

Eurocodes Overview in the FRILO-applications

List of implemented Eurocodes with National Annex

Release R-2023-2

Application name	Short name	DIN EN	ÖNORM EN	BS EN	UNI EN / NTC	PN EN	NF EN	NEN EN	NBN EN	CSN EN	EN
EN 1991-1-3 - Snow loads											
Wind and Snow Loads	LWS+	2019	2022	2015	2018	2010					
Collar and Articulated Purlins	D7+	2019	2022	2015	2018	2010					2010
Continuous Rafter	Dach+	2019	2022	2015	2018	2010					2010
Glued Laminated Girder	D10+	2019	2022	2015	2018	2010					2010
Trusses Steel	FWS+	2019	2022	2015							
Trusses Timber	FWH+	2019	2022	2015		2010					
EN 1991-1-4 - Wind loads											
Building Model	GEO	2010	2013	2011							
Wind Loads	WL	2010	2013	2011							
Wind and Snow Loads	LWS+	2010	2019	2011	2018	2010					
Collar and Articulated Purlins	D7+	2010	2019	2011	2018	2010					2010
Continuous Rafter	Dach+	2010	2019	2011	2018	2010					2010
Glued Laminated Girder	D10+	2010	2019	2011	2018	2010					2010
Steel Bracing	ST12+	2010	2019	2011							
Trusses Steel	FWS+	2010	2019	2011							
Trusses Timber	FWH+	2010	2019	2011		2010					
EN 1992 - Reinforced concrete											
Building Model	GEO	2015	2018	2015	2018	2010					2014
Continuous Beam	DLT+	2015	2018	2015	2018	2010					2014
Continuous Beam Concrete	BTM+	2015	2018	2015	2018	2010					2014
Continuous Plates IAW Piper/Martens	PL5	✓	✓								✓
Plates by Finite Elements	PLT	2015	2018	2015	2018	2010					2014
Panels by Finite Elements	SCN	2015	2018	2015	2018	2010					2014
Reinforced Concrete Design	B2	2015	2018	2015	2018	2010					2014
Reinforced Concrete Column	B5+	2015	2018			2010					2014
Punching Shear Analysis	B6+	2015	2018	2015	2018	2010					2014
Flight of Stairs	B7+	2015	2018	2015	2018	2010					2014
Pre-stressed Concrete Girder	B8	2015	2018	2015		2010					2014
Reinforced Concrete Corbel	B9+	2015	2018	2015	2018	2010					2014
Reinforced Concrete Half Joint	B10+	2015	2018	2015	2018	2010					2014
Crack Width Verification	B11	2015	2018	2015		2010					2014
Dynamically Balanced Tank	BHA	2015	2011								2010

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Isolated Foundation+	FD+	2015	2018	2015		2010	2016				2014
Pad Foundation	FDB+	2015	2018	2015		2010	2016				2014
Reinforced Raft Foundation	FDR+	2015	2018	2015		2010	2016				2014
Strip Foundation	FDS+	2015	2018	2015		2010	2016				2014
Mast Foundation	FDM+	2015	2018	2015		2010	2016				2014
Elastic Bedded Beam	BEB+	2015	2018	2015	2018	2010					2014
Cantilevered Retaining Wall	WSM+	2015	2011			2010					
Gravity Wall	SGW+	2015	2011								
Basement Wall	BWA+	2015	2018	2015	2018	2010					2014
Framework	RSX	2015	2018	2015							2014
Tunnel Frame	TEB	2015	2011	2015		2010					2014
Toolbox Reinforced Concrete	TB	2015	2018								

Application name	Short name	DIN EN	ÖNORM EN	BS EN	UNI EN / NTC	PN EN	NF EN	NEN EN	NBN EN	CSN EN	EN
EN 1993 - Steel											
Building Model	GEO	2015	2007	2008							
Continuous Beam	DLT	2015	2017	2015							2010
Fin Plate	SFB+	2015	2017	2008							
Single-span Steel Column	STS+	2015	2017	2008		2010					
Single-span Steel Beam	STT+	2015	2017	2008		2010					
Steel Column Base	ST3	✓	✓								
Steel Girder Support	ST4	✓	2007	2006							
Weld Desing	ST5	✓	✓								✓
Pocketed Steel Column Base	ST6	✓	✓	✓							✓
Steel Section Design	ST7	✓	✓								
Typified Steel Connections	STY+	✓									
Bolted Steel Connection	ST9	✓	✓								
Bolted Beam-to-Column Connection	SPS+	2015	2007								
Steel Bracing	ST12+	2015	2017	2008							
Welded Beam-to-Column Connection	SRE+	2015	2007								
Base Flange	STM+	2015	2017	2015		2010					2010
Steel Frame	STR+	2015	2017								
Stability analysis for steel	STX+	2015	2017	2008							
Portal Frame	S7+	2015	2017								
Steel Chimney Design	S8+	2010									
Crane Runway Girder	S9+	2010	2008	2009		2009					2007
Antenna Mast Design	ATB+	2010									
Lateral Torsional Buckling Analysis	BTII+	2015	2017	2008		2010					2010
Plate Buckling	PLII+	2010	2008	2008							2006
Lattice Girder Steel	FWS+	2015	2017	2008							
Framework	RSX	2015	2017	2015							2010
EN 1994 - Composite steel and concrete structures											
Composite Column	V1	✓									
Composite Beam	V3	2010	2009	2008							
EN 1995 - Timber structures											
Continuous Beam	DLT	2013	2019	2012	2018	2010					2014
Building Model	GEO	2013	2015		2018						2014
Mechanically Jointed Beams	HNV+	2013	2019	2019		2010					2014
Timber Column	HO1+	2013	2019	2019	2018	2010					2014
Skew Notch Joint	HO2+	2013	2019	2019	2018	2010					2014
Timber Tension Joint	HO3+	2013	2019	2012	2018	2010					
Frame Corner	HO6+	2013	2019	2012							2014
Timber Design	HO11+	2013	2019	2019	2018	2010					2014

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Timber Construction Details	HO12	2013	2019	2012							
Timber Joint	HO13+	2013	2019	2012	2018	2010					
Single Fastener Timber Joint	HO14+	2013	2019	2012	2018	2010					
Dovetail Connection	HSC+	2013									
Cross Laminated Timber Beams	HTB+	2013	2019	2019		2010					2014
Timber Beam	HTM+	2013	2019	2019	2018	2010					2014
Timber Wall Diaphragms	HTW+	2013	2019	2019	2018	2010					
Lattice Girder Timber	FWH+	2013	2019	2012		2010					
Collar and Articulated Purlins	D7+	2013	2019	2019	2018	2010					2014
Roof	Dach+	2013	2019	2019	2018	2010					2014
Glued Laminated Girder	D10+	2013	2019	2019	2018	2010					2014
Toolbox Timber	TB	2013	2019								
Framework	RSX	2013	2019	2012							2014

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EN 1996 - Masonry											
Multi-storey Masonry Wall	MWM+	2019	2009	2007		2010		2007	2009	2008	
Basement Masonry Wall	MWK+	2019	2009	2007							
Masonry Column	MWP+	2019	2009	2007		2010		2007	2009	2008	
Masonry Design	MWX+	2019	2009	2007		2010		2007	2009	2008	
Toolbox Masonry	TB	2012	2009								
EN 1997 - Geotechnical structures											
Earth Pressure Calculation	EDB+	2010	2013			2011					
Isolated Foundation	FD+	2010	2013	2014		2011	2018				2009
Pad Foundation	FDB+	2010	2013	2014		2011	2018				2009
Reinforced Raft Foundation	FDR+	2010	2013	2014		2011	2018				2009
Strip Foundation	FDS+	2010	2013	2014		2011	2018				2009
Mast Foundation	FDM+	2010	2013	2014		2011	2018				2009
Soil Failure Analysis	GBR+	2010	2013	2014		2011	2018				2009
Slope Failure Analysis	BBR	2009	2007	2007		2011					
Cantilevered Retaining Wall	WSM+	2010	2013			2011					
Soil Settlement	SBR+	2010	2013			2011					
Gravity Wall	SGW+	2010	2013								
EN 1998 - Earthquake resistance											
Building Model	GEO	2021	2017								2004
EN 1999 - Aluminum											
Continuous Beam	DLT	2010		2010							
Lateral Torsional Buckling Analysis	BTII+	2010									

Remark: The specified date refers to the implemented version of the National Annex of the program.

In the FRILO user interface a simplified shorthand is used for the National Annex.

This name corresponds to a design code-compliant long text (National Annex) in the FRILO text output.

Country - example timber	Version	NA user interface (short)	NA text output (long)
Germany	2013	DIN EN 1995:2013	DIN EN 1995-1-1/NA:2013-08
Austria	2015	ÖNORM EN 1995:2015	ÖNORM B 1995-1-1:2015-06
United Kingdom	2012	BS EN 1995:2012	NA to BS EN 1995-1-1/A2:2012
Italy	2018	NTC EN 1995:2018	UNI EN 1995-1-1/NTC:2018