

	Ref	New bending	New shear	Load factor
A	120	150.0	150.0	1.50
B	210	300.0	300.0	1.50

☐ A Loads
☒ B Loads
☒ Traffic loads included

Load combinations

ULS no Traffic Load combination (Deadload, Surfacing, Braking, Lateral Force, Wind)

ULS Traffic included ULS no traffic and Traffic envelope (A-vehicle and B-vehicle)

This is how the load combinations should look like when exporting from Brigade to CDB.

Alt 1: ☒ Traffic loads included

Ultimate	ULS Traffic included
ClassA	Traffic Classification, A-vehicle
ClassB	Traffic Classification, B-vehicle

Alt 2: ☐ Traffic loads included

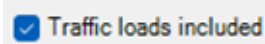
Ultimate	ULS no Traffic
ClassA	Traffic Classification, A-vehicle
ClassB	Traffic Classification, B-vehicle

Brigade export

Reinforcement>Reinforcement design

The image shows two instances of the 'Reinforcement Design' dialog box. The left instance is in the 'Design Forces' tab, showing 'Ultimate Limit State' as 'ULS inc Traffic b'. The right instance is in the 'Vehicle Envelopes' section, showing 'A-Vehicle' and 'B-Vehicle' as 'Traffic Classification, A-Vehicle' and 'Traffic Classification, B-Vehicle' respectively. Both instances have 'Reinforcement Direction' set to 'Transversal' and 'Result Lines' set to '2591 -> 2627'.

Alt 1:



Ultimate Limit Stat ULS Traffic included

Alt 2:



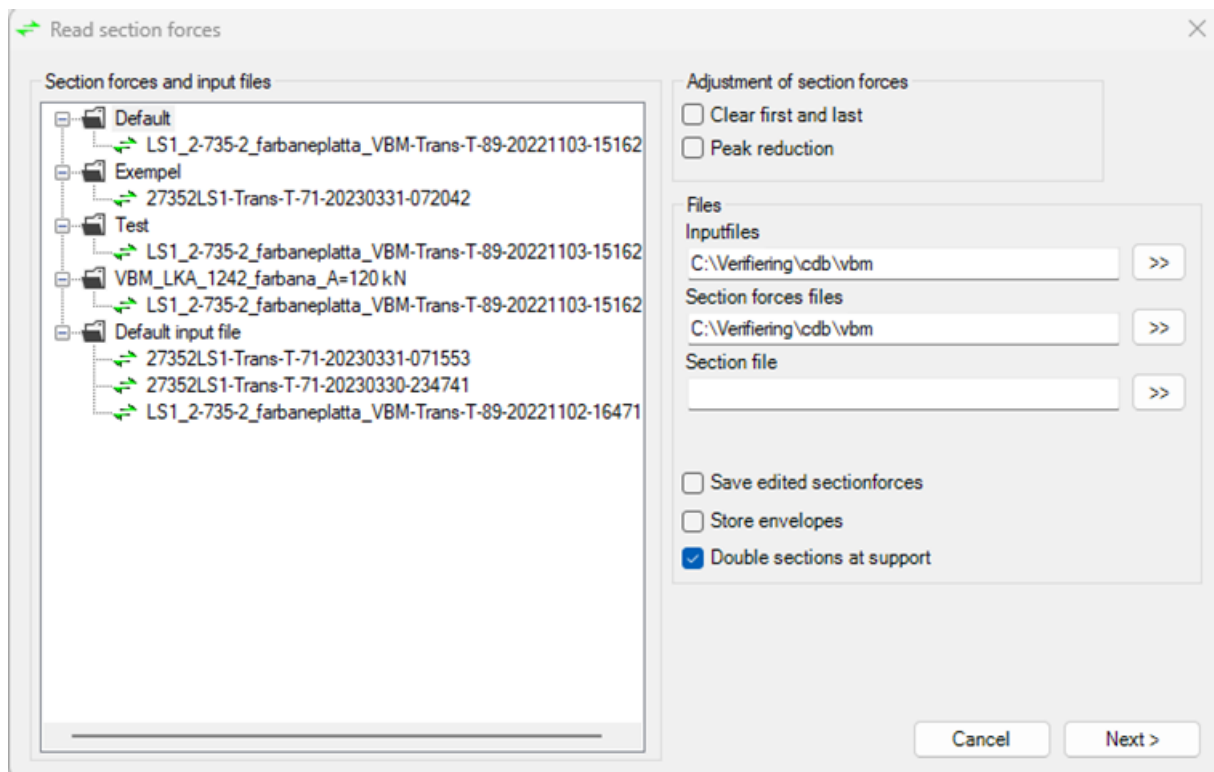
Ultimate Limit Stat ULS no Traffic

A-vehicle Traffic loads A-Vehicle

B-vehicle Traffic loads B-Vehicle

Brigade exports section forces and geometry, this file ends up in the directory for the Brigade project.

CDB Import Section forces->Read section forces



I always use this routine when I use CDB, because it gives me an overview of which files I use.

The file **Section forces** export from Brigade.

The file **Input file** creates and are used by CDB.

In the input file there is a reference to the section force file, which files belong together are clearly visible in this dialog.

In the input file there is an xml tag that indicates which Section Force file belongs to the current **Input file**.

CDB Import Input->Classification

	Ref	New bending	New shear	Load factor
A	120	150.0	150.0	1.50
B	210	300.0	300.0	1.50

☐ A Loads
☒ B Loads
☒ Traffic loads included

Close

Ref	Ref value from Brigade
New bending	scale up factor bending design
New shear	scale up factor shear design
Load factor	Load factor traffic loads
Included in calculation	If A or/and B shall be calculated
Traffic loads Included	If traffic loads are included in the exports from Brigade

☒ Traffic loads included

Trafficenvelope=Traffic envelope (A-vehicle and B-vehicle)

Vehicle= Vehicle A and/or Vehicle B

Ref forces ULS Traffic included

Scaled Up Forces $(\text{ULS Traffic included} - \text{Trafficenvelope} * \text{Factor}) + \text{Vehicle} * \text{Factor} * \text{New Bending}$

☐ Traffic loads included

Vehicle= Vehicle A and/or Vehicle B

Ref forces ULS no Traffic+Vehicle*Factor*Ref Bending

Scaled Up Forces ULS no Traffic+Vehicle*Factor*New Bending