# Release notes IDEA StatiCa Concrete & Prestressing version 9

Some of below mentioned improvements have been released in latest patches of IDEA StatiCa 8.2.

#### Lateral instability for slender beams

New check is now available (as default) in Beam, BIM and Frame applications in Concrete Design 1D. Checkbox for switching on/off is in last section of Data and input of relevant values is in the new Lateral stability tab in navigator. The results can be obtained for both, persistent and transient situations according EN 1992-1-1 article 5.9 (3).

Dat	Data											
Lat	Lateral stability											
	Check	Description	b [m]	h [m]	10t [m]	Situation	10t / b [-]	Limit [-]	h/b[-]	Limit h / b [-]	Status	
		Crane	0.80	1.20	20.00	Transient •	25.00	61.15	1.50	3.50	0	*
>		End of design working life	0.80	1.20	20.00	Persistent •	25.00	43.68	1.50	2.50	0	×

### Elastic modulus input in construction stages

New check is now available (as default) in Beam, BIM and Frame applications in Concrete Design 1D. Checkbox for switching on/off is in last section of Data and input of relevant values is in the new Lateral stability tab in navigator. The results can be obtained for both persistent and transient situations according EN 1992-1-1 article 5.9 (3).

Co	nstri	istruction and service stages 🔐 🗶 Update combinations Generate combinations								
			Name	Time [d] T	Check	Description		4	In-plane restraint	
		1	Casting	0.0					In-plane restraint	
>		2	Transfer of prestressing	1.2				4	Concrete strength in current constru	iction stage
		3	Storage yard	5.1					User-specified concrete strength	
		4	Transport	25.0					fck [MPa]	7.3
		5	Temporary supports	26.0					User-specified concrete modulus	
	V	6	Casting of composite slab	28.0					Ecm [MPa]	25000.0
		7	Final supports	35.0				4	Beam spans	
		8	Superimposed dead load	60.0					L1 [m]	0.00
		9	End of design working life	18250.0					L [m]	15.00
_			5 5						L2 [m]	0.00
								4	Temporary supports	
									To design position	

## Midas Civil BIM link improvement

A small improvement for our users of BIM link between Midas Civil and IDEA StatiCa BIM. Two dialogs at the beginning of process can be avoided if we do two things.

•	Save	settings
	Ouve	Settings

Settings for Design groups and Design me	mbers generation X								
Design member (DM)									
DM consists of one or more consequential st	ructural members and is designed as the whole.								
Create default DMs for whole structure									
Options									
<ul> <li>Try to connect horizontal members into</li> <li>Try to connect vertical members into sir</li> <li>Design member has the same name as</li> </ul>	single DMs ngle DMs the first involved member.								
Design group (DG)	ign group (DG)								
DG is a collection of DMs of the same cross-s	G is a collection of DMs of the same cross-section and material.								
Create design groups also for 2D membe	rs								
Concrete	Steel								
Tolerance of DM length 0.01 m	Tolerance of DM length 0.00 m								
	Collect DMs to one design group without respecting the number and length of their individual structural members.								
Do not show this dialog again									
Save settings	Close								

Once we set all checkboxes as desired, we can tick checkbox "Do not show this dialog again" and Save settings. They can be changed anytime later by following ribbon button Settings:

Release notes IDEA StatiCa Concrete & Prestressing version 9

i 😳 🔡 📫 📼										30	A StatCa BM - 1	Skolenie_p
File Home Mo	odel Viewe	H.	Concrete Design 1D									
Unde Redo Code Defection settings -	Section checks P Concrete	n Deta RC • design	led Check of combination	AI Zone templates	Export Detail	few tings - Result View settings an	1.00 \$ 1.00 \$ 1.00 \$ 1.00 \$	Draw SV2	Mx ULS		Dimension lines	Stirrup descriptic Detailed
wigator	• 0 X	Mair	View									
aroup 💌		11									DG1	
xG1	-		Combination ch	veck					- 0	×		
Model	*		Comb	ination [Stage]		Missing		Redu	ndant			
Design members Design groups Result Classes			_6.10gr2 [konec[L]] _6.10gr1 [konec[L]] _Chgr2 [konec[L]] _Chgr1 [konec[L]]	1			51 51 51 51	ed 00, sed 10, se ed 00, sed 10, se ed 00, sed 10, se ed 00, sed 10, se	ed 20, sed 30 ed 20, sed 30 ed 20, sed 30 ed 20, sed 30			
Calculation	\$		Freq [konec[L]]				P	rd 00, sed 10, s	ed 20, sed 30			
Member 1D forces Member 2D forces			Q-P [konec[L]]				54	ed 00, sed 10, se	ed 20, sed 30			
Member 1D deformations											A-A	
Member 20 deformations											<u> </u>	_
Mesh										_		·
User-defined forces	\$					1	Save to	file	Close			Ш
User-defined forces											89.60	
Concrete Design 1D	\$		a abokokokoko	okokokokokoko	, okokokoko	, ototototototo		okokokokoko	lokokokoko	ιοφοφοφο		
Data					(111)		1111	11111		111	(1111)	111

#### · Have correct data

If we don't find any non-conformity in your imported project, the next dialog won't pop-up. In case we find one, it will appear automatically. If you would like to review them later, it will be possible now by previously shown ribbon button Nonconformities.

Import details			-		×
Issues		Name of	entity(ies)		
The name of material does not fit any concrete grade for selected national standard. Therefore default concrete material has been used instead including appropriate material properties. Note that internal forces were calculated by midas CIVIL with different value of E modulus than the value, which will be used in IDEA StatiCa section and deflection checks.	Pricnik				
Please, check assignment of load cases into load groups and corresponding combination factors for load groups					
Check moving load cases identification numbers in Midas Civil. It should be from 1 to number of load cases (1,2,3,4,)					
Deformation of 1D members are not imported for structure with stages					
	Save	to file		Close	

Another improvement is helpful while trying to find missing or redundant load cases in combinations. E.g., if the permanent load case is included in combination prescription but is not to be found in any of construction stages, we might get wrong values or the combination won't be taken into account (marked as incorrect). It can be accessed in Reinforcement tab before the export to RCS.

#### Release notes IDEA StatiCa Concrete & Prestressing version 9

<b> </b> =				D	EA StatiCa BIM - Skolenie_
File Home Model A Undo Redo 25.6 25.6 2 Code Defiction settings - ch	Section Det ecks RC +	Lailed Check of Check	Member 1.00 t Section 1.00 t View Settings • Result 1.00 t View settings and scale	Draw S N S Mx ULS S V2 S Vy My S Mz Internal forces	Dimension lines
avigator 👘	× Ma	in View			
Group V A	•	Combination check		- 🗆 X	DG1
Model : Design members Design groups Result Classes	*	Combination [Stage] _6.10gr2 [konec[L]] _6.10gr1 [konec[L]] _Chgr2 [konec[L]] _Chgr2 [konec[L]]	Missing	Redundant           sed 00, sed 10, sed 20, sed 30           sed 00, sed 10, sed 20, sed 30           sed 00, sed 10, sed 20, sed 30           sed 00, sed 10, sed 20, sed 30	
Calculation : Member 1D forces Member 2D forces	*	_Freq [konec[L]] Q-P [konec[L]]		sed 00, sed 10, sed 20, sed 30 sed 00, sed 10, sed 20, sed 30	
Member 1D deformations Member 2D deformations Mesh					A-A
User-defined forces	*		Save	to file Close	
Concrete Design 1D	*	ૢૼ૱ૢઌૡ૾ઌૡ૾ઌૡ૾ઌૡ૾ઌૡ૾ઌૡ૾ઌૡ૾ઌૡ૽ઌૡ૽ઌૡ૽ઌ	0\$0\$0\$0\$0\$0\$0\$0\$0\$0\$0\$0\$0\$0	ġoġoġoġoġoġoġoġoġoġoġoġoġoġoġoġo	89.60 00000000000000000000000000000000000