



TWINNING PROJECT

ACHIEVING THE HIGHEST SAFETY AND TECHNICAL QUALITY OF CONSTRUCTION



Austrian Standards Institute
Consulting 



Eurocodes: Principles of Developing of National Annexes

Podgorica, 9th-11th July 2012

Jean-Armand Calgaro
Chairman of CEN/TC250

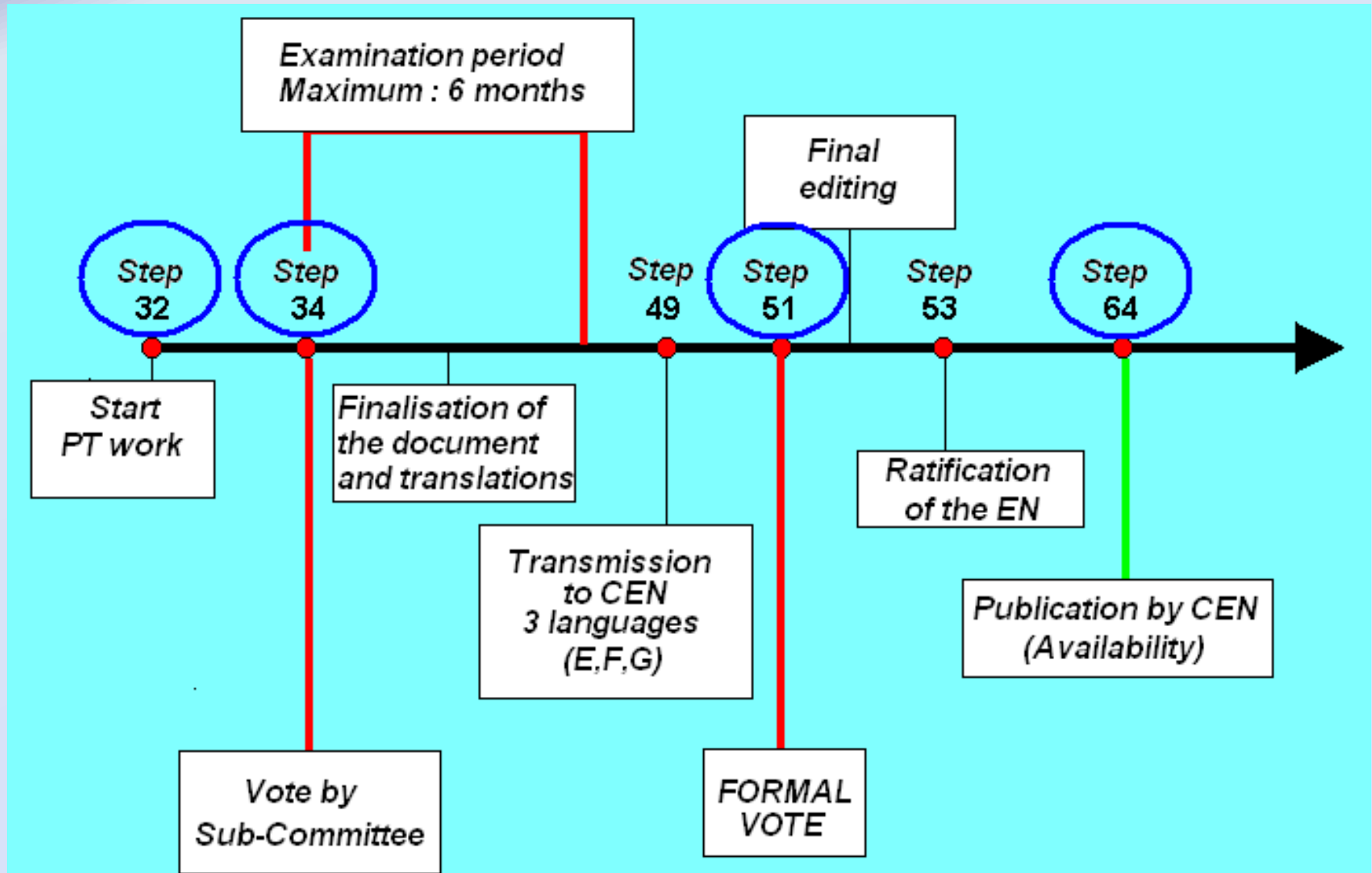


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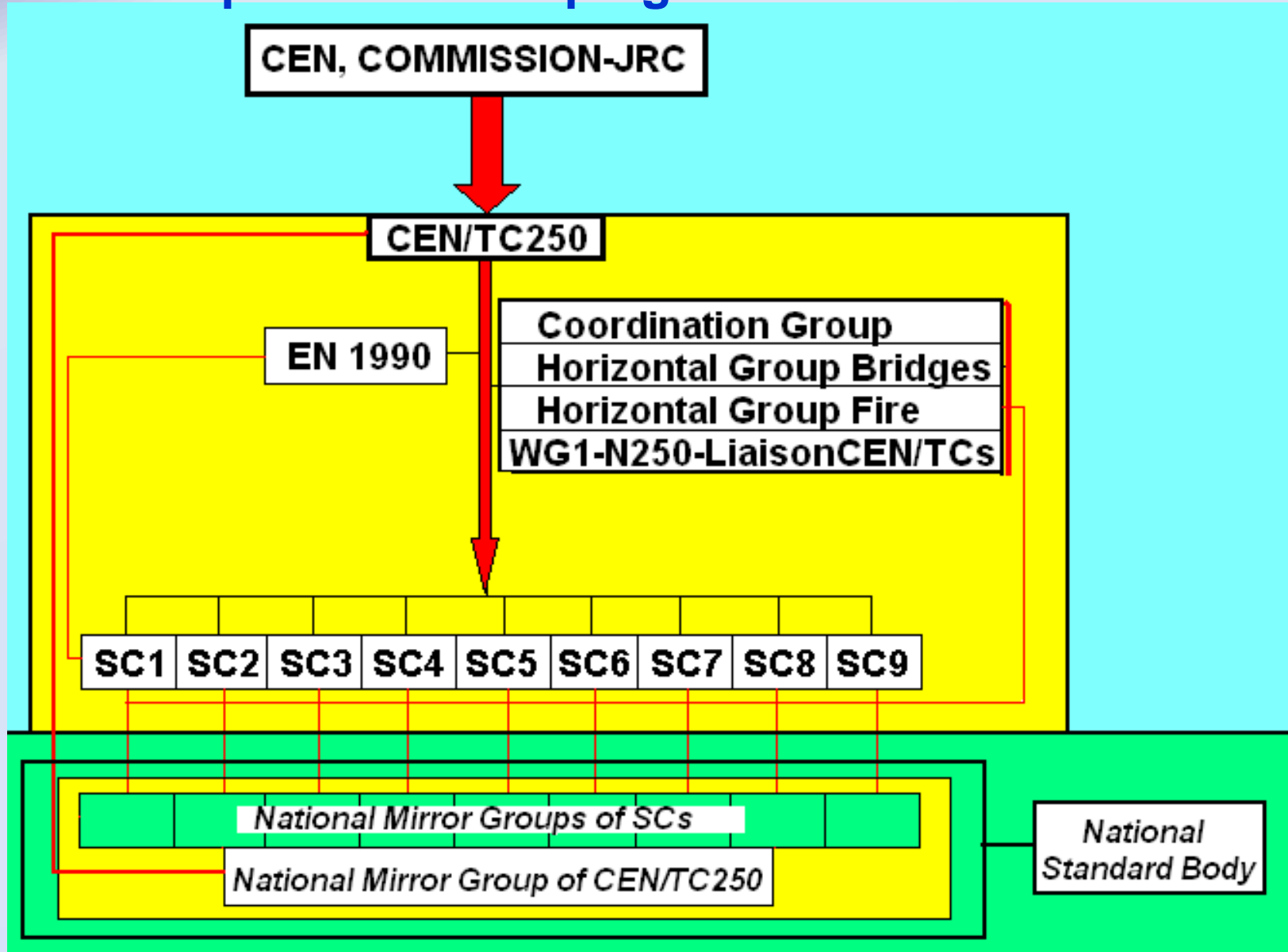
The logo for AFNOR, consisting of the lowercase letters 'afnor' in a stylized, bold, purple font.



Principles of Developing of National Annexes



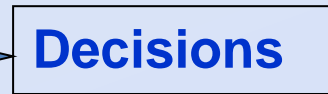
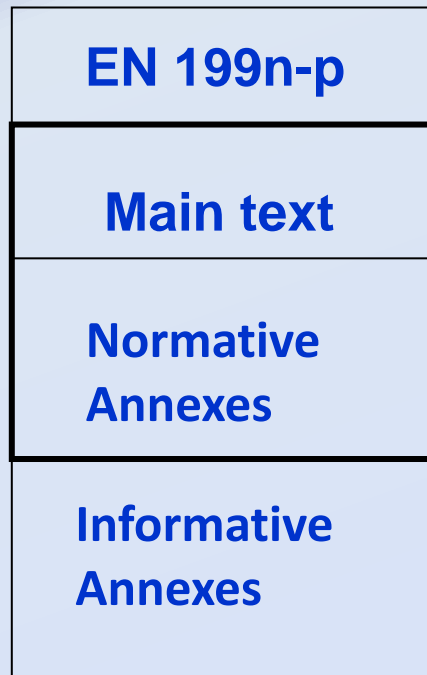
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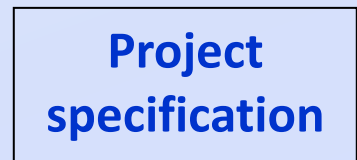
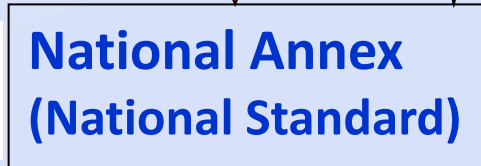
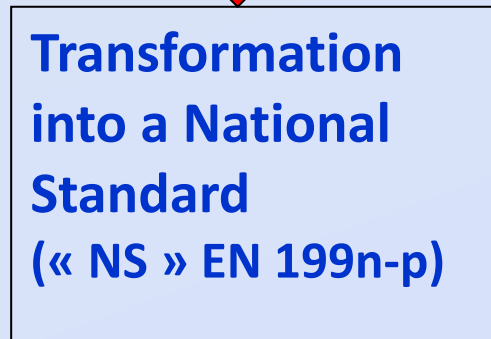
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IMPLEMENTATION OF THE EN EUROCODES

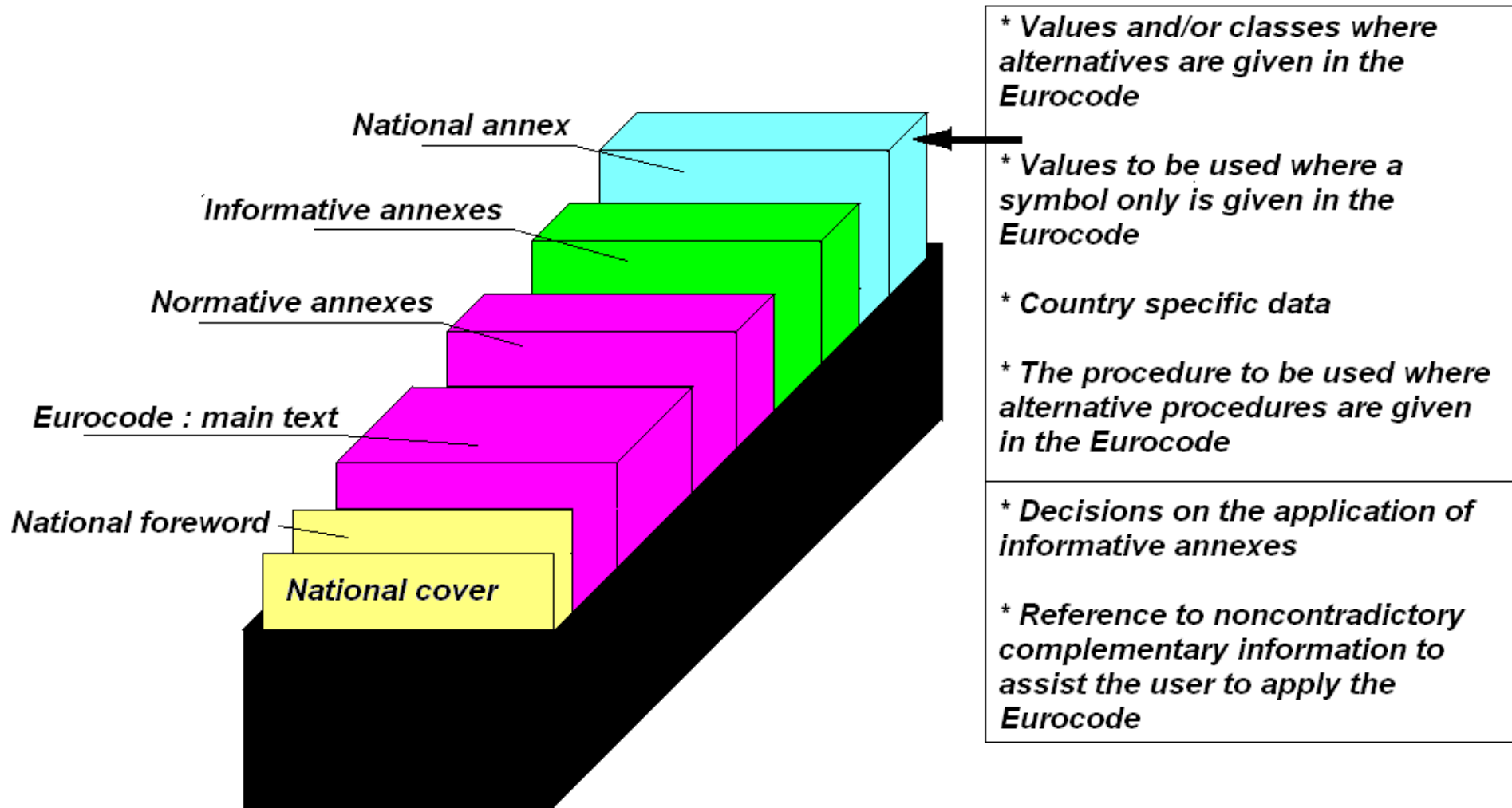
EUROPEAN LEVEL



MEMBER STATES



Principles of Developing of National Annexes



Publication of EUROCODES and National annexes in France



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Eurocode 0 – Basis of structural design

Title		Reference	Status
Eurocode - Basis of structural design		NF EN 1990	Published, 2003/03
A1	Amendment	NF EN 1990/A1	Published, 2006/07
C1	Corrigendum	EN 1990:2002/A1:2005/AC:2008	In progress
C2	Corrigendum	EN 1990:2002/A1:2005/AC:2010	In progress
AN	Annexe nationale EN 1990	NF EN 1990/NA	Published, 2011/12
AN	Annexe nationale EN 1990/A1	NF EN 1990/A1/NA	Published, 2007/12

Eurocode 1 - Actions on structures

Title		Reference	Status
Part 1-1: General actions - Densities, self-weight, imposed loads on buildings		NF EN 1991-1-1	Published, 2003/03
C1	Corrigendum	EN 1991-1-1:2002/AC:2009	Integrated, 2009/11
AN	Annexe nationale	NF P06-111-2	Published, 2004/06
Part 1-2: General actions - Actions on structures exposed to fire		NF EN 1991-1-2	Published, 2003/07
C1	Corrigendum	EN 1991-1-2:2002/AC:2009	Integrated, 2009/08
AN	Annexe nationale	NF EN 1991-1-2/NA	Published, 2007/02
Part 1-3: General actions - Snow loads		NF EN 1991-1-3	Published, 2004/04
C1	Corrigendum	EN 1991-1-3:2003/AC:2009	Integrated, 2009/10
AN	Annexe nationale	NF EN 1991-1-3/NA	Published, 2007/05
AN	Amendment to national annex	NF EN 1991-1-3/NA/A1	Published, 2011/07



Eurocode 1 - Actions on structures (continued)

Title		Reference	Status
Part 1-4: General actions - Wind actions		NF EN 1991-1-4	Published, 2005/11
A1	Amendment	NF EN 1991-1-4/A1	Published, 2010/10
C1	Corrigendum	EN 1991-1-4:2005/AC:2009	Integrated, 2010/05
C2	Corrigendum	EN 1991-1-4:2005/AC:2010	Integrated, 2010/09
AN	Annexe nationale	NF EN 1991-1-4/NA	Published, 2008/03
AN	Amendment to national annex	PR NF EN 1991-1-4/NA/A1	Published, 2011/07
Part 1-5: General actions - Thermal actions		NF EN 1991-1-5	Published, 2004/05
C1	Corrigendum	EN 1991-1-5:2002/AC:2009	Integrated, 2009/10
AN	Annexe nationale	NF EN 1991-1-5/NA	Published, 2008/02
Part 1-6: General actions - Actions during execution		NF EN 1991-1-6	Published, 2005/11
C1	Corrigendum	EN 1991-1-6:2005/AC:2008	Integrated, 2009/02
AN	Annexe nationale	NF EN 1991-1-6/NA	Published, 2009/03
Part 1-7: General actions - Accidental actions		NF EN 1991-1-7	Published, 2007/02
C1	Corrigendum	EN 1991-1-7:2006/AC:2010	Integrated, 2010/03
AN	Annexe nationale	NF EN 1991-1-7/NA	Published, 2008/09
Part 2: Traffic load on bridges		NF EN 1991-2	Published, 2004/03
C1	Corrigendum	EN 1991-2:2003/AC:2010	Integrated, 2010/06
AN	Annexe nationale	NF EN 1991-2/NA	Published, 2008/03
Part 3: Actions induced by cranes and machinery		NF EN 1991-3	Published, 2007/04
AN	Annexe nationale	NF EN 1991-3/NA	Published, 2010/01
Part 4: Silos and tanks		NF EN 1991-4	Published, 2007/05
AN	Annexe nationale	NF EN 1991-4/NA	Published, 2007/11



Eurocode 2 - Design of concrete structures

Title		Reference	Status
Part 1-1: General rules and rules for buildings		NF EN 1992-1-1	Published, 2005/10
C1	Corrigendum	EN 1992-1-1:2004/AC:2008	Integrated, 2009/06
C2	Corrigendum	EN 1992-1-1:2004/AC:2010	Integrated, 2011/10
AN	Annexe nationale	NF EN 1992-1-1/NA	Published, 2007/03
Part 1-2: General rules - Structural fire design		NF EN 1992-1-2	Published, 2005/10
C1	Corrigendum	EN 1992-1-2:2004/AC:2008	In progress
AN	Annexe nationale	NF EN 1992-1-2/NA	Published, 2007/10
Part 2: Concrete bridges - Design and detailing rules		NF EN 1992-2	Published, 2006/05
C1	Corrigendum	EN 1992-2:2005/AC:2008	In progress
AN	Annexe nationale	NF EN 1992-2/NA	Published, 2007/04
Part 3: Silos and tanks		NF EN 1992-3	Published, 2006/12
AN	Annexe nationale	NF EN 1992-3/NA	Published, 2008/07



Eurocode 3 - Design of steel structures

Title		Reference	Status
Part 1-1: General rules and rules for buildings		NF EN 1993-1-1	Published, 2005/10
C1	Corrigendum	EN 1993-1-1:2005/AC:2006	Integrated, 2006/10
C2	Corrigendum	EN 1993-1-1:2005/AC:2009	Integrated, 2010/01
AN	Annexe nationale	NF EN 1993-1-1/NA	Published, 2007/05
Part 1-2: General rules - Structural fire design		NF EN 1993-1-2	Published, 2005/11
C1	Corrigendum	EN 1993-1-2:2005/AC:2005	Integrated, 2006/11
C2	Corrigendum	EN 1993-1-2:2005/AC:2009	Integrated, 2010/05
AN	Annexe nationale	NF EN 1993-1-2/NA	Published, 2007/10
Part 1-3: General rules - Supplementary rules for cold-formed thin gauge members and sheeting		NF EN 1993-1-3	Published, 2007/03
C1	Corrigendum	EN 1993-1-3:2006/AC:2009	In progress
C2	Corrigendum	EN 1993-1-3:2006/AC:2009	In progress
AN	Annexe nationale	NF EN 1993-1-3/NA	Published, 2007/10
Part 1-4: General rules - Supplementary rules for stainless steels		NF EN 1993-1-4	Published, 2007/02
AN	Annexe nationale	NF EN 1993-1-4/NA	Published, 2008/03
Part 1-5: General rules - Supplementary rules for planar plated structures without transverse loading		NF EN 1993-1-5	Published, 2007/03
C1	Corrigendum	EN 1993-1-5:2006/AC:2009	Integrated, 2009/10
AN	Annexe nationale	NF EN 1993-1-5/NA	Published, 2007/10
Part 1-6: General rules - Supplementary rules for the shell structures		NF EN 1993-1-6	Published, 2007/07
C1	Corrigendum	EN 1993-1-6:2007/AC:2009	Integrated, 2009/10
AN	Annexe nationale	NF EN 1993-1-6/NA	Published, 2010/05



Eurocode 3 - Design of steel structures (next)

Title		Reference	Status
Part 1-7: General rules - Supplementary rules for planar plated structural elements with out of plane loading		NF EN 1993-1-7	Published, 2007/09
	C1 Corrigendum	EN 1993-1-7:2007/AC:2009	Integrated, 2009/10
	AN Annexe nationale	NF EN 1993-1-7/NA	Published, 2008/08
Part 1-8: Design of joints		NF EN 1993-1-8	Published, 2005/12
	C1 Corrigendum	EN 1993-1-8:2005/AC:2005	Integrated, 2006/10
	C2 Corrigendum	EN 1993-1-8:2005/AC:2009	Integrated, 2010/11
	AN Annexe nationale	NF EN 1993-1-8/NA	Published, 2007/07
Part 1-9: Fatigue		NF EN 1993-1-9	Published, 2005/12
	C1 Corrigendum	EN 1993-1-9:2005/AC:2005	Integrated, 2006/11
	C2 Corrigendum	EN 1993-1-9:2005/AC:2009	Integrated, 2011/03
	AN Annexe nationale	NF EN 1993-1-9/NA	Published, 2007/04
Part 1-10: Material toughness and through-thickness		NF EN 1993-1-10	Published, 2005/12
	C1 Corrigendum	EN 1993-1-10:2005/AC:2005	Integrated, 2006/11
	C2 Corrigendum	EN 1993-1-10:2005/AC:2009	Integrated, 2009/08
	AN Annexe nationale	NF EN 1993-1-10/NA	Published, 2007/04
Part 1-11: Design of structures with tension components		NF EN 1993-1-11	Published, 2007/04
	C1 Corrigendum	EN 1993-1-11:2006/AC:2009	Integrated, 2009/11
	AN Annexe nationale	NF EN 1993-1-11/NA	Published, 2007/12
Part 1-12: Additional rules for the extension of EN 1993 up to steel grades S 700		NF EN 1993-1-12	Published, 2007/08
	C1 Corrigendum	EN 1993-1-12:2007/AC:2009	Integrated, 2010/01
	AN Annexe nationale	NF EN 1993-1-12/NA	Published, 2008/08
Part 2: Steel bridges		NF EN 1993-2	Published, 2007/03
	C1 Corrigendum	EN 1993-2:2006/AC:2009	Intégrée, 2010/09
	AN Annexe nationale	NF EN 1993-2/NA	Published, 2007/12



Eurocode 3 - Design of steel structures (end)

Title		Reference	Status
Part 3-1: Towers, masts and chimneys - Towers and masts		NF EN 1993-3-1	Published, 2007/03
C1	Corrigendum	EN 1993-3-1:2006/AC:2009	Integrated, 2010/10
AN	Annexe nationale	NF EN 1993-3-1/NA	Published, 2008/07
Part 3-2: Towers, masts and chimneys - Chimneys		NF EN 1993-3-2	Published, 2007/04
AN	Annexe nationale	NF EN 1993-3-2/NA	Published, 2008/07
Part 4-1: Silos		NF EN 1993-4-1	Published, 2007/11
C1	Corrigendum	EN 1993-4-1:2007/AC:2009	Integrated, 2009/10
AN	Annexe nationale	NF EN 1993-4-1/NA	Published, 2010/09
Part 4-2: Tanks		NF EN 1993-4-2	Published, 2007/07
C1	Corrigendum	EN 1993-4-2:2007/AC:2009	Integrated, 2010/07
Part 4-3: Pipelines		NF EN 1993-4-3	Published, 2007/07
C1	Corrigendum	EN 1993-4-3:2007/AC:2009	Integrated, 2010/09
Part 5: Pileings		NF EN 1993-5	Published, 2007/08
C1	Corrigendum	EN 1993-5:2007/AC:2009	Published, 2011/12
AN	Annexe nationale	NF EN 1993-5/NA	Published, 2008/08
Part 6: Crane supporting structures		NF EN 1993-6	Published, 2007/09
C1	Corrigendum	EN 1993-6:2007/AC:2009	Integrated, 2010/09
AN	Annexe nationale	NF EN 1993-6/NA	Published, 2011/12



Eurocode 4 - Design of composite steel and concrete structures

Title		Reference	Status
Part 1-1: General rules and rules for buildings		NF EN 1994-1-1	Published, 2005/06
C1	Corrigendum	EN 1994-1-1:2004/AC:2009	Integrated, 2010/01
AN	Annexe nationale	NF EN 1994-1-1/NA	Published, 2007/04
Part 1-2: General rules - Structural fire design		NF EN 1994-1-2	Published, 2006/02
C1	Corrigendum	EN 1994-1-2:2005/AC:2008	Integrated, 2009/02
AN	Annexe nationale	NF EN 1994-1-2/NA	Published, 2007/10
Part 2: General rules and rules for bridges		NF EN 1994-2	Published, 2006/02
C1	Corrigendum	EN 1994-2:2005/AC:2008	Integrated, 2009/01
AN	Annexe nationale	NF EN 1994-2/NA	Published, 2007/05

Eurocode 5 - Design of timber structures

Title		Reference	Status
Part 1-1: General rules and rules for buildings		NF EN 1995-1-1	Published, 2005/11
A1	Amendment	NF EN 1995-1-1/A1:2008	Published, 2008/10
C1	Corrigendum	EN 1995-1-1:2004/AC:2006	Integrated, 2006/09
AN	Annexe nationale	NF EN 1995-1-1/NA	Withdrawn after publication of the 2010 version
AN	Annexe nationale (révision, prise en compte amendement A1)	NF EN 1995-1-1/NA	Published, 2010/05
Part 1-2: General rules - Structural fire design		NF EN 1995-1-2	Published, 2005/09
C1	Corrigendum	EN 1995-1-2:2004/AC:2006	Integrated, 2006/09
C2	Corrigendum	EN 1995-1-2:2004/AC:2009	Integrated, 2009/10
AN	Annexe nationale	NF EN 1995-1-2/NA	Published, 2007/04
Partie 2: Bridges		NF EN 1995-2	Published, 2005/03
AN	Annexe nationale	NF EN 1995-2/NA	Published, 2007/04



Eurocode 6 - Design of masonry structures

Title		Reference	Status
Partie 1-1: General rules for buildings - Rules for reinforced and unreinforced masonry		NF EN 1996-1-1	Published, 2006/03
A1	Amendment	EN 1996-1-1:2005/prA1	Public enquiry closed (2011-01-20)
C1	Corrigendum	EN 1996-1-1:2005/AC:2009	In progress
AN	Annexe nationale	NF EN 1996-1-1/NA	Publiée, 2009/12
Part 1-2: General rules - Structural fire design		NF EN 1996-1-2	Publiée, 2006/09
C1	Corrigendum	EN 1996-1-2:2005/AC:2010	Integrated, 2011/03
AN	Annexe nationale	NF EN 1996-1-2/NA	Published, 2008/09
Part 2: Considerations, selection of materials and execution of masonry		NF EN 1996-2	Published, 2006/06
C1	Corrigendum	EN 1996-2:2006/AC:2009	Integrated, 2010/02
AN	Annexe nationale	NF EN 1996-2/NA	Published, 2007/12
Partie 3: Simplified calculation methods for unreinforced masonry structures		NF EN 1996-3	Published, 2006/06
C1	Corrigendum	EN 1996-3:2006/AC:2009	In progress
AN	Annexe nationale	NF EN 1996-3/NA	Published, 2009/12

Eurocode 7 - Geotechnical design

Title		Reference	Status
Part 1: General rules		NF EN 1997-1	Published, 2005/06
C1	Corrigendum	EN 1997-1:2004/AC:2009	Integrated, 2011/08
AN	Annexe nationale	NF EN 1997-1/NA	Published, 2006/09
Part 2: Ground investigation and testing		NF EN 1997-2	Published, 2007/09
C1	Corrigendum	EN 1997-2:2007/AC:2010	Integrated, 2010/10



Eurocode 8 - Earthquake resistance design of structures

Title			Reference	Status
Part 1: General rules, seismic actions and rules for buildings			NF EN 1998-1	Published, 2005/09
	C1	Corrigendum	EN 1998-1:2004/AC:2009	Integrated, 2010/10
	A1	Amendment	prNF EN 1998-1/A1	Public enquiry soon to be launched
	AN	Annexe nationale	NF EN 1998-1/NA	Published, 2007/12
Part 2: Bridges			NF EN 1998-2	Published, 2006/12
	A1	Amendment	prNF EN 1998-2:2005/A1	Validation of French version in progress
	A2	Amendment	prNF EN 1998-2:2005/A2	Validation of French version in progress
	C1	Corrigendum	EN 1998-2:2005/AC:2010	Integrated, 2010/02
	AN	Annexe nationale	NF EN 1998-2/NA	Published, 2007/10
Part 3: Assessment and retrofitting of buildings			NF EN 1998-3	Published, 2005/12
	C1	Corrigendum	EN 1998-3:2005/AC:2010	Intégrée, 2010/10
	AN	Annexe nationale	NF EN 1998-3/NA	Published, 2008/01
Part 4: Silos, tanks and pipelines			NF EN 1998-4	Published, 2007/03
	AN	Annexe nationale	NF EN 1998-4/NA	Published, 2008/01
Part 5: Foundations, retaining structures and geotechnical aspects			NF EN 1998-5	Published, 2005/09
	AN	Annexe nationale	NF EN 1998-5/NA	Published, 2007/10
Part 6: Towers, masts and chimneys			NF EN 1998-6	Published, 2005/12
	AN	Annexe nationale	NF EN 1998-6/NA	Published, 2007/10



Eurocode 9 - Design of aluminium structures

Title		Reference	Status
Part 1-1: General structural rules		NF EN 1999-1-1	Published, 2007/08
	A1 Amendment	NF EN 1999-1-1:2007/A1	Published, 2010/06
	C1 Corrigendum	EN 1999-1-1:2007/ptAC	Abandoned
Part 1-2: General rules - Structural fire design		NF EN 1999-1-2	Published, 2007/06
	C1 Corrigendum	EN 1999-1-2:2007/AC:2009	Integrated, 2009/11
Part 1-3: Structures susceptible to fatigue		NF EN 1999-1-3	Published, 2007/09
	A1 Amendment	NF EN 1999-1-3:2007/A1	Published, 2012/02
Part 1-4: Cold-formed structural sheeting		NF EN 1999-1-4	Published, 2007/06
	A1 Amendment	NF EN 1999-1-4:2007/A1	Published, 2011/10
	C1 Corrigendum	EN 1999-1-4:2007/AC:2009	Integrated, 2009/12
Part 1-5: Shell structures		EN 1999-1-5	Published, 2007/02
	C1 Corrigendum	EN 1999-1-5:2007/AC:2009	Published, 2009/11



**Thank you for
your attention**

