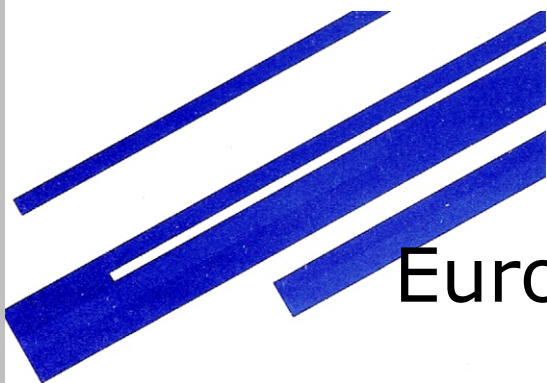


cdbMerge

Program merges csv files to an xmlfile.

User manual

Rev: A





User manual

cdbMerge

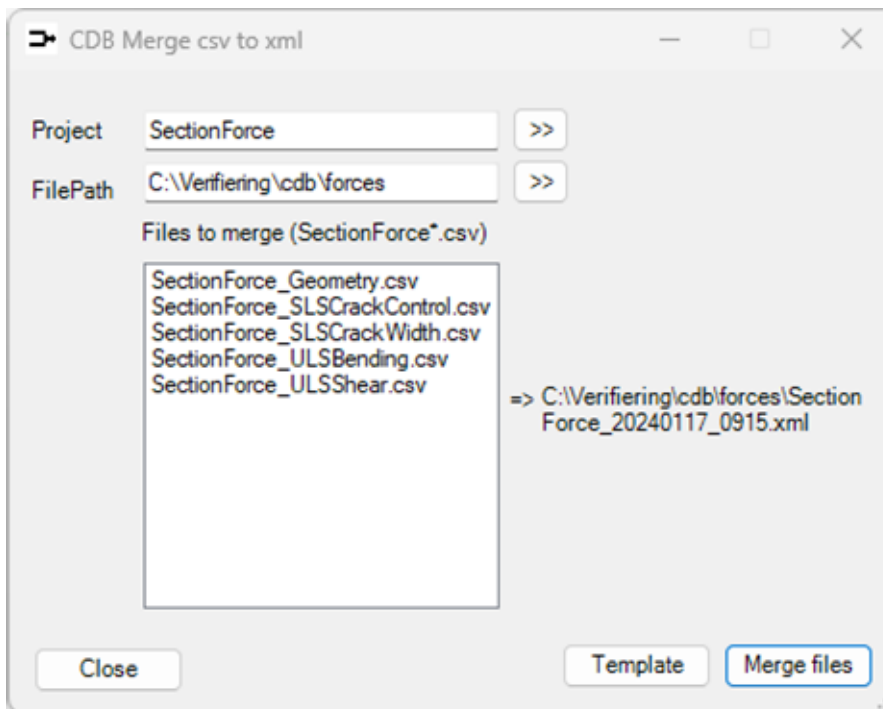
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1 General

The program merges section forces and geometry from individual csv files into an xml file that Concrete Designer Bridge can read.

Each individual csv must have a header line indicating which values to load.

2 Main window



- Project** Project name, leading text for files.
- Filepath** Path where csv files are located.
- >> Browse file path, find csv files path.
- >> Browse file path, find csv files.
- Close** Exit program.
- Template** The program generates template files in the file path.
- Merge Files** The program merges the input files *.csv to an xml file.

3 Template

3.1 Files

Filename	Description	Header
Template_ClassA_Bend.csv	Classification A-veichle bending	Bending
Template_ClassA_Shear.csv	Classification A-veichle shear	Bending
Template_ClassB_Bend.csv	Classification B-veichle bending	Bending
Template_ClassB_Shear.csv	Classification A-veichle shear	Bending
Template_Fat_CyclicBending.csv	Fatigue Cyclic Bending	Bending
Template_Fat_CyclicShear.csv	Fatigue Cyclic shear	Bending
Template_Fat_PermBending.csv	Fatigue Permanent Bending	Bending
Template_Fat_PermShear.csv	Fatigue Permanent Shear	Bending
Template_Fat_VarBending.csv	Fatigue Variable Bending	Bending
Template_Fat_VarShear.csv	Fatigue Variable Shear	Bending
Template_Geometry.csv	Geometry	Geometry
Template_SLSCrackControl.csv	SLS Crack Control	Bending
Template_SLSCrackWidth.csv	SLS Crack Width	Bending
Template_ULSBending.csv	ULS Bending	Bending
Template_ULSShear.csv	ULS Shear	Shear

3.2 Header

Each file must have a first line specifying which values are to be loaded.

3.2.1 Geometry

line	section	xcoord	htop	hbot	bw	NEdexc	support
1	1	0	1200	1200	3000	-600	J
1	2	1,5	1200	1200	3000	-600	N
1	3	2,5	1200	1200	3000	-600	N

Line	Line number (starts with 1)
Section	Section number (starts with 1)
xcoord	x-coordinates, from left to right [m]
htop	Total height of the beam, used to design top reinforcement [mm]
hbot	Total height of the beam, used to design bottom reinforcement [mm]
bw	width of the web
NEdexc	Eccentricity of axial force, given from the top of the section positive upwards. Usually equal to $-h/2$
Support	J- Support in the section, N- No support in the section

3.2.2 Bending

line	section	MEd_min	MEd_max	VEd_min	VEd_max	NEd_min	NEd_max
1	1	-10	20	30	40	50	60
1	2	-10	20	30	40	50	60

Line	Line number (starts with 1)
Section	Section number (starts with 1)
NEd_min	Axial force min[kNm]
MEd_min	Moment min [kNm]
VEd_min	Shear force min [kNm]
NEd_max	Axial force max[kNm]
MEd_max	Moment max [kNm]
VEd_max	Shear force max[kNm]

3.2.3 Shear

line	section	MEd_min	MEd_max	VEd_min	VpEd_min	NEd_max	MEd_max	VEd_max	VpEd_max
1	1	-10	20	30	40	50	60	70	80
1	2	-10	20	30	40	50	60	70	80

Line	Line number (starts with 1)
Section	Section number (starts with 1)
NEd_min	Axial force min[kNm]
MEd_min	Moment min [kNm]
VEd_min	Shear force min [kNm]
VpEd_min	Shear force min [kNm]
NEd_max	Axial force max[kNm]
MEd_max	Moment max [kNm]
VEd_max	Shear force max[kNm]
VpEd_max	Shear force max [kNm]