type and model of truck, distance between runners of truck)
- use of truck; max. point load – maximum overall load

Surface finish of the subframe

a. the basic execution of the subframe is provided with galvanised profiles. The cuts are left untreated. This execution assumes that a follow-up treatment will be done by the customer (e.g. Dinitrol).

b. for a perfect finish of the subframe, Aluvan can offer a fully in house painted subframe. Our 2 components poly-urethane lacquer (standard available in white and grey) assures an excellent wear-resistance and a high quality aesthetic finish of the subframe.

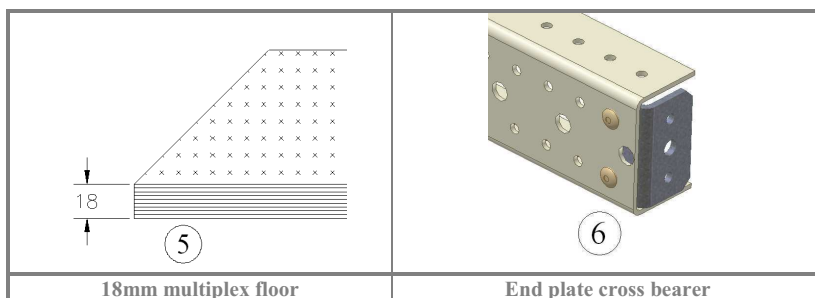
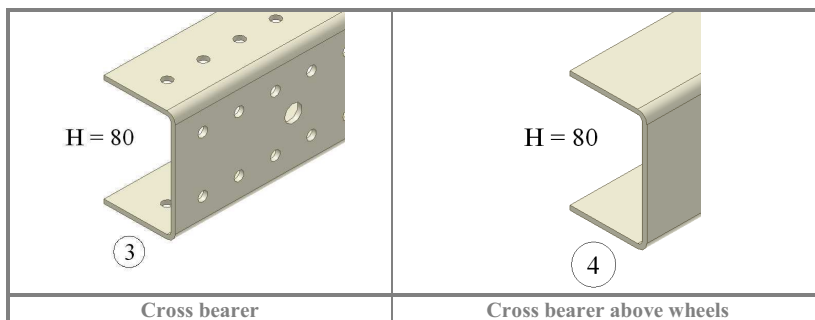
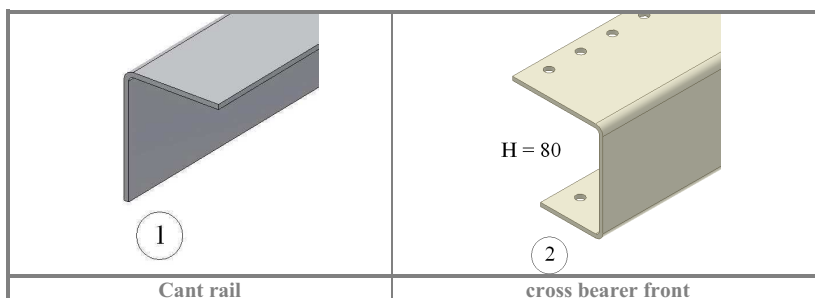
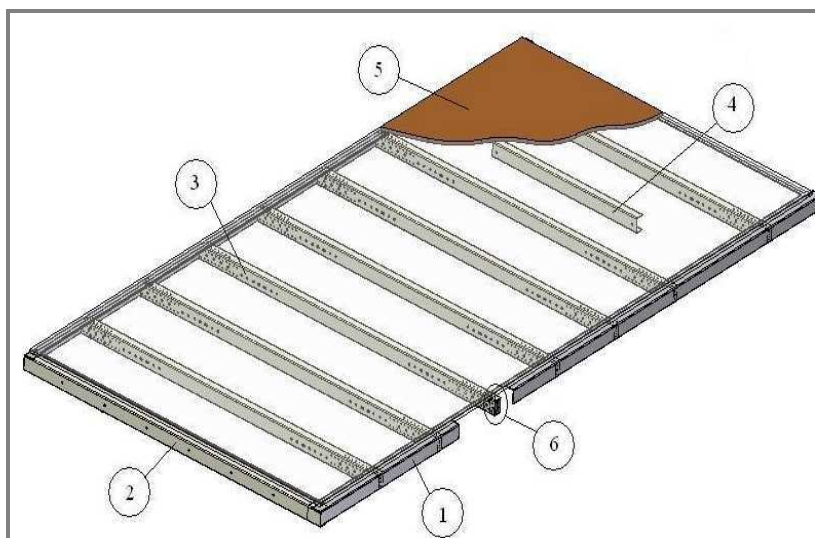
Needed assembly time

2 hours

For a really easy assembly :

- in case the runners are delivered (option), the chassis brackets are included (and mounted in case of mounted runners)
- the cross bearer front (2) is predrilled for an easy and quick connection to the front end
- no need for welding (=labour intensive, so expensive)
- ...

Available for all Aluvan dry freight bodies (except MiroVan)



The options

a. The runners

- see a on drawing
- supplied loose or premounted
- 4mm thick galvanised steel plate (20µm zinc)
- V-cut in front, according to the instructions of the truck manufacturers.
- cut to size & predrilled
- 2 possible heights : 110&160mm (65mm exclusively in cataphorese (KTL) execution) with pre-mounted truck-brackets (as an option)
- 4 mm electrolytic zinc plated steel profiles (12 µm zinc)

b. Lateral position lights

- see b. on drawing
- exact number is determined by European regulations

c. Adapted cant rail :

- see c on drawing
- for sliding curtain sides of FlexoVan
- two types :
- for sliding curtain side with drop side
- for sliding curtain side without drop side

d. Reinforcement connection runner to taillift

- see d. on drawing
- in combination with option C.1.
- 3 mm thick galvanised steel plate (20µm zinc)
- highly recommended in case of hydraulic taillift this reinforcement is bolted to the last metre of the runner, together with the runner forming a U-profile

e. Aluminium step in rear :

- see e on drawing
- step over complete width
- provided with antiskid pattern
- both ends are finished with aesthetic rubber caps
- the step is supplied loose and is very easy to mount
- including 2 galvanised steel support-tubes finished in grey colour, complete with fixation accessories

f. Aluminium bicycle protection bar

- 1 row high quality single lateral protection bar obligatory for commercial vehicles class N2 and N3, so also for light commercial vehicles.
- in anodised aluminium execution/supplied loose the total length must be specified ... Aluvan supplies the bars in the exact length
- 2 galvanised steel vertical supports painted in grey colour, delivered in the exact size finished at the front with rounded alu profile
- both ends finished with aesthetic plastic caps

g. – j. Mounting brackets

- for mounting runners to cross bearers
- 4 mm electrolytic zinc plated steel profiles (12 µm zinc)

k. Truck brackets

- each truck brand has own truck brackets
- 4 mm electrolytic zinc plated steel profile (12 µm zinc)

l. Factory painted subframe

- for an excellent protection against corrosion and a perfect finish.
- 2 component polyurethane paint standard available in white, grey and black colour

m. Mudguard and mudflap

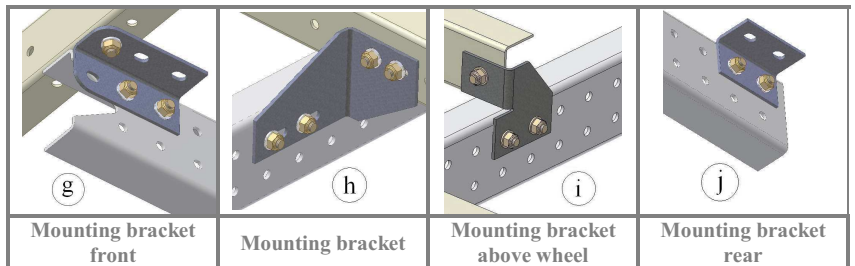
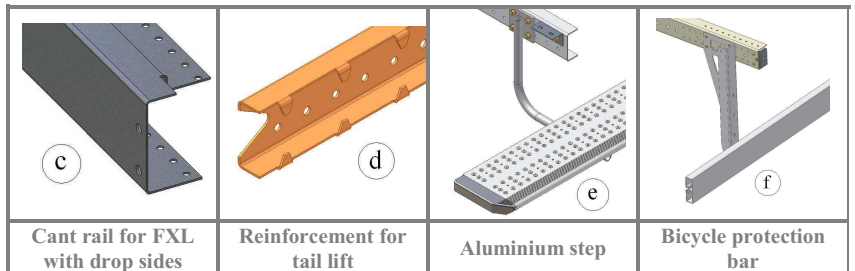
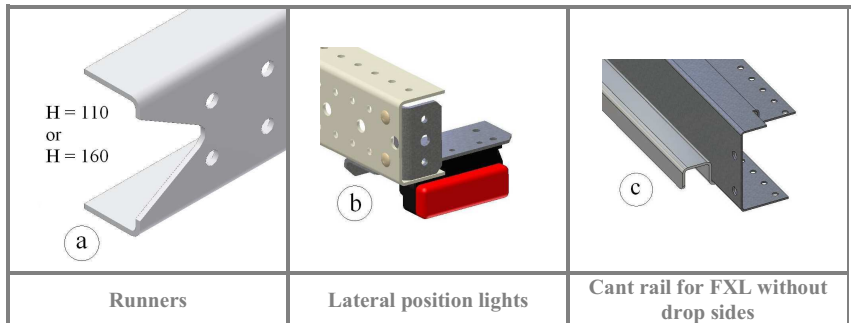
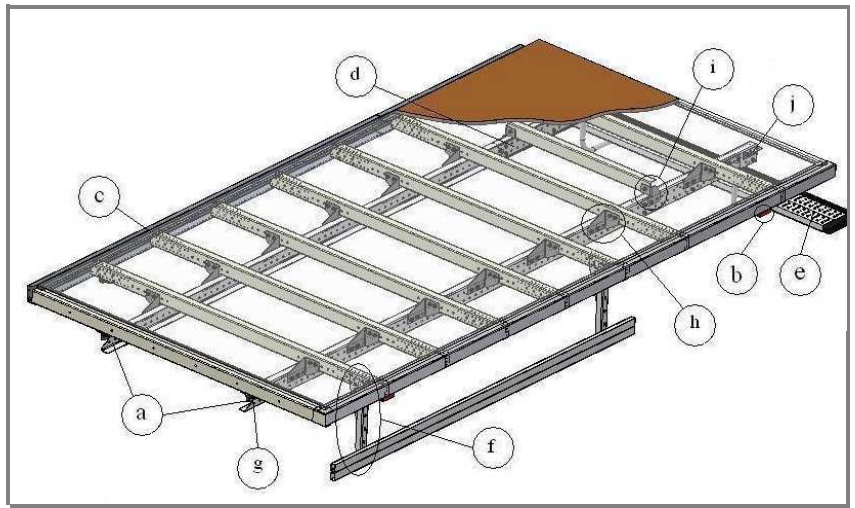
- complete with connection parts for the assembly

n. Other floor thicknesses

- 15mm, for maximal external body width 2195mm
- other thickness or other floor types : contact us

o. – Cataphorese (KTL) execution of cross bearers and runners (110&65mm)

- the cataphorese treatment results in a black silky gloss surface, and boasts even better corrosion protection than galvanising.



Subframe supplied loose, ready for assembly:

if desired, Aluvan can supply the subframe in loose elements ... all perfectly prepared for a smooth assembly

NEW : Aluminium subframe

- Designed for light commercial vehicles : 3,5T up to max. 5T
- Max. width 2,55m - Max length 5,083m
- Aluminium crossbearer with height 70mm – placed every 500mm (<=3,5T) or 375mm (>3,5T)
- Optionally available runners : a. galvanised steel (110*50*4mm or 160*50*4mm) b. aluminium (140*...)

Edition February 20011 - subject to modifications