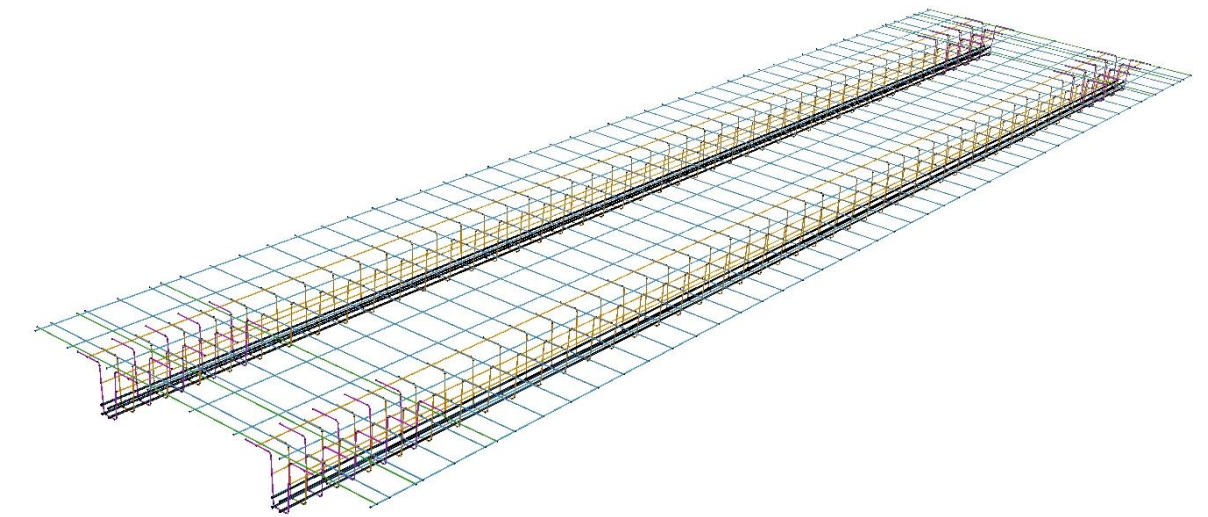
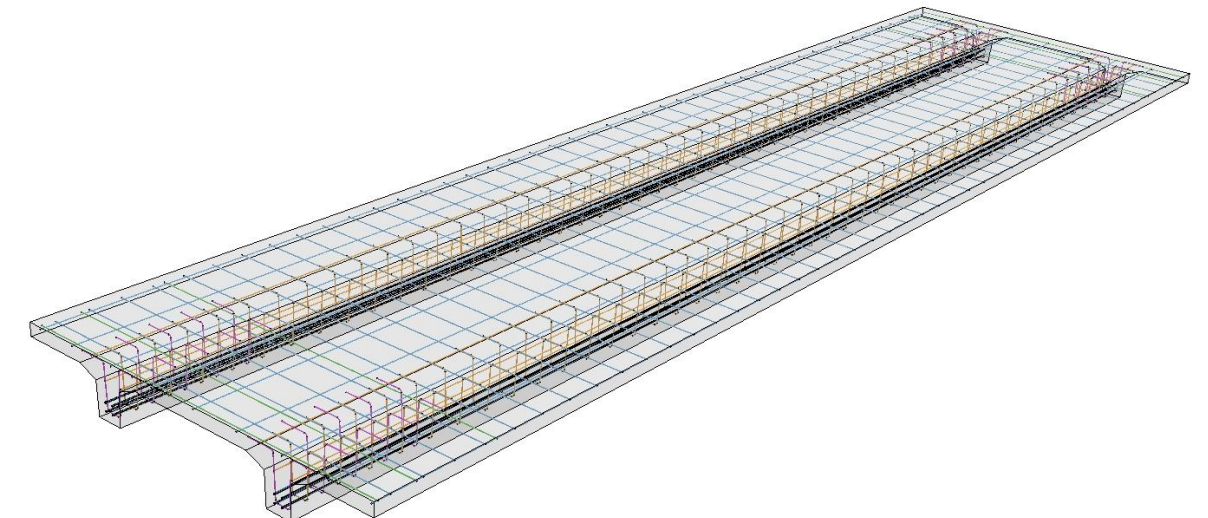
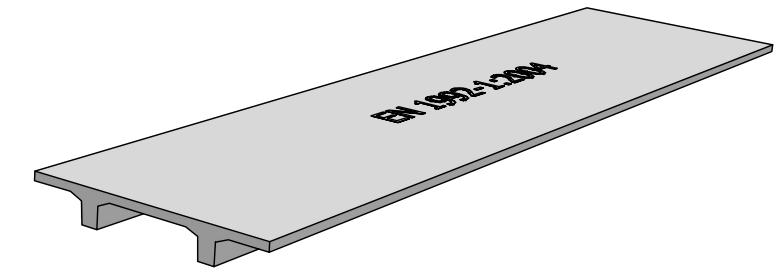


3D VIEW (1 : 75)

Thumbnail	Part Number	QTY	Mass	Total mass	Ø_	Ø_longitudinal	pattern_T	Ø_transverse	pattern_L
	11	4	208	832	6 mm				
	12	24	522	12528	6 mm				
	21	8	2026	16208	16 mm				
Total mass rebars [kg]			29,57	Incidence kg/m³		11,33			
	R1	2	41610	83220	6 mm	200 mm	6 mm	300 mm	
	R2	2	18683	37366	6 mm	200 mm	6 mm	190 mm	
Total mass welded-wire-meshes [kg]			120,59	Incidence kg/m³		46,20			
	ST half inche" L= 9030	8	6599	52792	12,7 mm				
Total mass strands [kg]			52,792	Incidence kg/m³		20,23			
Total mass of steel [kg]			202,95	Total concrete volume [m³]		2,61			

CODE	DESCRIPTION	VOLUME
TT001 CONCRETE	TT SLAB 001 CONCRETE	2,611 m³

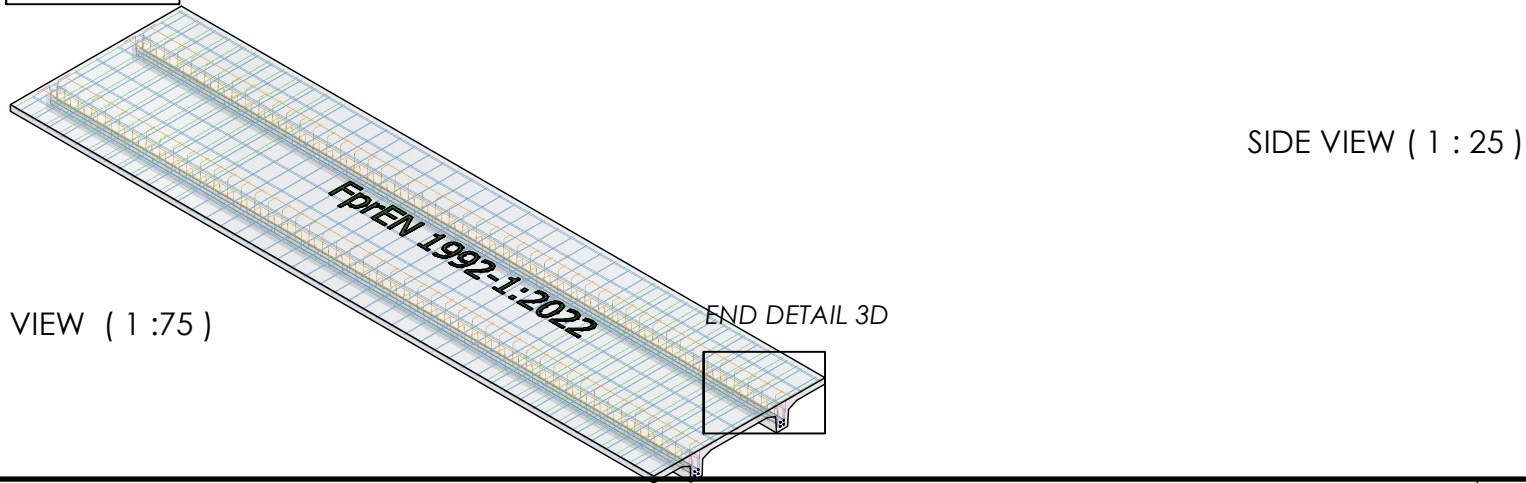
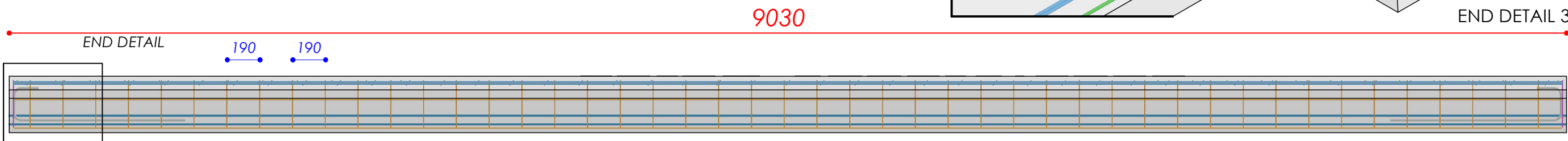
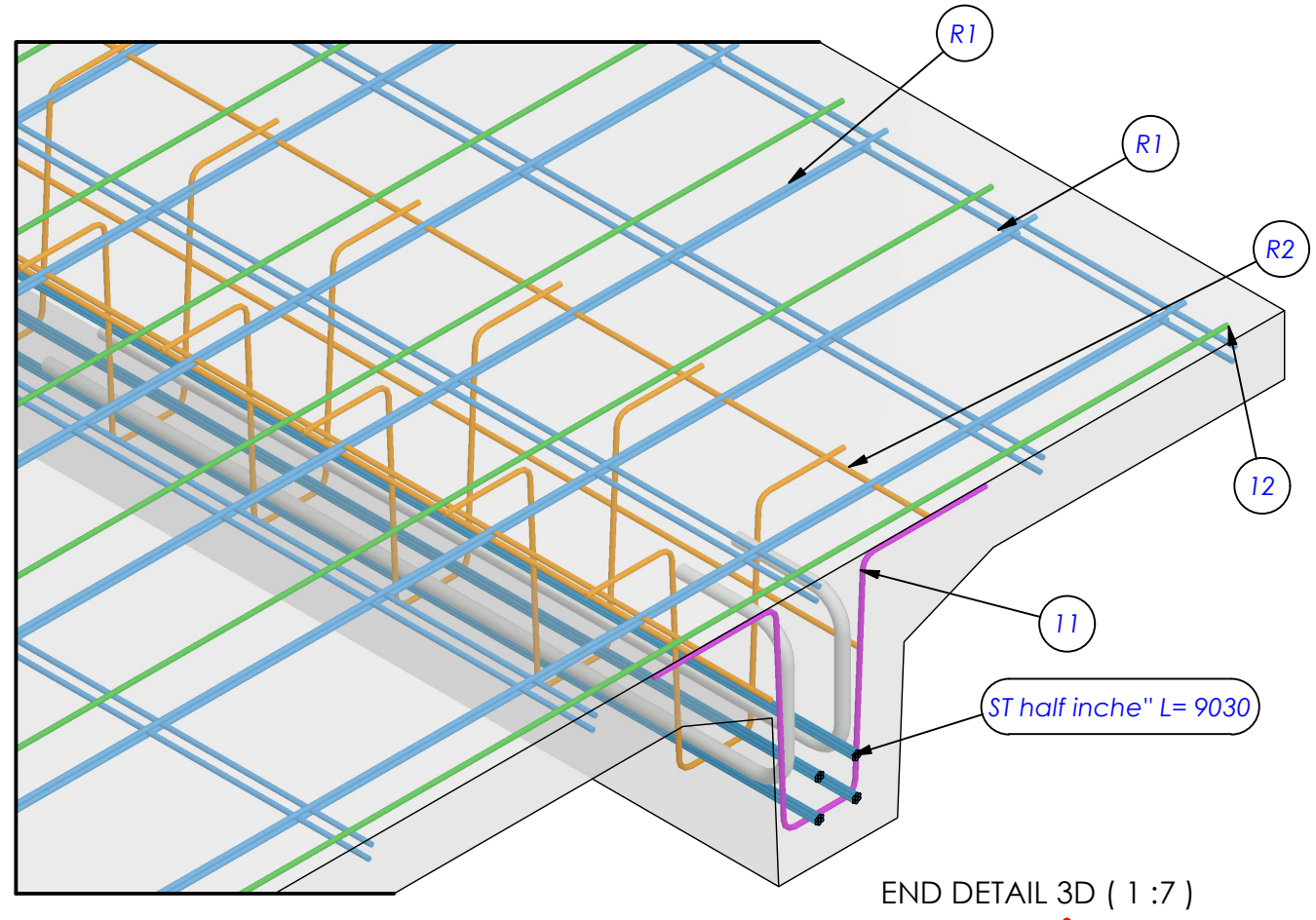
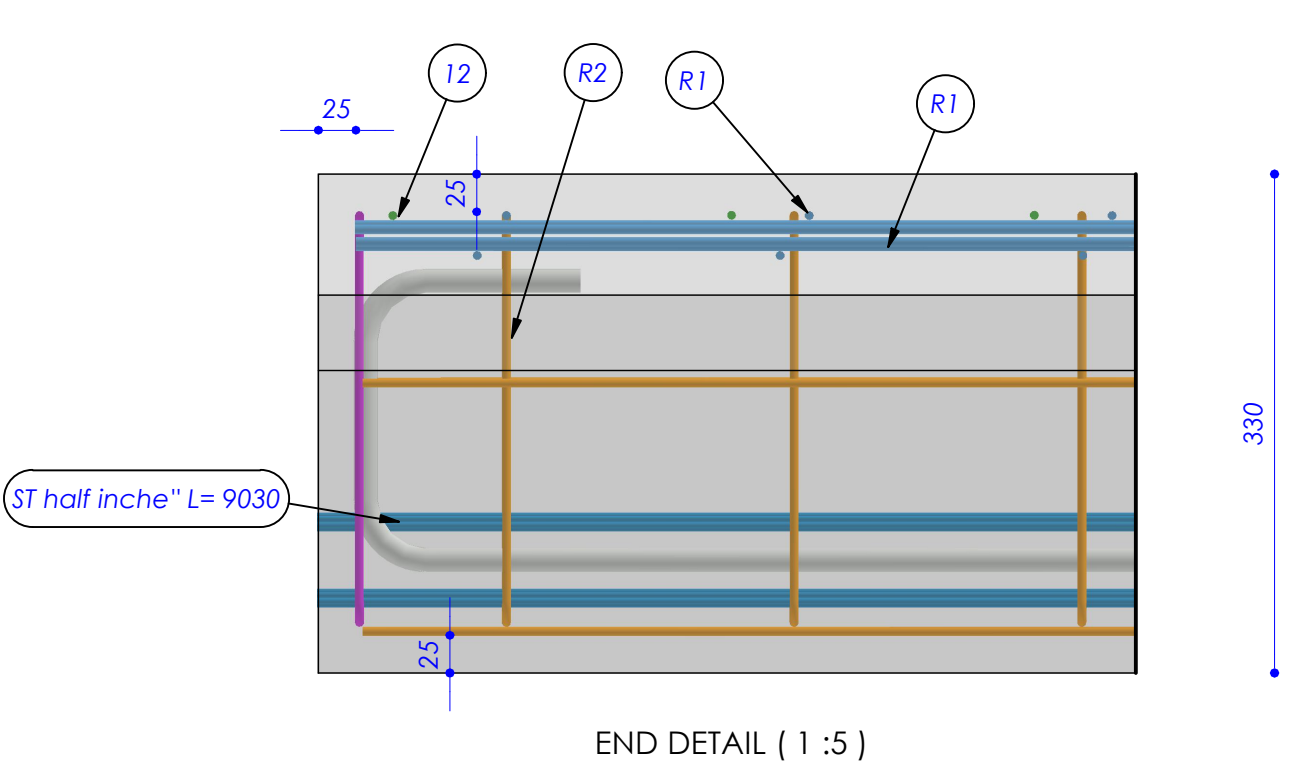
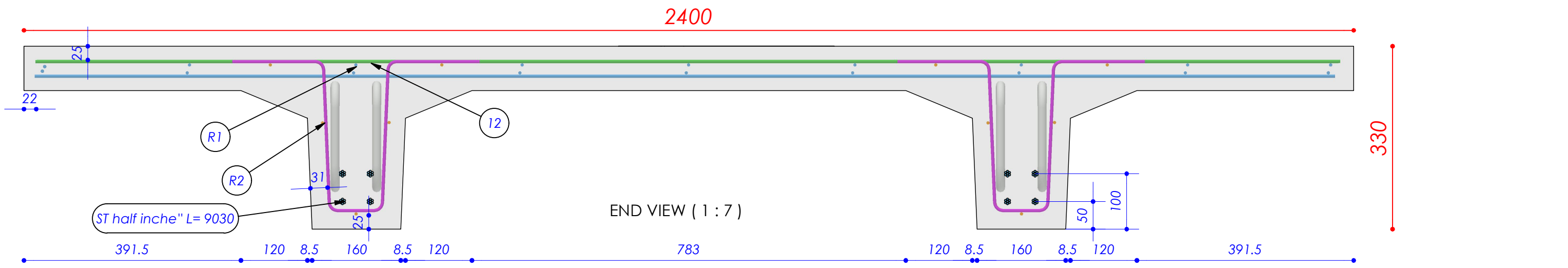








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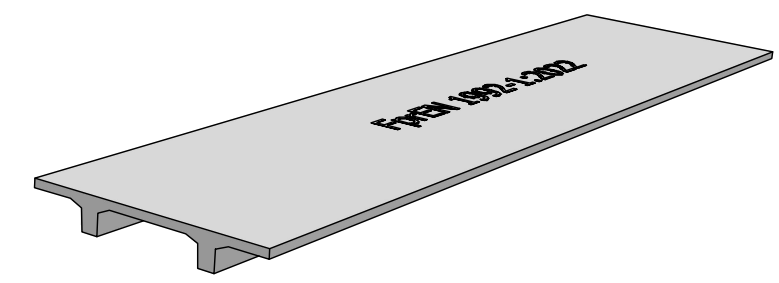
Code **TT SLAB EN 1992-1:2004**

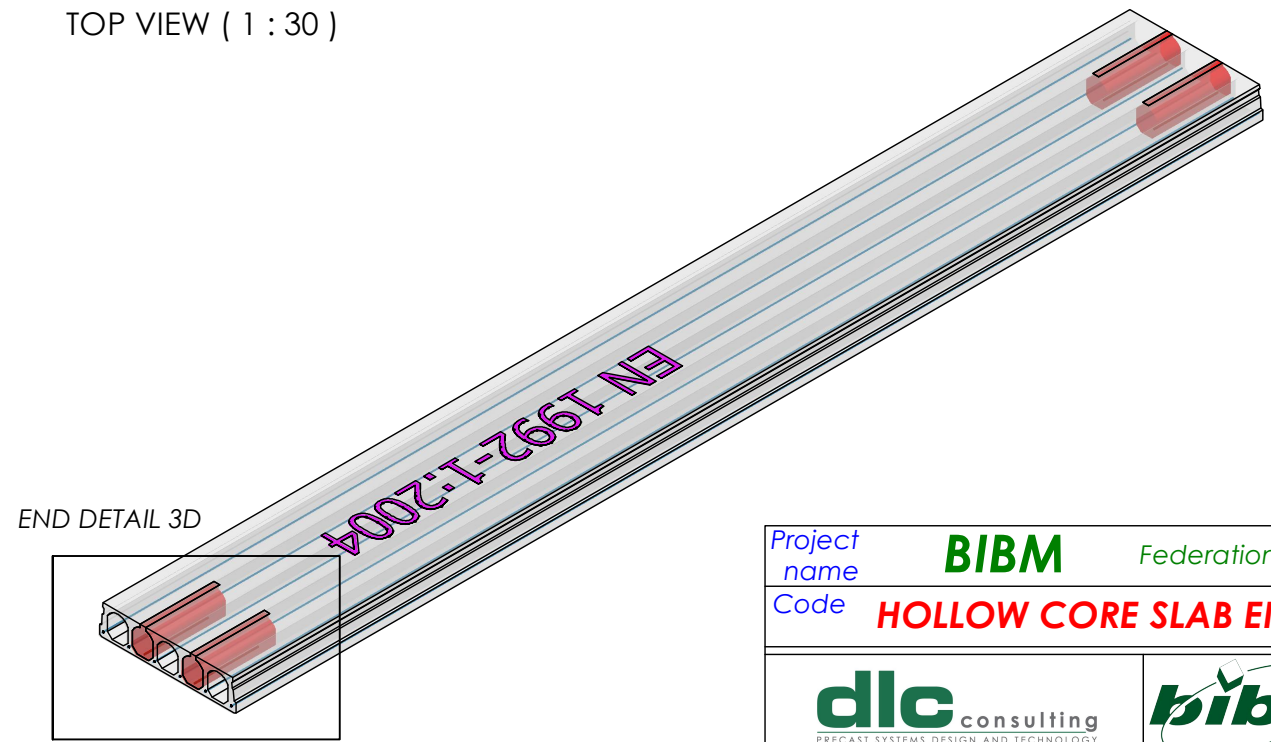
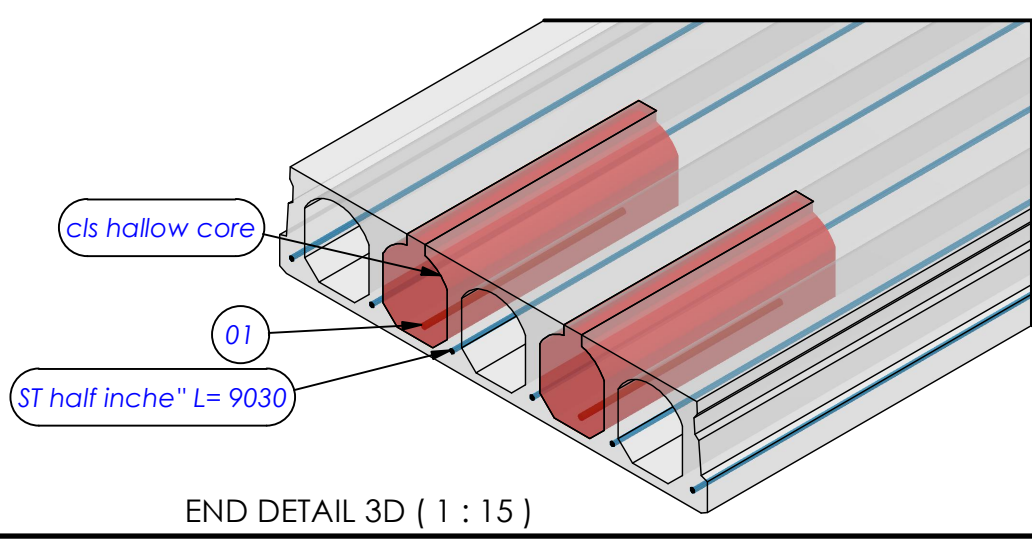
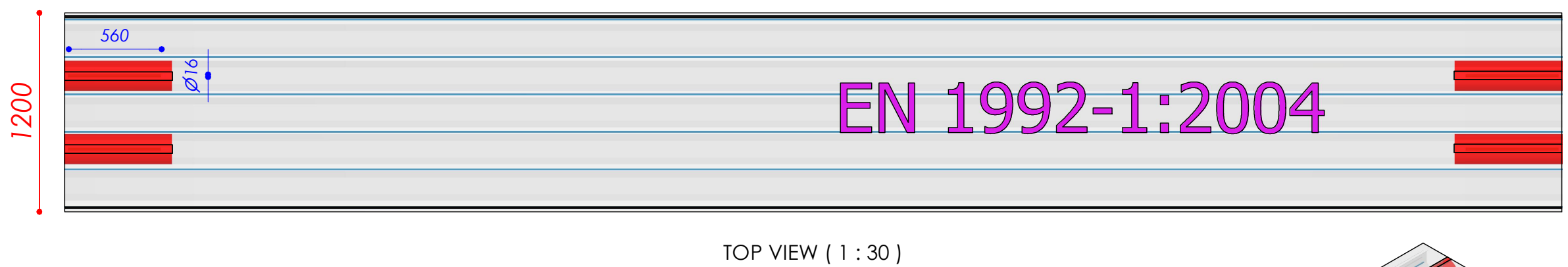
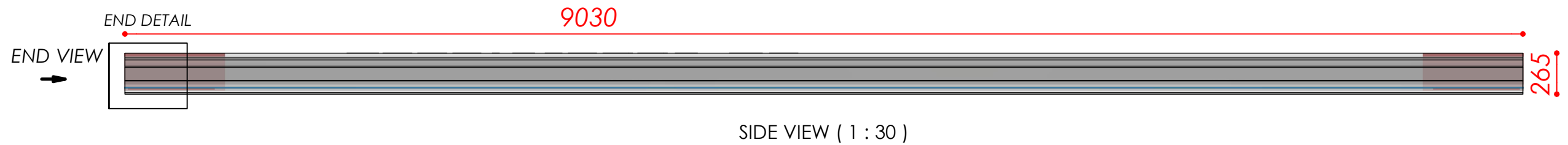
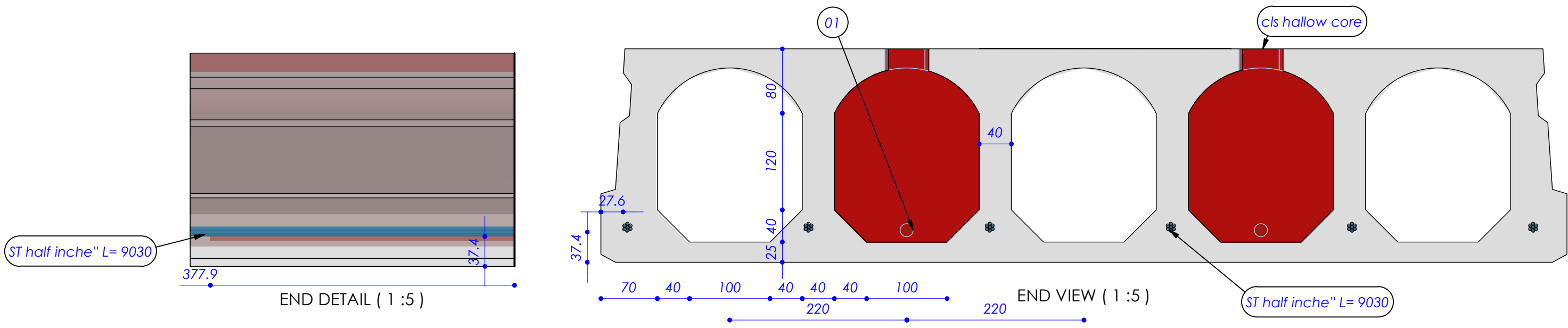




sheet number **2 of 2**

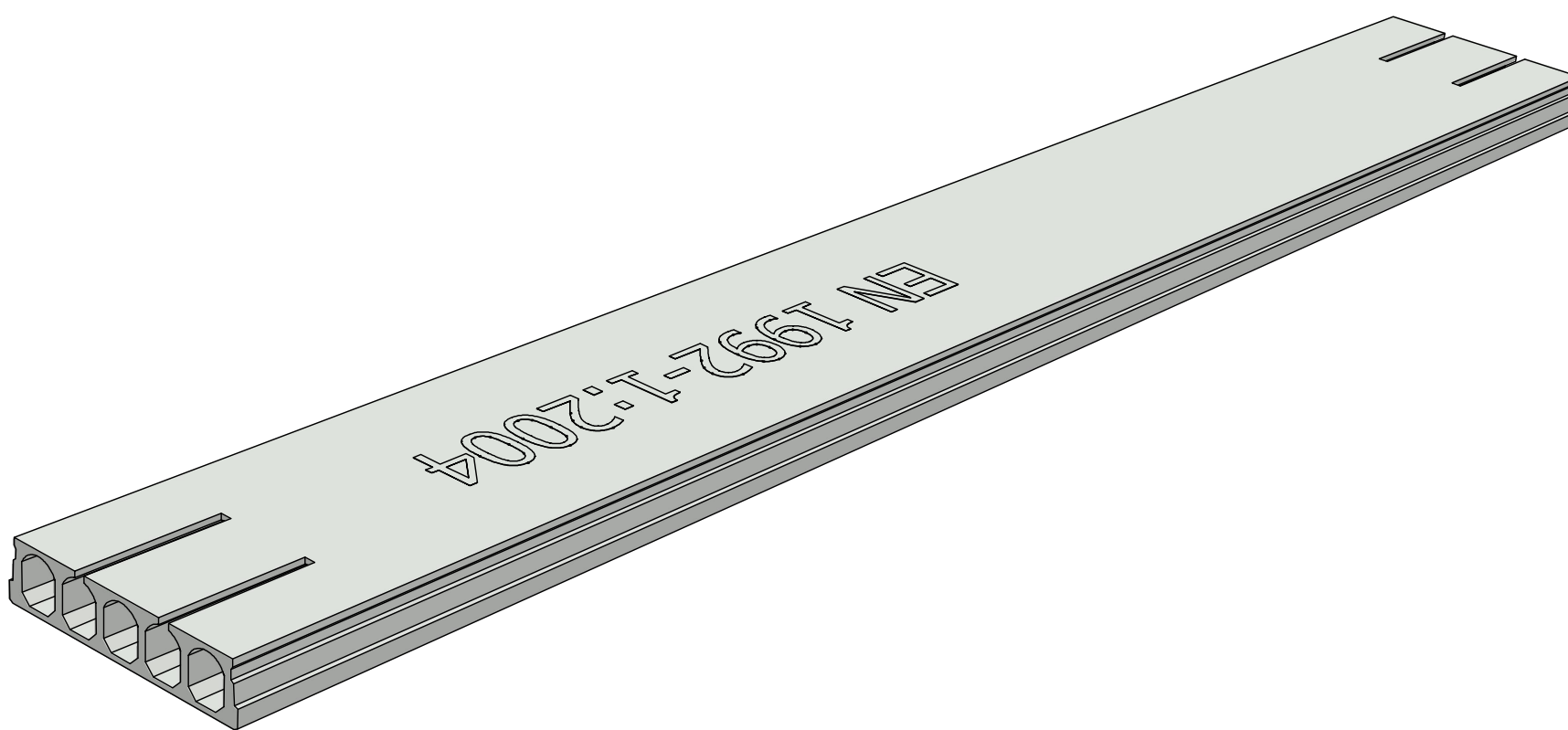


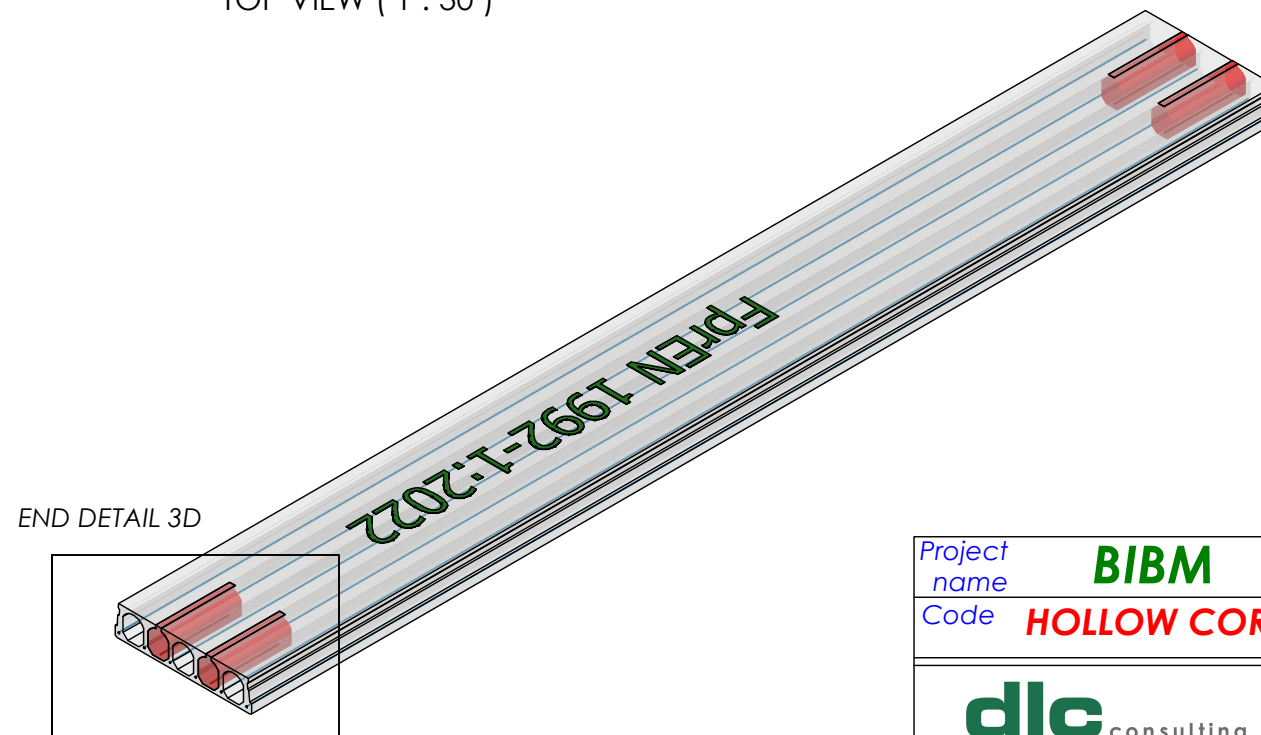
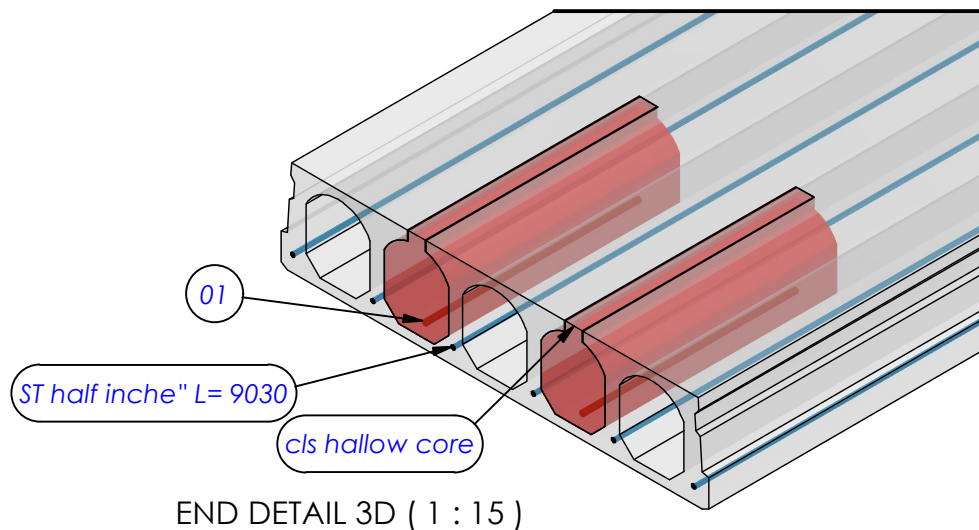
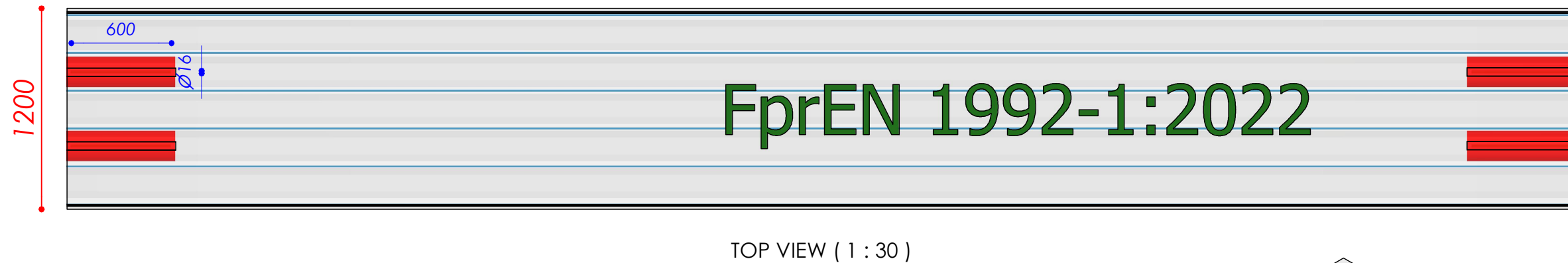
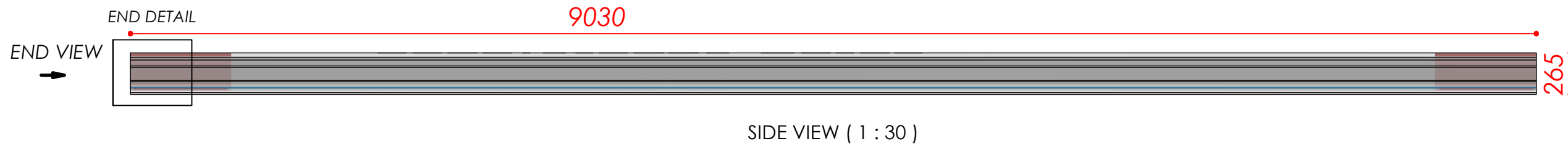
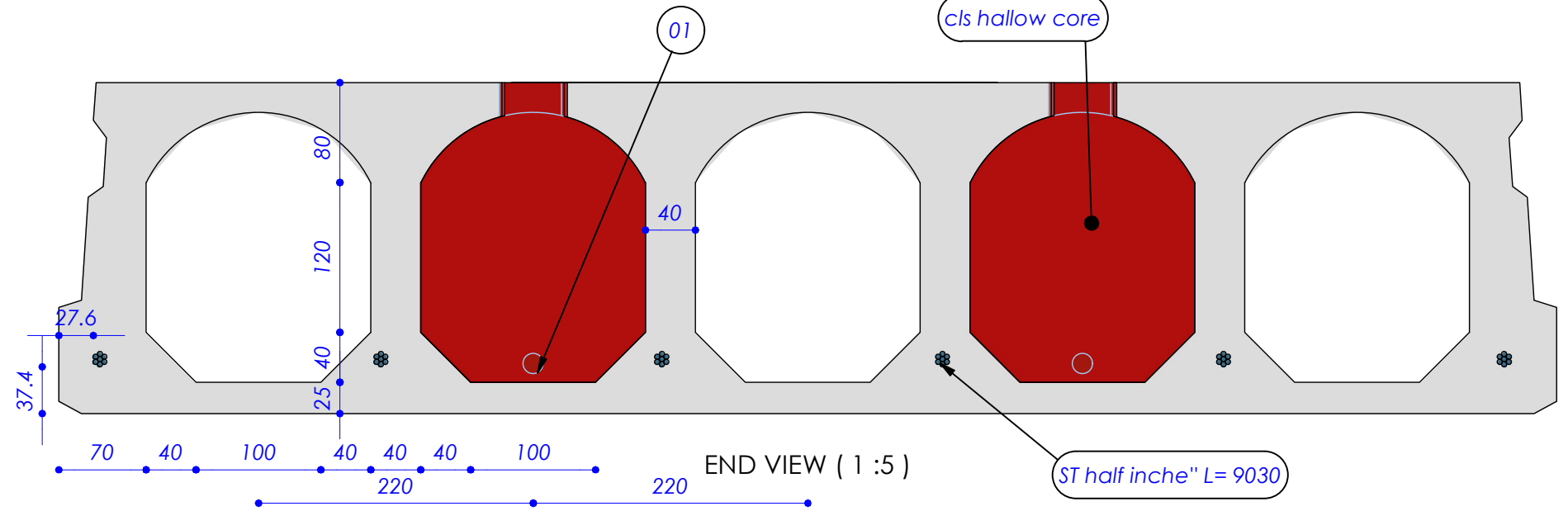
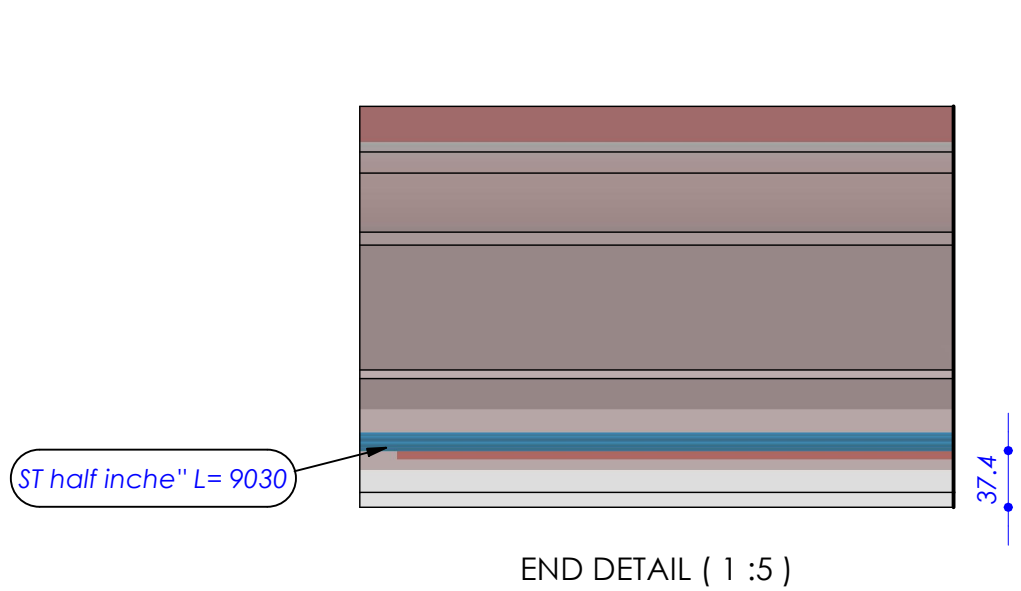
Thumbnail	Part Number	QTY	Mass	Total mass	Ø_	Ø_longitudinal	pattern_T	Ø_transverse	pattern_L	
	11	4	208	832	6 mm					
	12	24	522	12528	6 mm					
	21	8	2026	16208	16 mm					
Total mass rebars [kg]			29,57	Incidence kg/m³		11,33				
	R1	2	41610	83220		6 mm	200 mm	6 mm	300 mm	
	R2	2	18683	37366		6 mm	200 mm	6 mm	190 mm	
Total mass welded-wire-meshes [kg]			120,59	Incidence kg/m³		46,20				
	ST half inche" L= 9030	8	6599	52792	12,7 mm					
Total mass strands [kg]			52,792	Incidence kg/m³		20,23				
Total mass of steel [kg]			202,95	Total concrete volume [m³]		2,61				





Thumbnail	Part Number	QTY	Mass	Total mass	Ø_
	01	4	884	3536	16 mm
Total mass rebars [kg]			3,54	Incidence kg/m³	1,65
	ST half inche" L= 9030	6	6599	39594	12,7 mm
Total mass strands [kg]			39,594	Incidence kg/m³	18,47
Total mass of steel [kg]			43,13	Concrete volume [m³]	1,224
				Cast in situ [m³]	0,92
				Total concrete [m³]	2,144





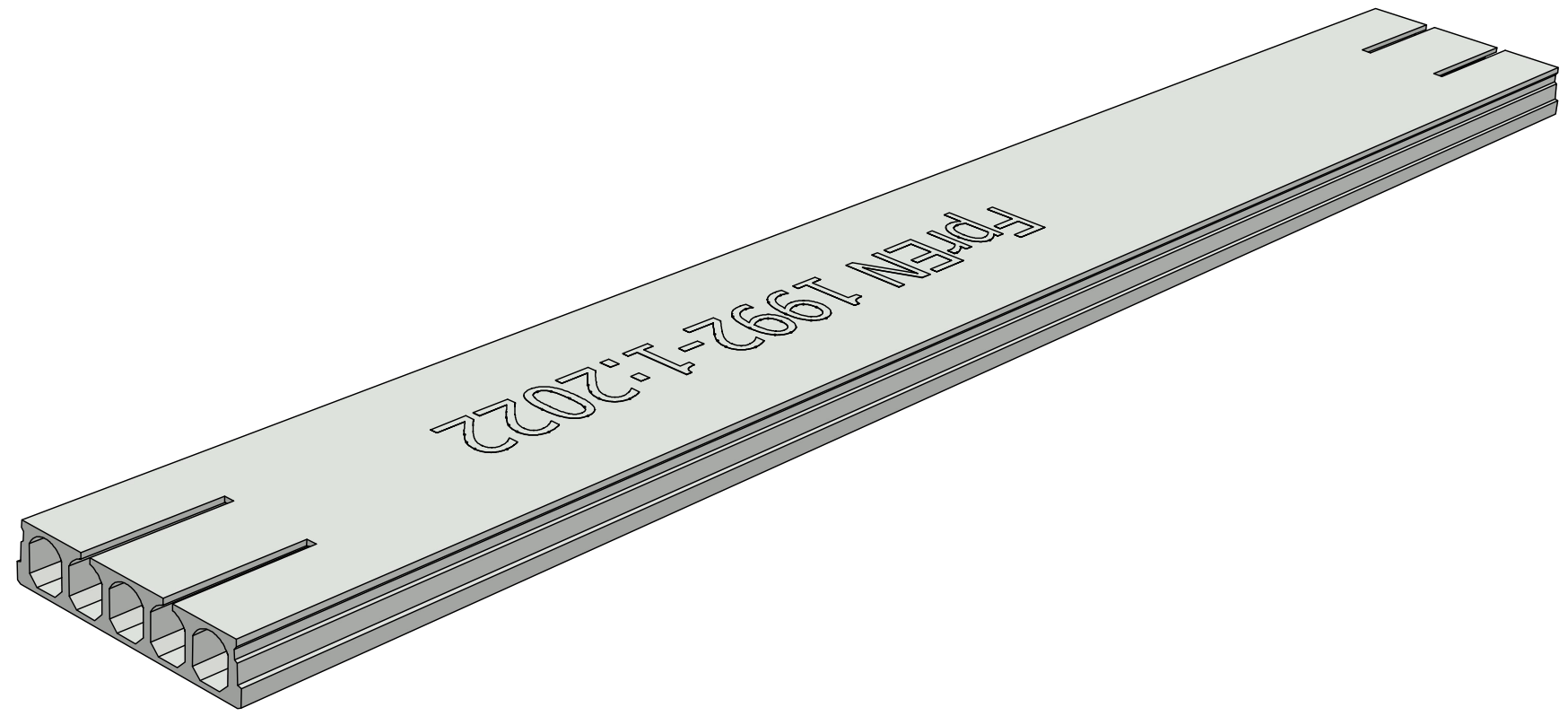


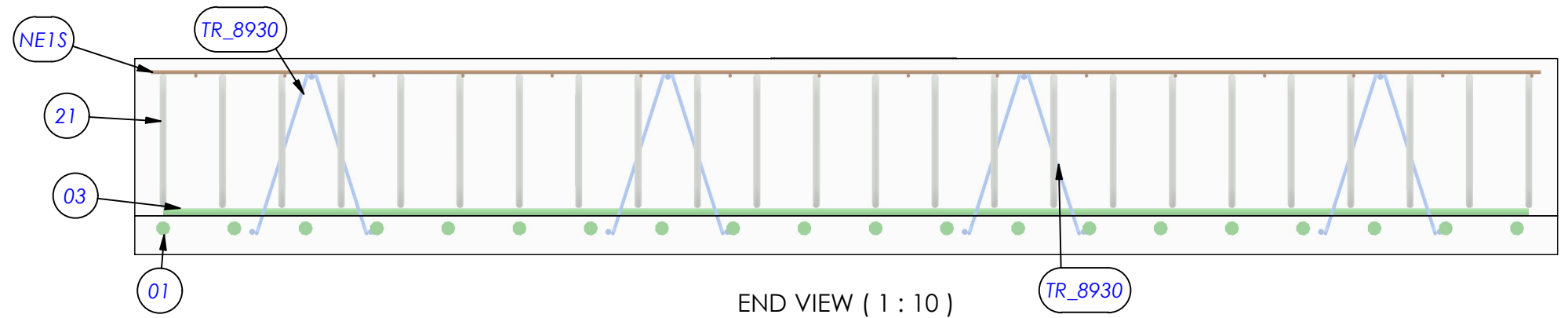
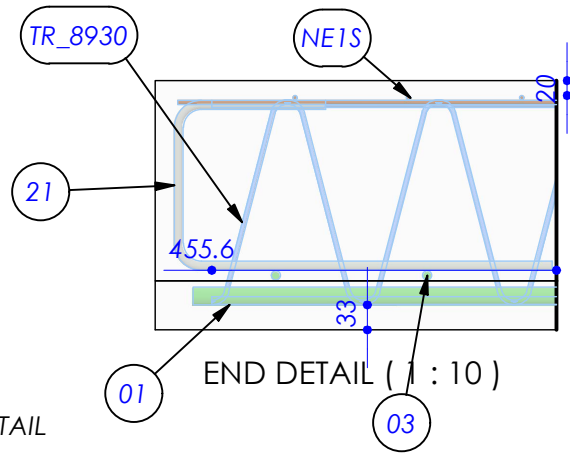
Project name **BIBM** Federation of the European Precast Concrete Industry
 Code **HOLLOW CORE SLAB FprEN 1992-1:2022**



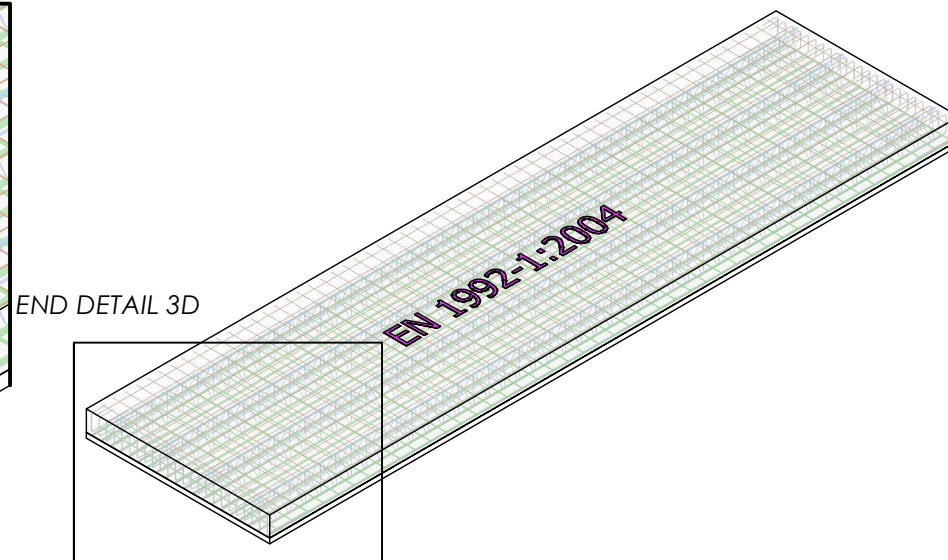
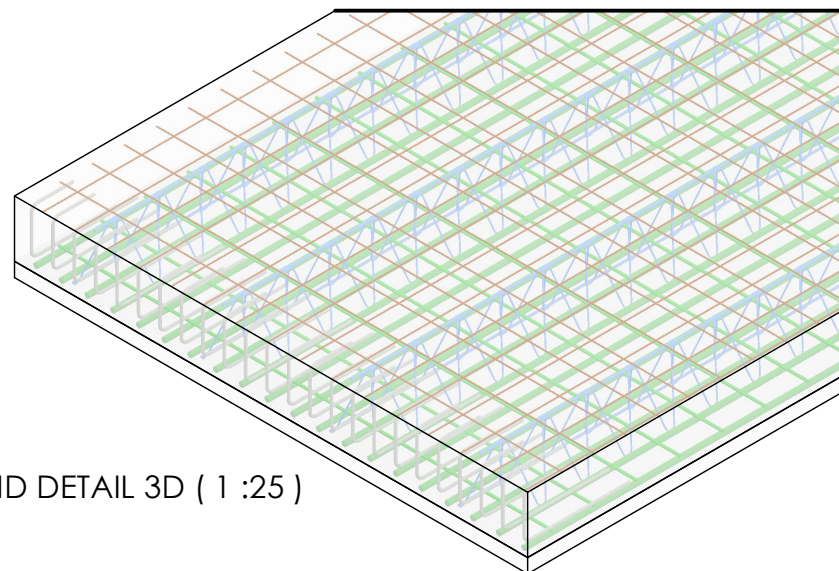
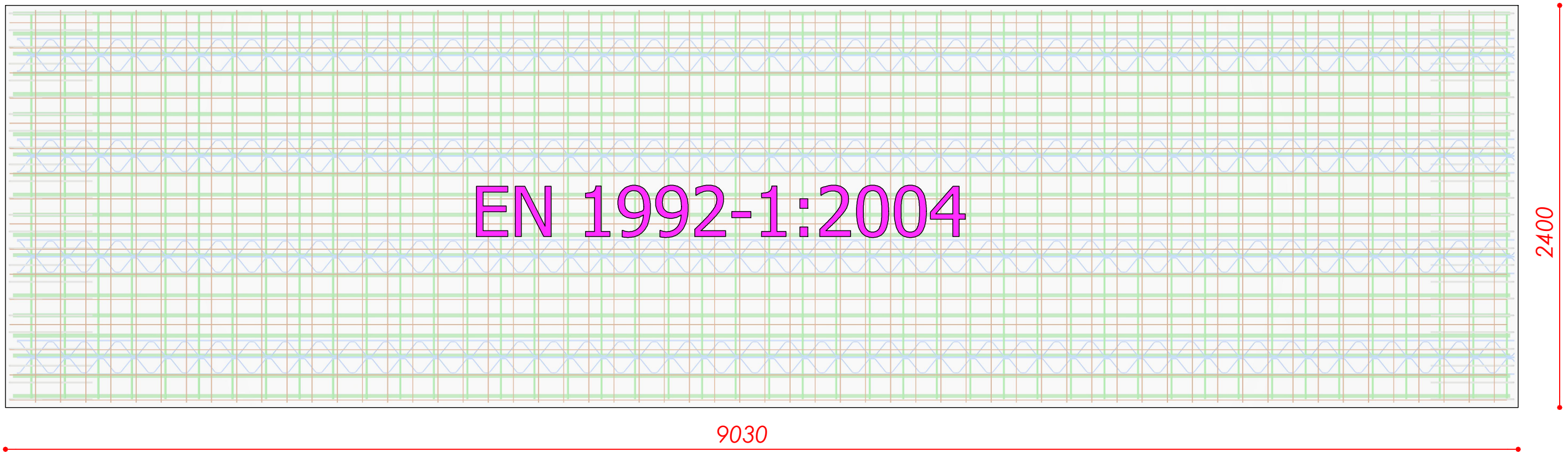
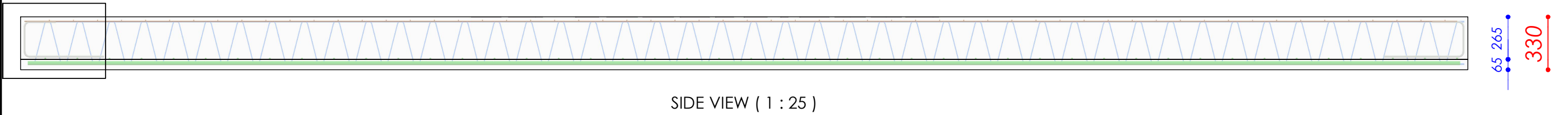
sheet number **1 of 2**

Thumbnail	Part Number	QTY	Mass	Total mass	Ø_
	01	4	947	3788	16 mm
Total mass rebars [kg]			3,79	Incidence kg/m³	1,77
	ST half inche" L= 9030	6	6599	39594	12,7 mm
Total mass strands [kg]			39,594	Incidence kg/m³	18,47
Total mass of steel [kg]			43,38	Concrete volume [m³]	1,224
				Cast in situ [m³]	0,92
				Total concrete [m³]	2,144





END DETAIL



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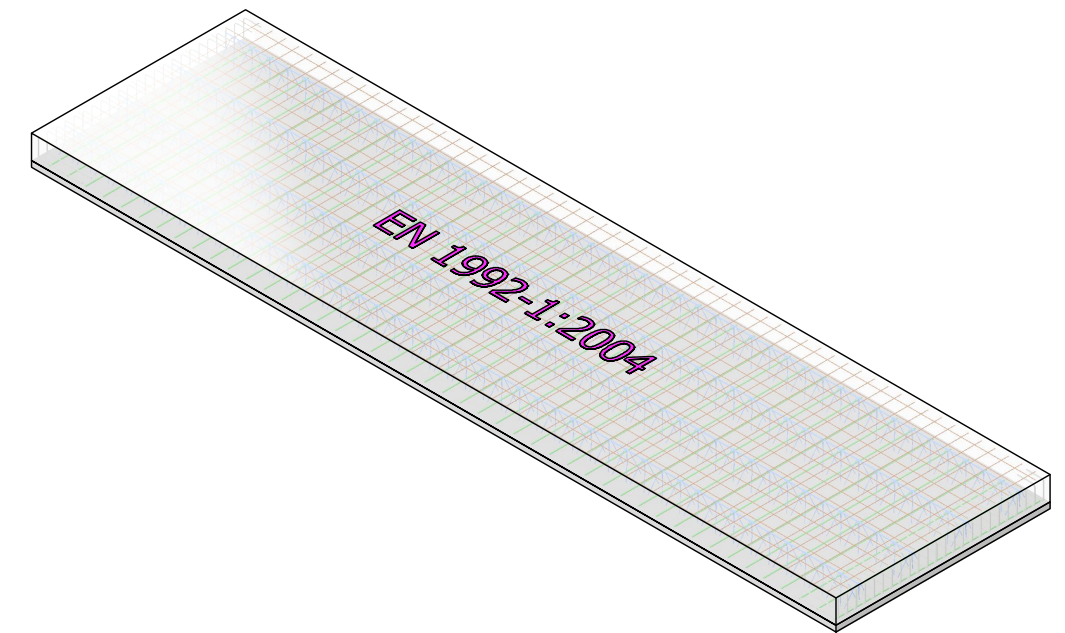
dlc consulting
 PRECAST SYSTEMS DESIGN AND TECHNOLOGY

bibm

AUTODESK
 INVENTOR

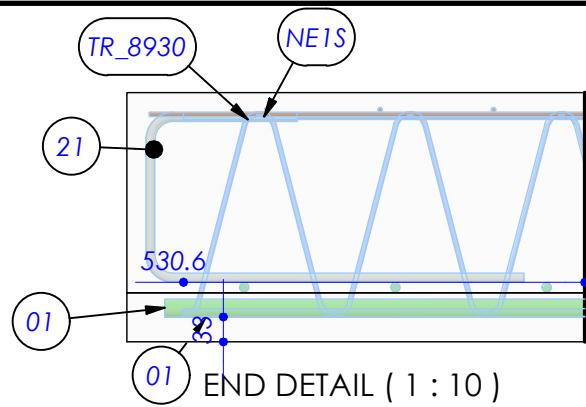
sheet number **1 of 2**

Thumbnail	Part Number	QTY	Mass	Total mass	Ø_	Ø_longitudinal	pattern_T	Ø_transverse	pattern_L
	01	20	31713	634260	24 mm				
	03	45	2042	91890	12 mm				
	21	48	777	37296	12 mm				
Total mass rebars [kg]			763,45	Incidence kg/m³		106,78			
	NEIS	1	62356	62356	6 mm	150 mm	6 mm	150 mm	
Total mass welded-wire-meshes [kg]			62,36	Incidence kg/m³		8,72			
	TR_8750	4	28743	114972					
Total mass strands [kg]			114,972	Incidence kg/m³		16,08			
Total mass of steel [kg]			940,77	Concrete volume [m³]		1,41			
				Cast in situ [m³]		5,74			
				Total concrete [m³]		7,15			

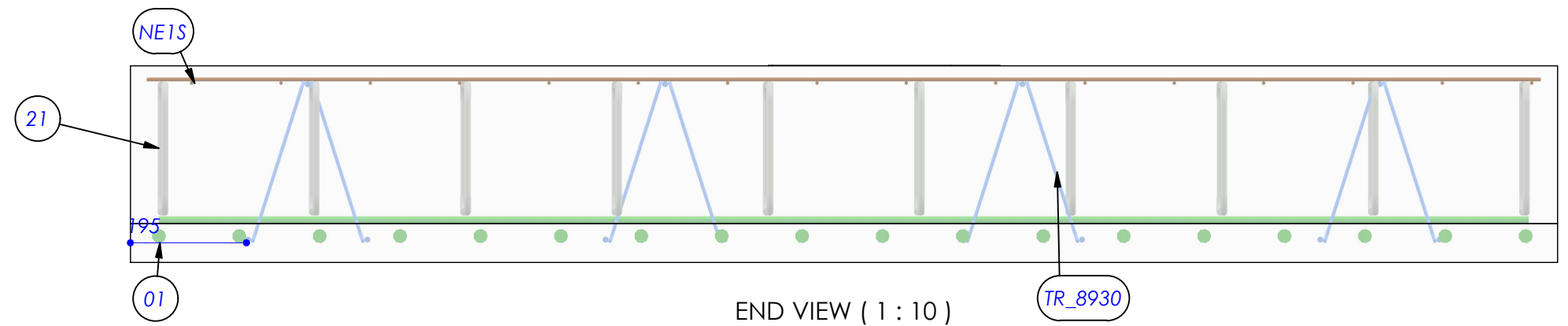


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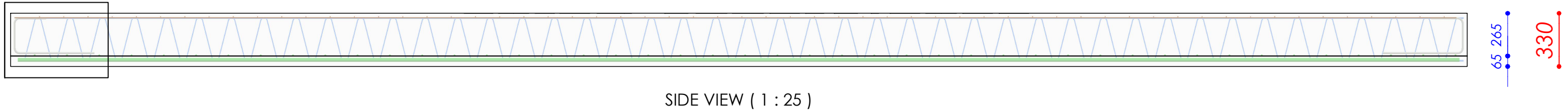
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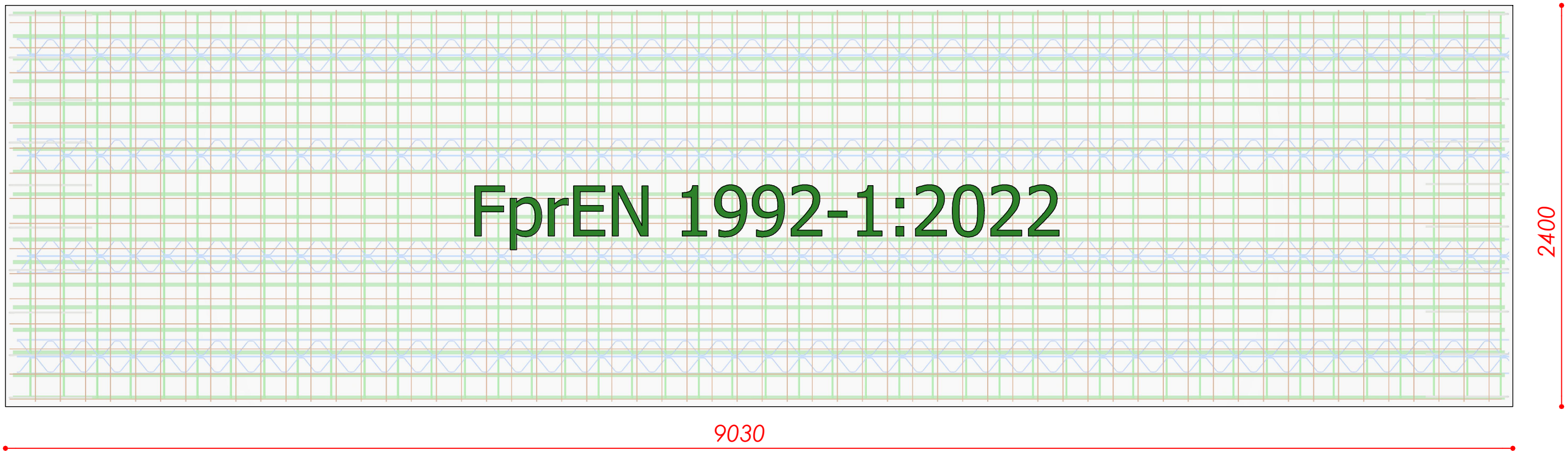
END DETAIL



END VIEW (1 : 10)

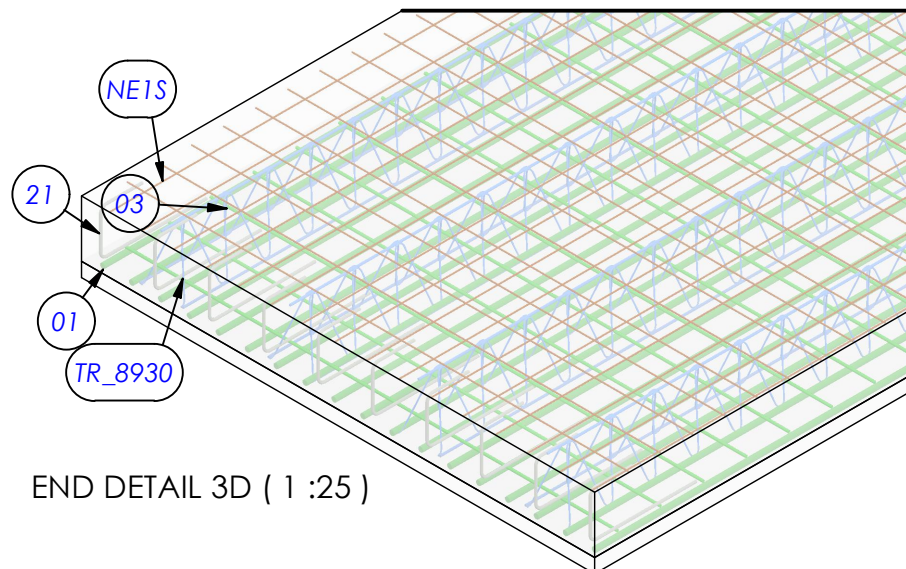


SIDE VIEW (1 : 25)

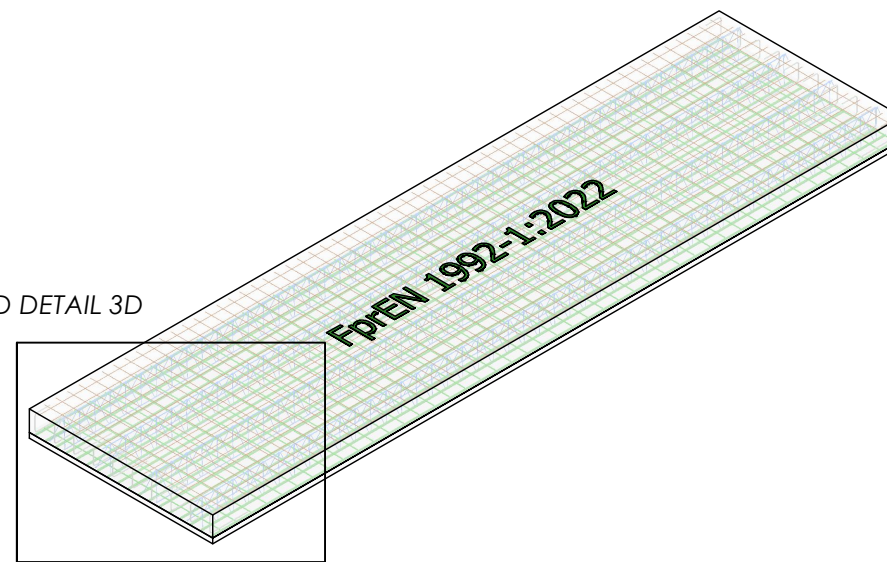


FprEN 1992-1:2022

TOP VIEW (1 : 25)



END DETAIL 3D

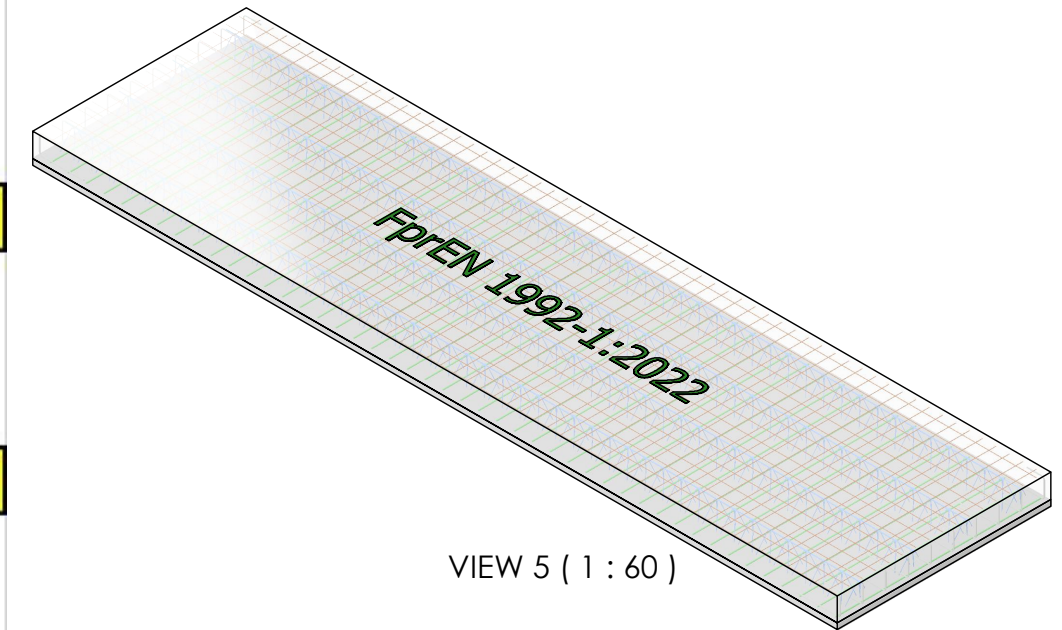


Project name	BIBM	Federation of the European Precast Concrete Industry
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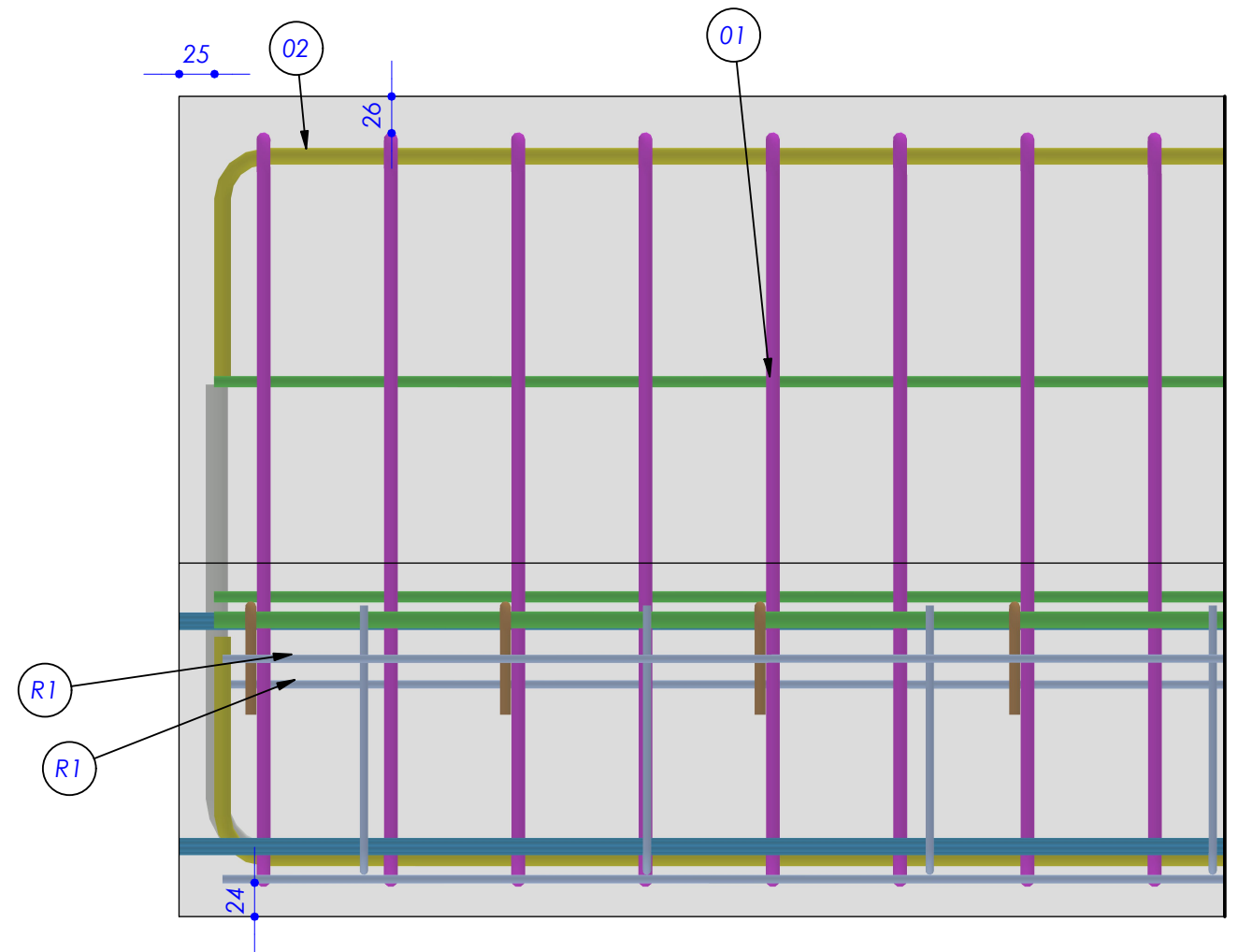
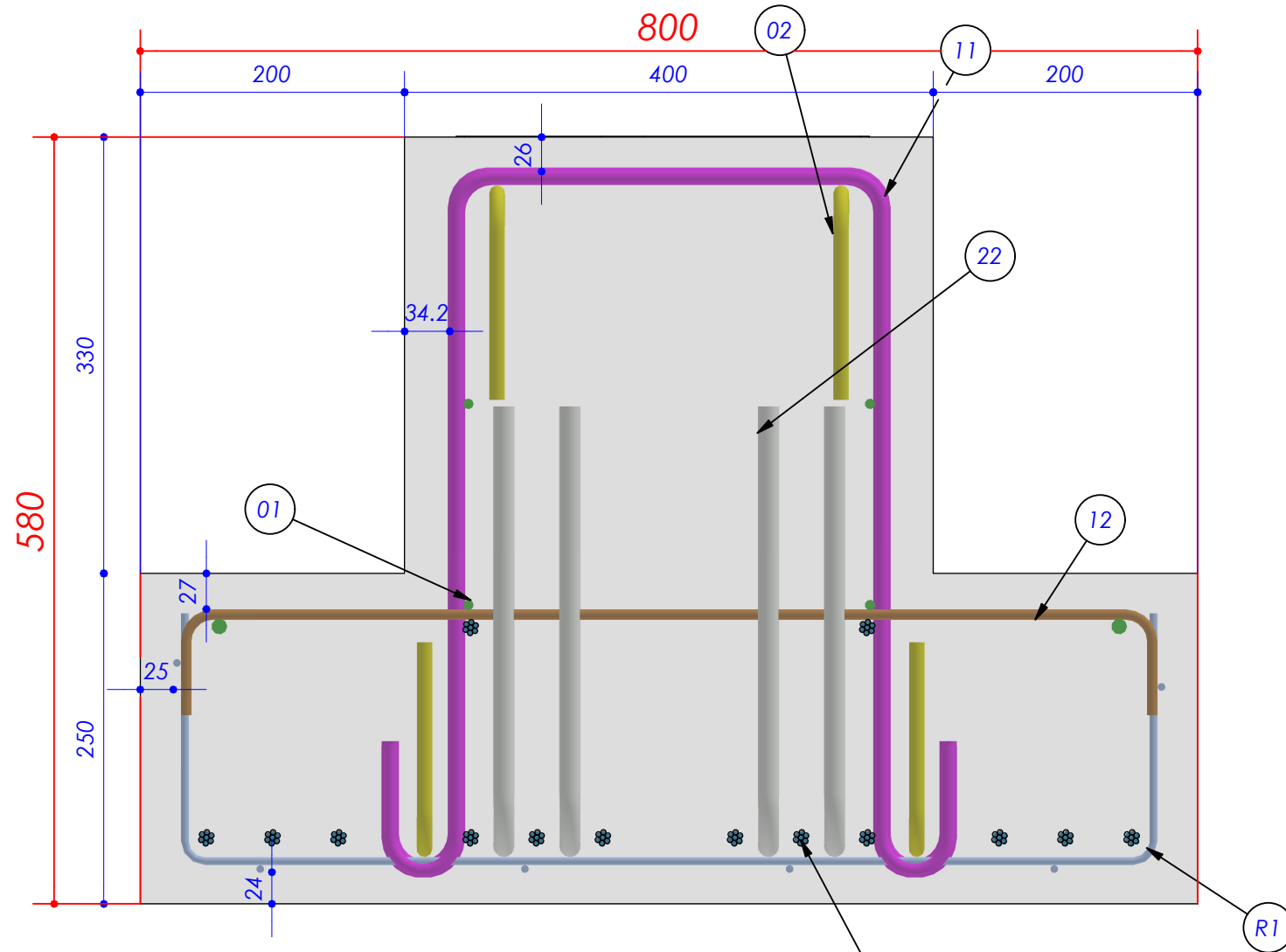
sheet number **1 of 2**

Thumbnail	Part Number	QTY	Mass	Total mass	Ø_			
	01	18	31713	570834	24 mm			
	03	43	2042	87806	12 mm			
	21	20	777	15540	12 mm			
Total mass rebars [kg]			674,18	Incidence kg/m³		94,29		
	NEIS	1	62356	62356				
Total mass welded-wire-meshes [kg]			62,36	Incidence kg/m³		8,72		
	TR_8750	4	28743	114972				
Total mass strands [kg]			114,972	Incidence kg/m³		16,08		
Total mass of steel [kg]			851,51	Total concrete volume [m³]		1,41		
				Total cast in situ [m³]		5,74		
				Total concrete [m³]		7,15		

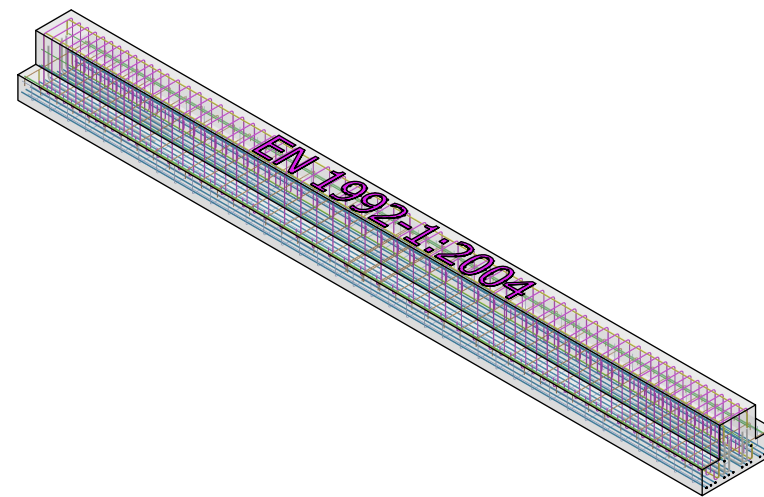
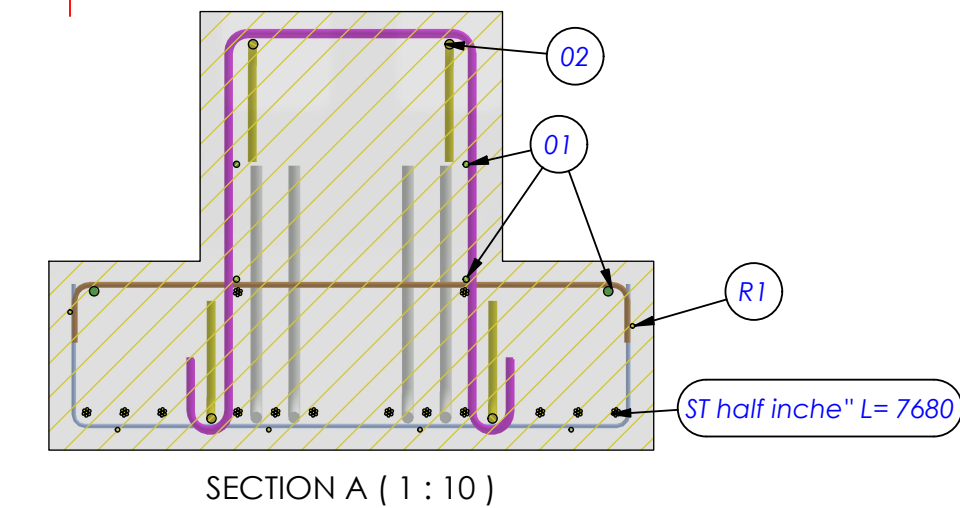
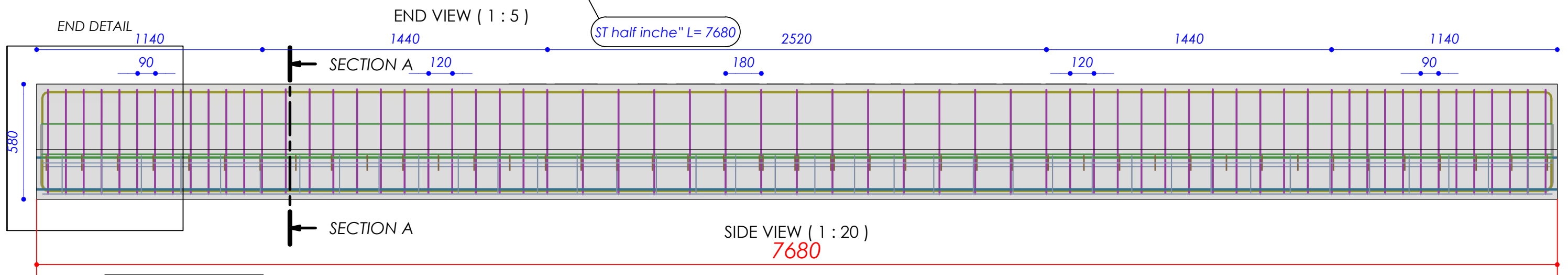


VIEW 5 (1 : 60)

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END DETAIL (1 : 5)



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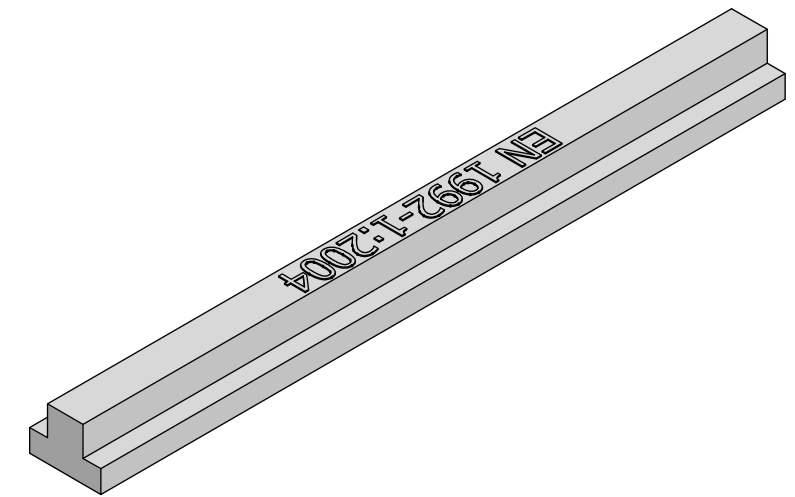
dlc consulting
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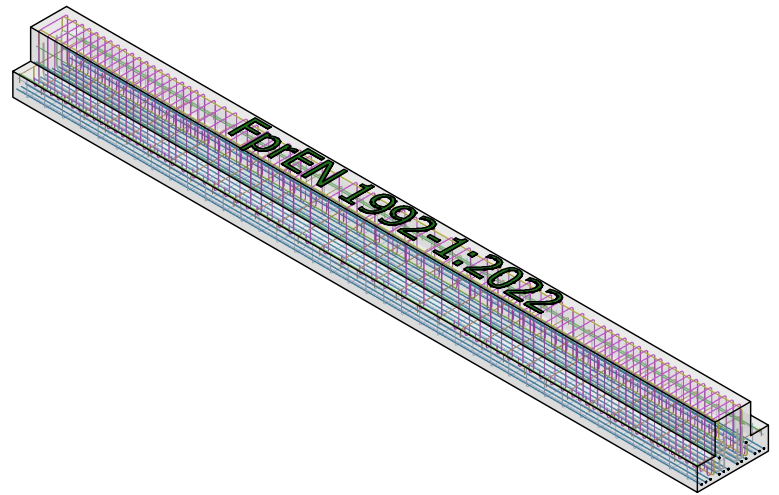
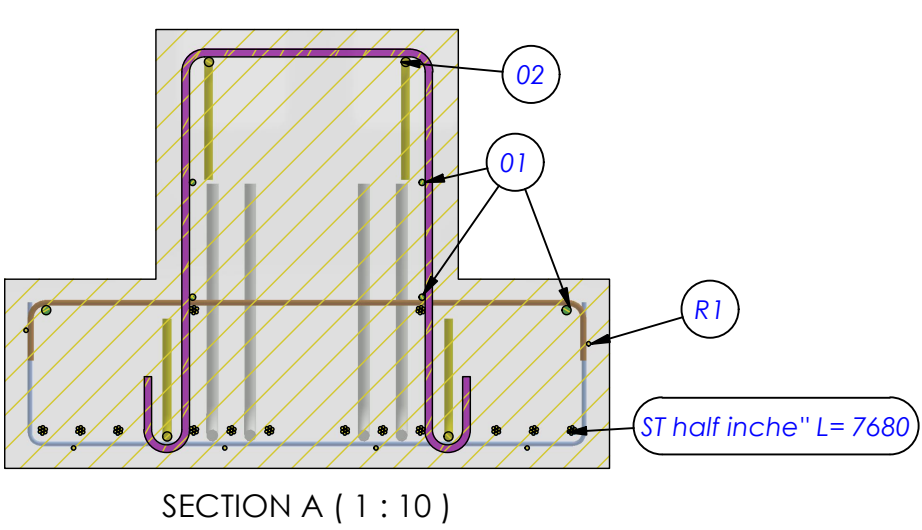
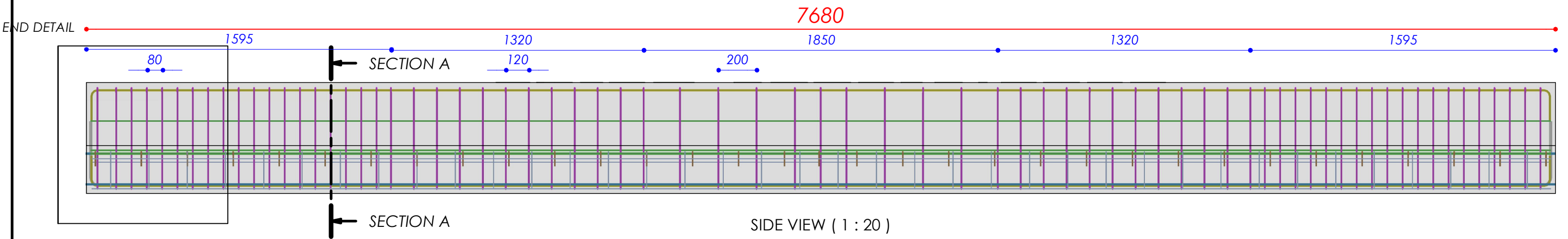
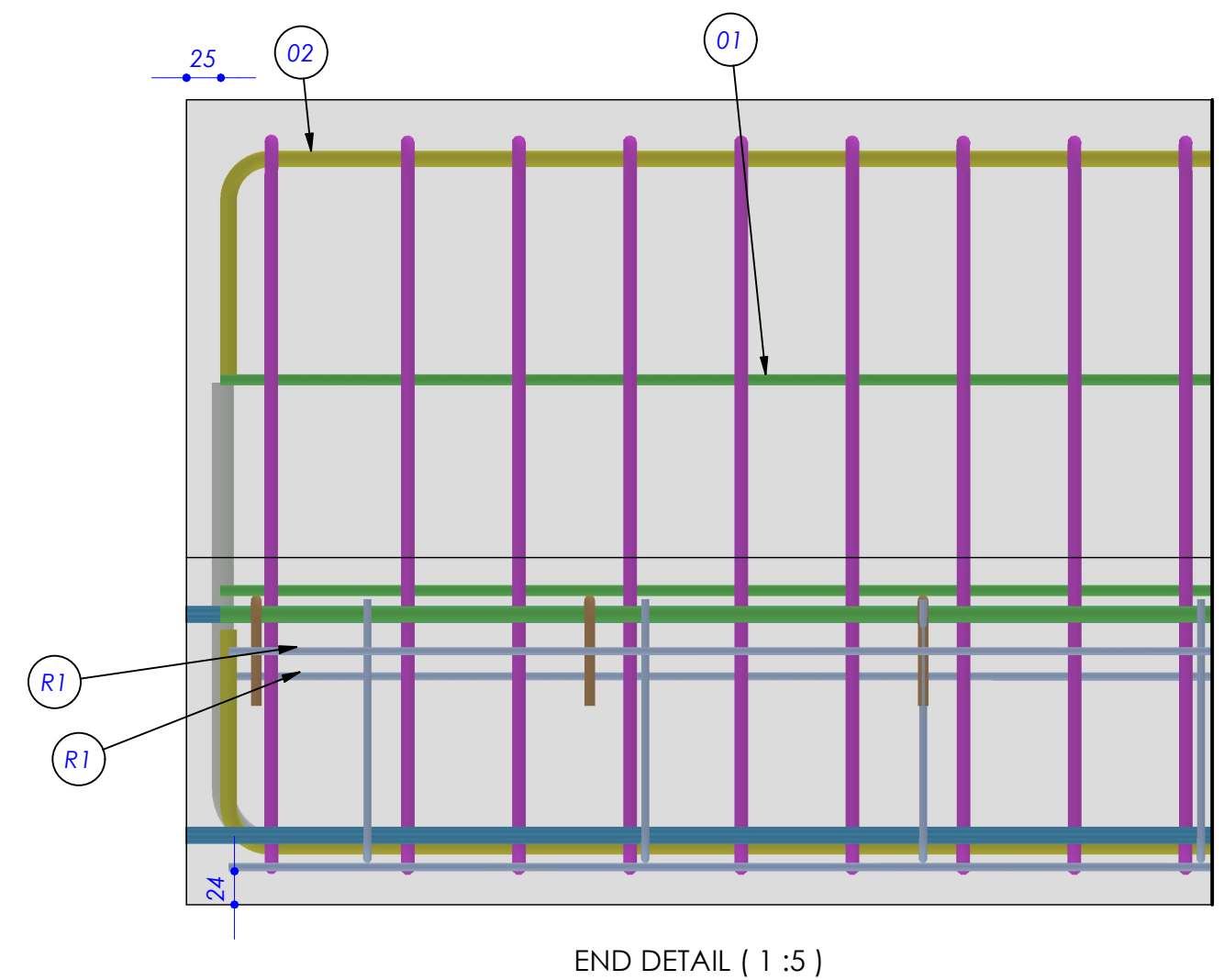
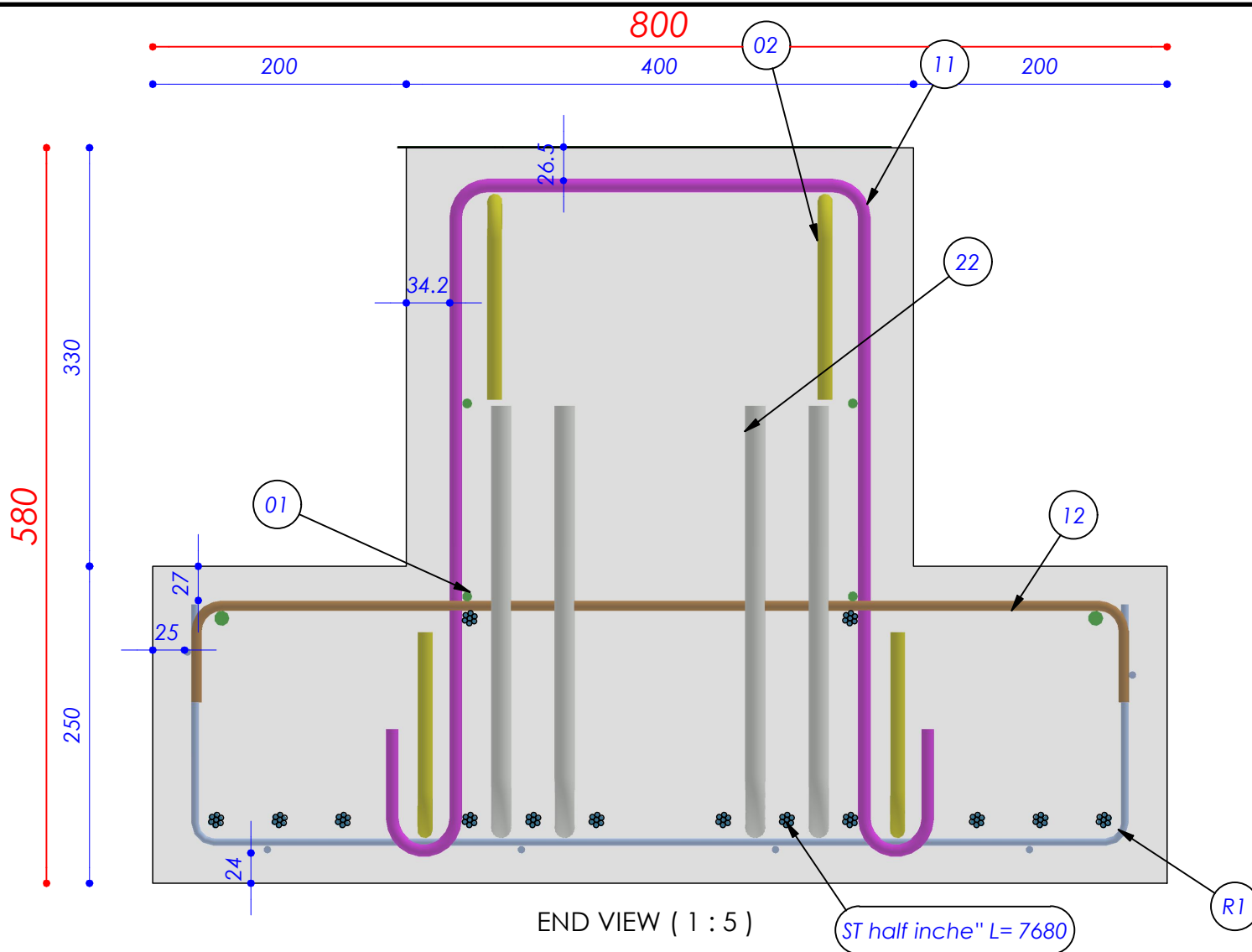
AUTODESK
 INVENTOR

sheet number **1 of 2**

Thumbnail	art Number	QTY	Mass	Total mass	Ø_	_longitudir	pattern_T	_transvers	pattern_L
	01	4	3011	12044	8 mm				
	02	4	7018	28072	12 mm				
	03	2	6774	13548	12 mm				
	11	64	982	62848	10 mm				
	12	46	341	15686	8 mm				
	22	8	2378	19024	16 mm				
Total mass rebars [kg]			151,22		Incidence kg/m³	59,30			
	R1	1	19373	19373		6 mm	200 mm	6 mm	200 mm
mass welded-wire-meshes [kg]			19,37		Incidence kg/m³	7,60			
	f inche" L=	14	5612,5	78575	12,7 mm				
Total mass strands [kg]			78,575		Incidence kg/m³	30,81			
Total mass of steel [kg]			249,17		Total concrete volu	2,55			

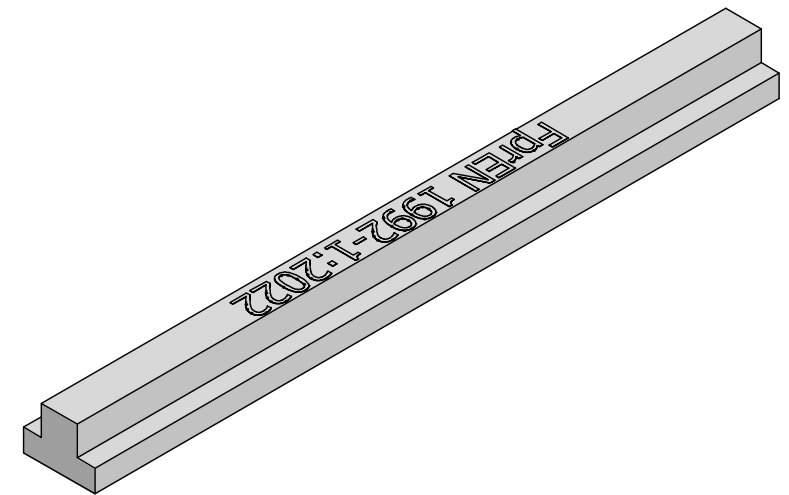


Project name **BIBM** Federation of the European Precast Concrete Industry
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dlc consulting	bibm	AUTODESK INVENTOR
sheet number	1 of 2	

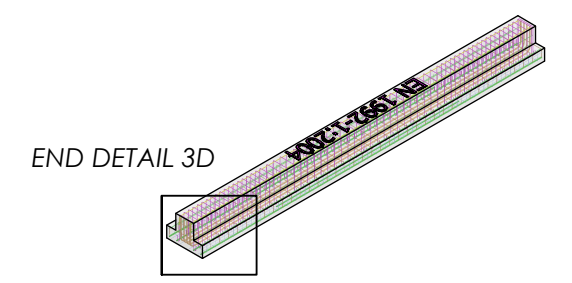
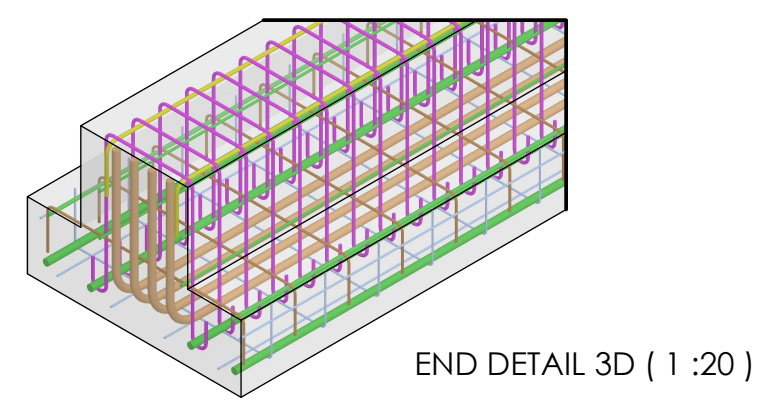
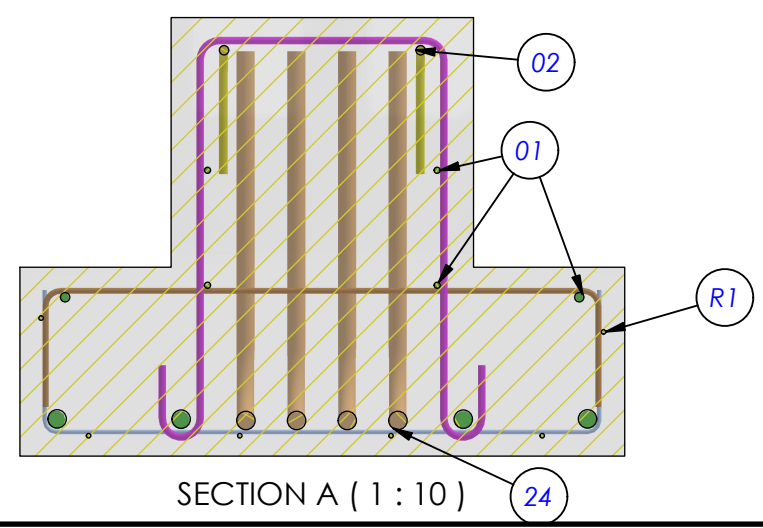
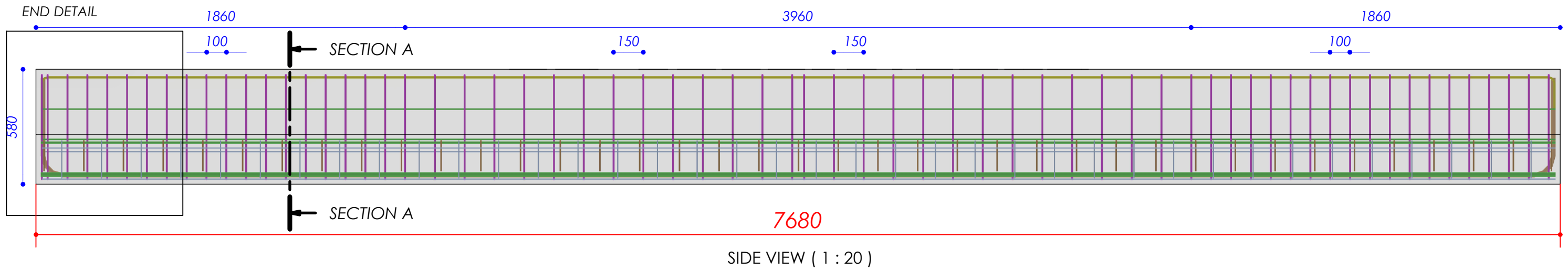
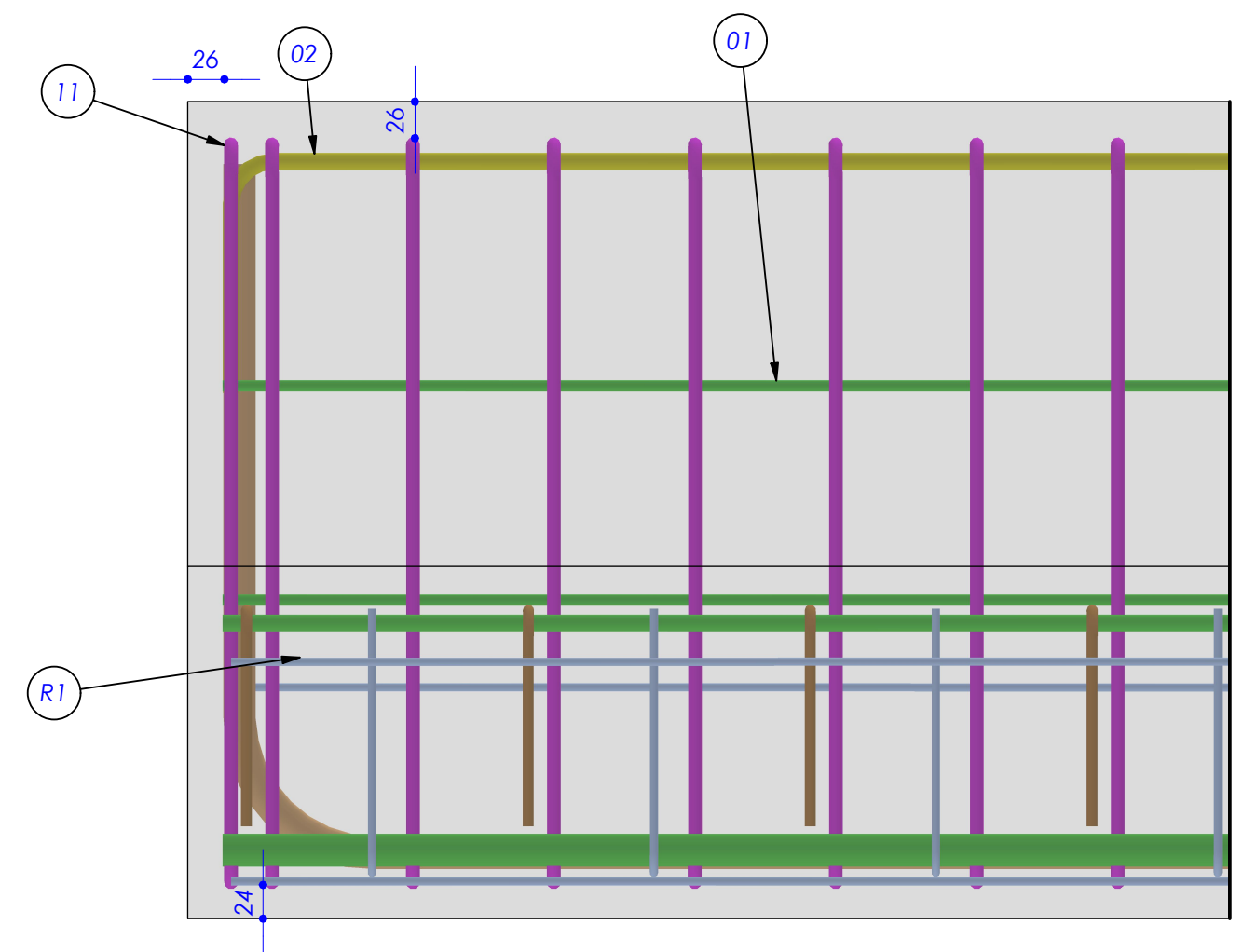
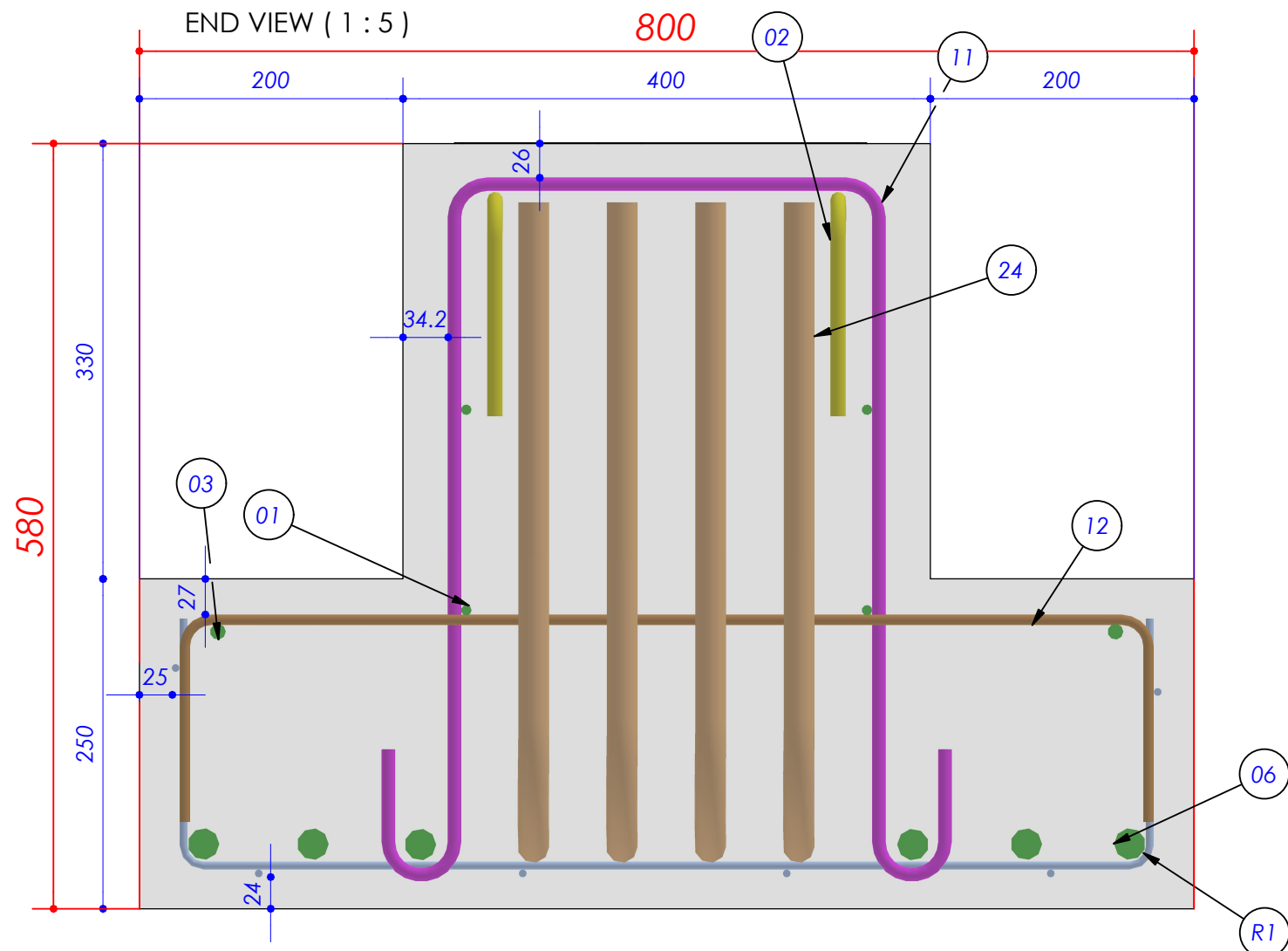
Thumbnail	Part Number	QTY	Mass	Total mass	Ø_	Ø_longitudinal	pattern_T	Ø_transverse	pattern_L	
	01	4	3011	12044	8 mm					
	02	4	7018	28072	12 mm					
	03	2	6774	13548	12 mm					
	11	71	982	69722	10 mm					
	12	35	341	11935	8 mm					
	22	8	2378	19024	16 mm					
Total mass rebars [kg]			154,35	Incidence kg/m³		60,53				
	R1	1	19373	19373		6 mm	200 mm	6 mm	200 mm	
Total mass welded-wire-meshes [kg]			19,37	Incidence kg/m³		7,60				
	ST half inche" L= 7680	14	5612,5	78575	12,7 mm					
Total mass strands [kg]			78,575	Incidence kg/m³		30,81				
Total mass of steel [kg]			252,29	Total concrete volume [m³]		2,55				



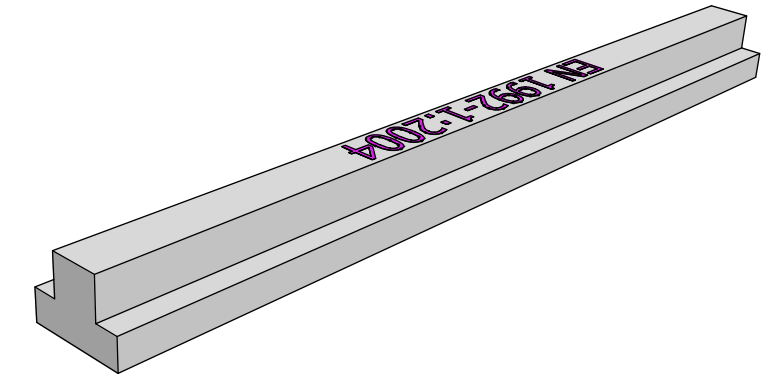
Project name **BIBM** Federation of the European Precast Concrete Industry
Code **INVERTED-T BEAM FprEN 1992-1:2022**



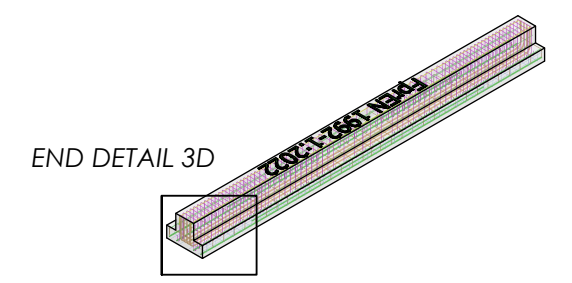
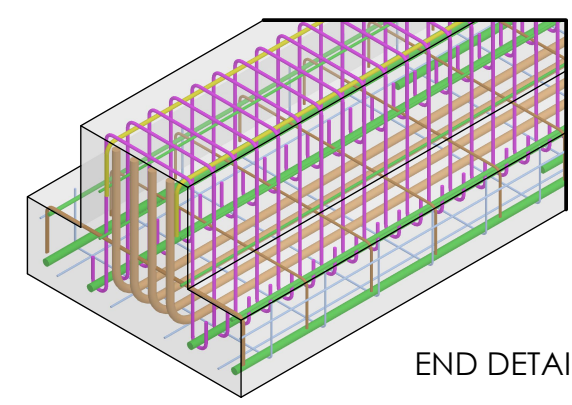
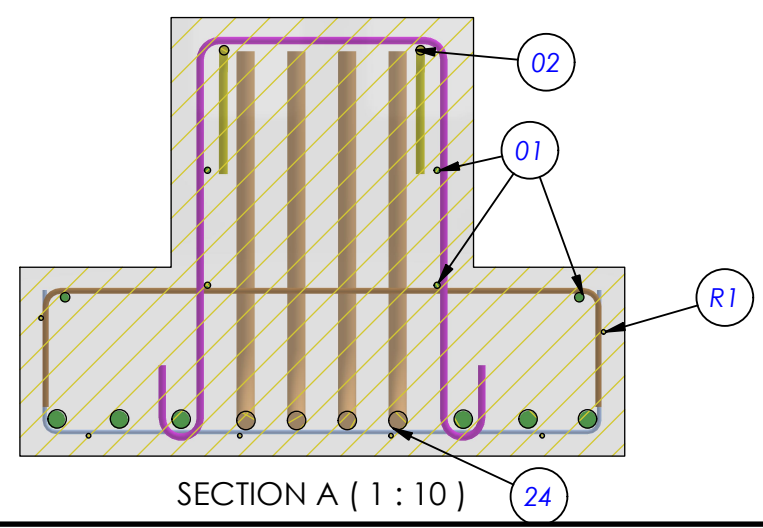
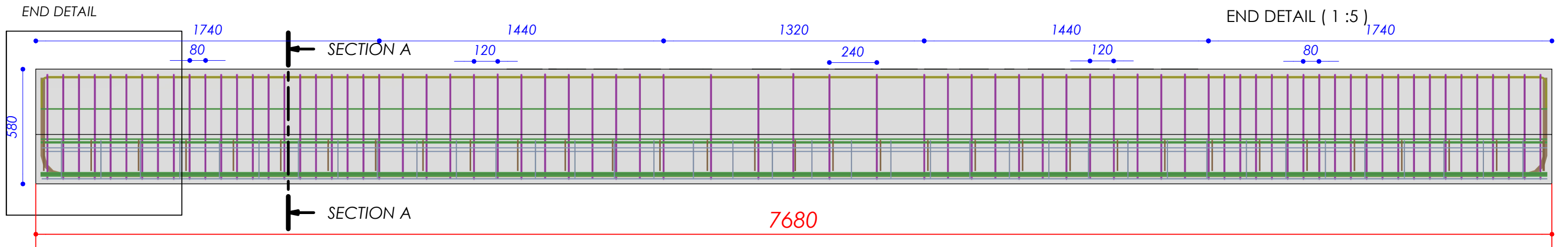
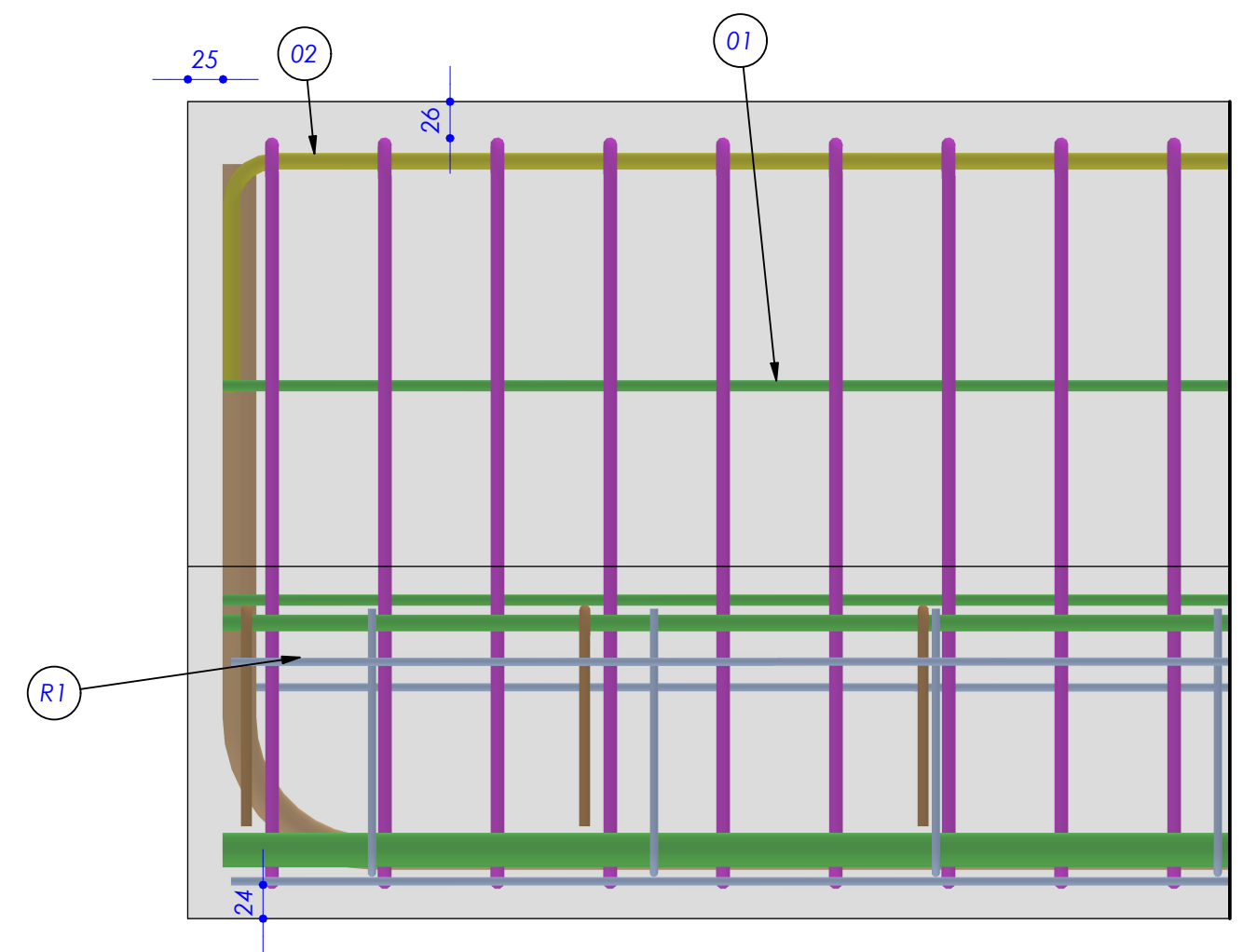
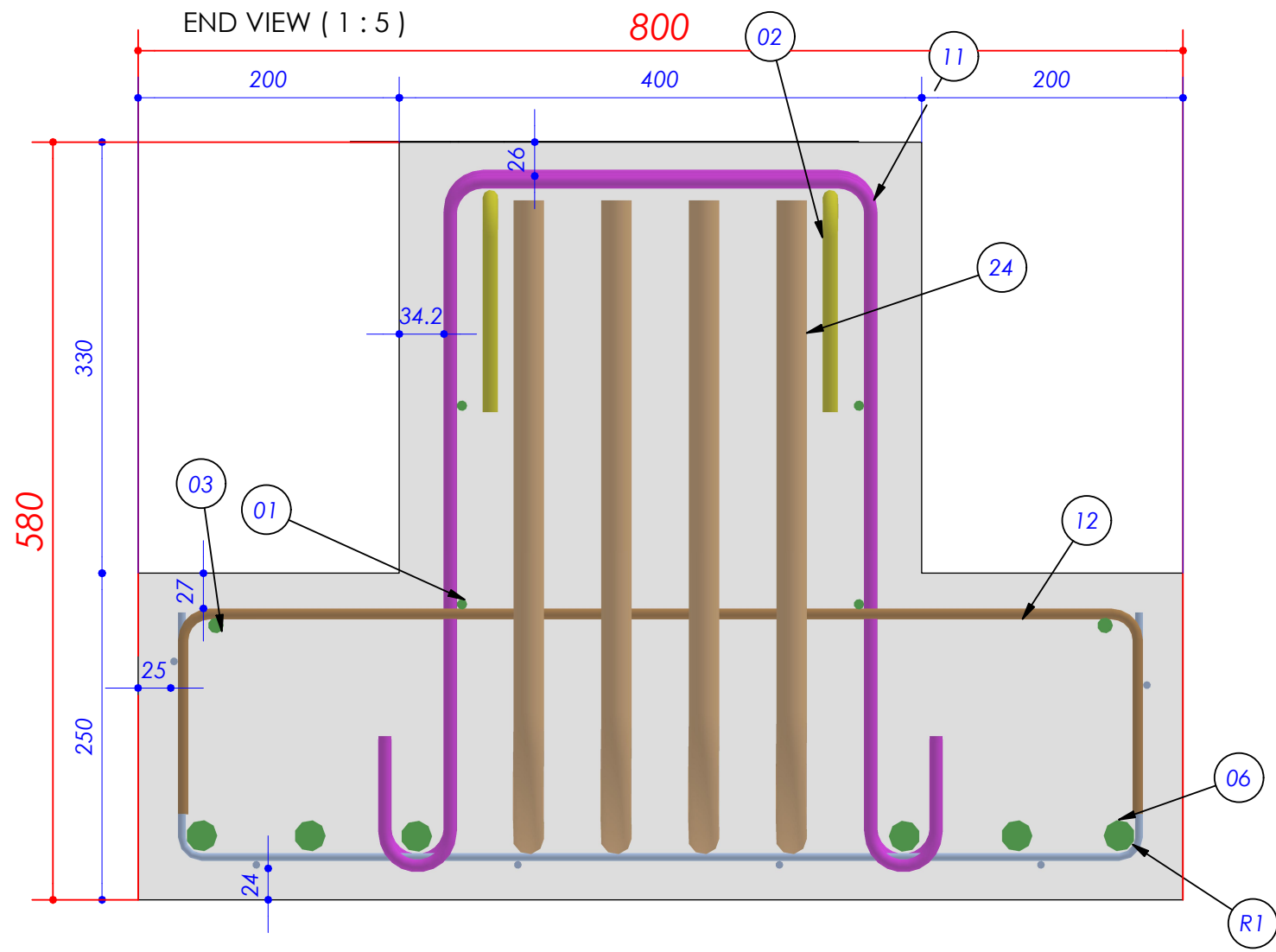
sheet number **2 of 2**



Thumbnail	Part Number	QTY	Mass	Total mass	Ø_	Ø_longitudinal	pattern_T	Ø_transverse	pattern_L	
	01	4	3011	12044	8 mm					
	02	2	7032	14064	12 mm					
	03	2	6774	13548	12 mm					
	06	4	27096	108384	24 mm					
	08	2	14489	28978	24 mm					
	11	65	982	63830	10 mm					
	12	39	402	15678	8 mm					
	24	4	30184	120736	24 mm					
Total mass rebars [kg]			377,26	Incidence kg/m³		147,95				
	R1	1	19373	19373		6 mm	200 mm	6 mm	200 mm	
Total mass welded-wire-meshes [kg]			19,37	Incidence kg/m³		7,60				
Total mass of steel [kg]			396,64	Total concrete volume [m³]		2,55				



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Code **INVERTED-T BEAM W.P.EN 1992-1:2004**



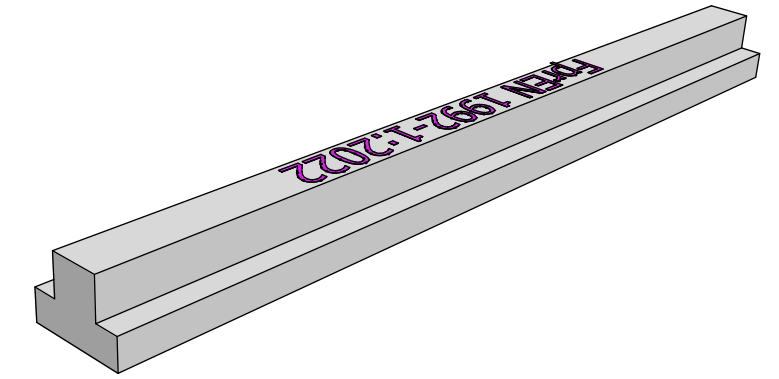
Project name **BIBM** Federation of the European Precast Concrete Industry

Code **INVERTED-T BEAM WP FprEN 1992-1:2022**



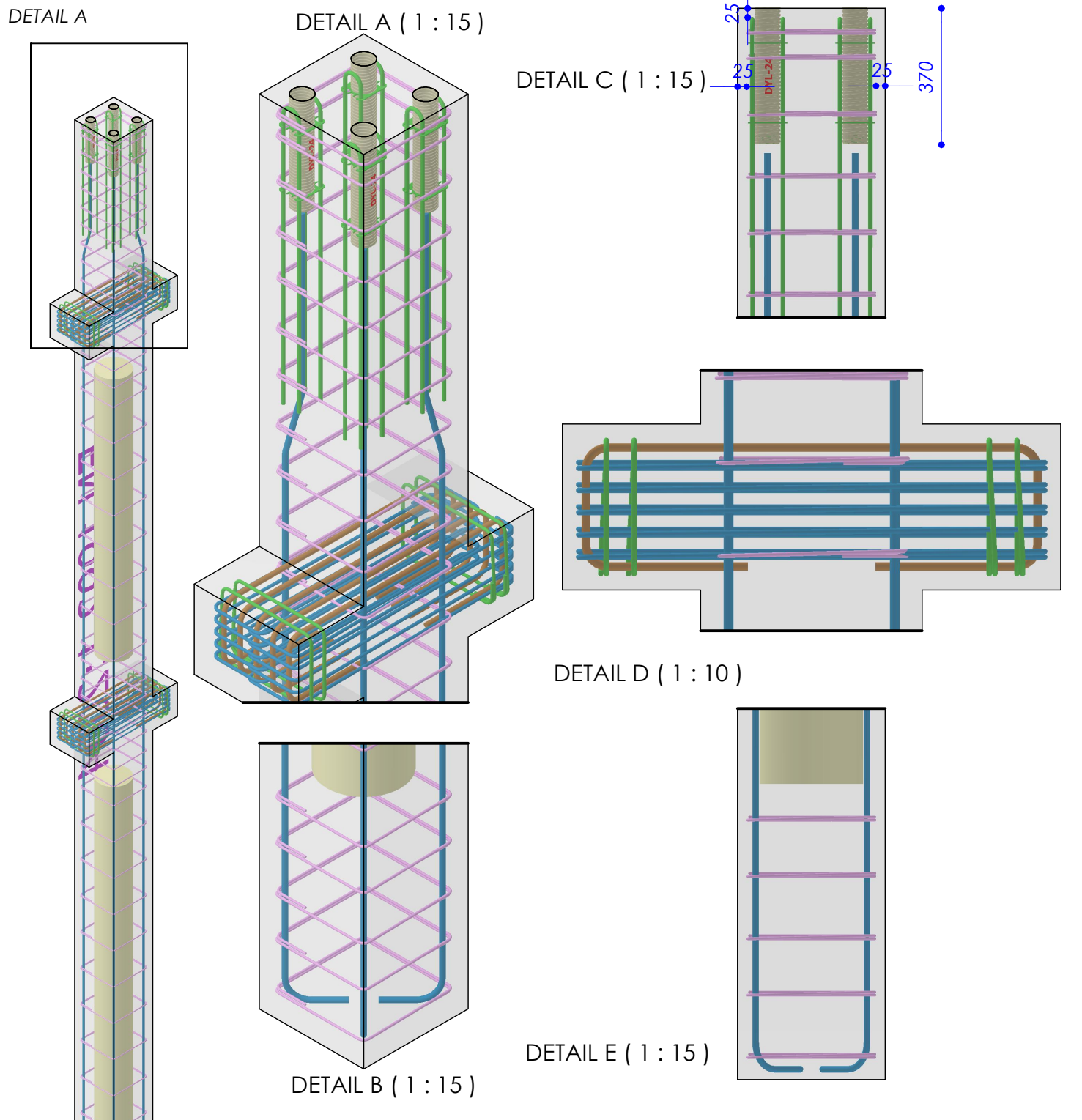
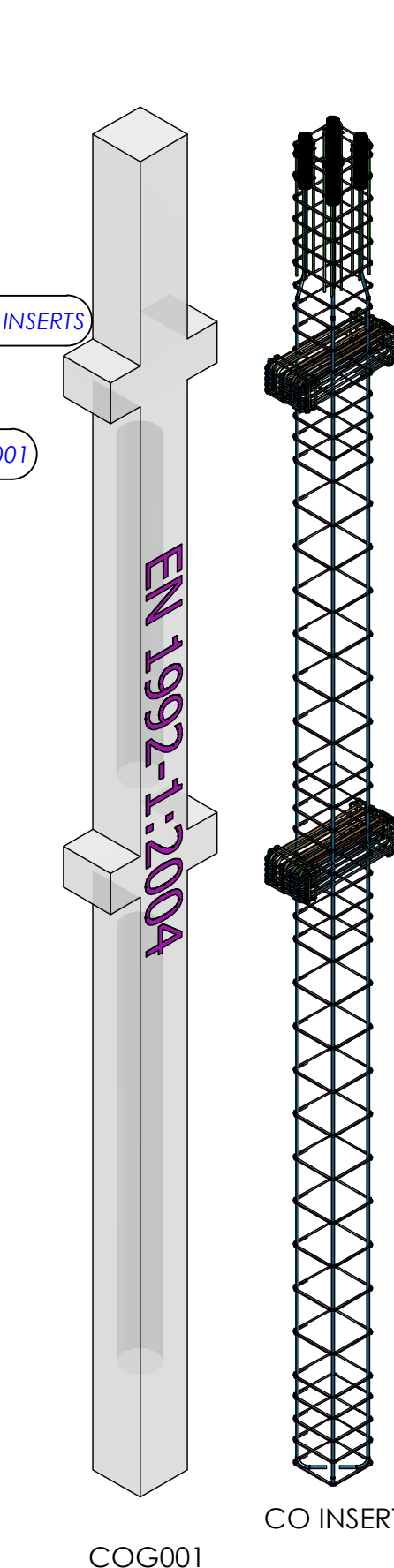
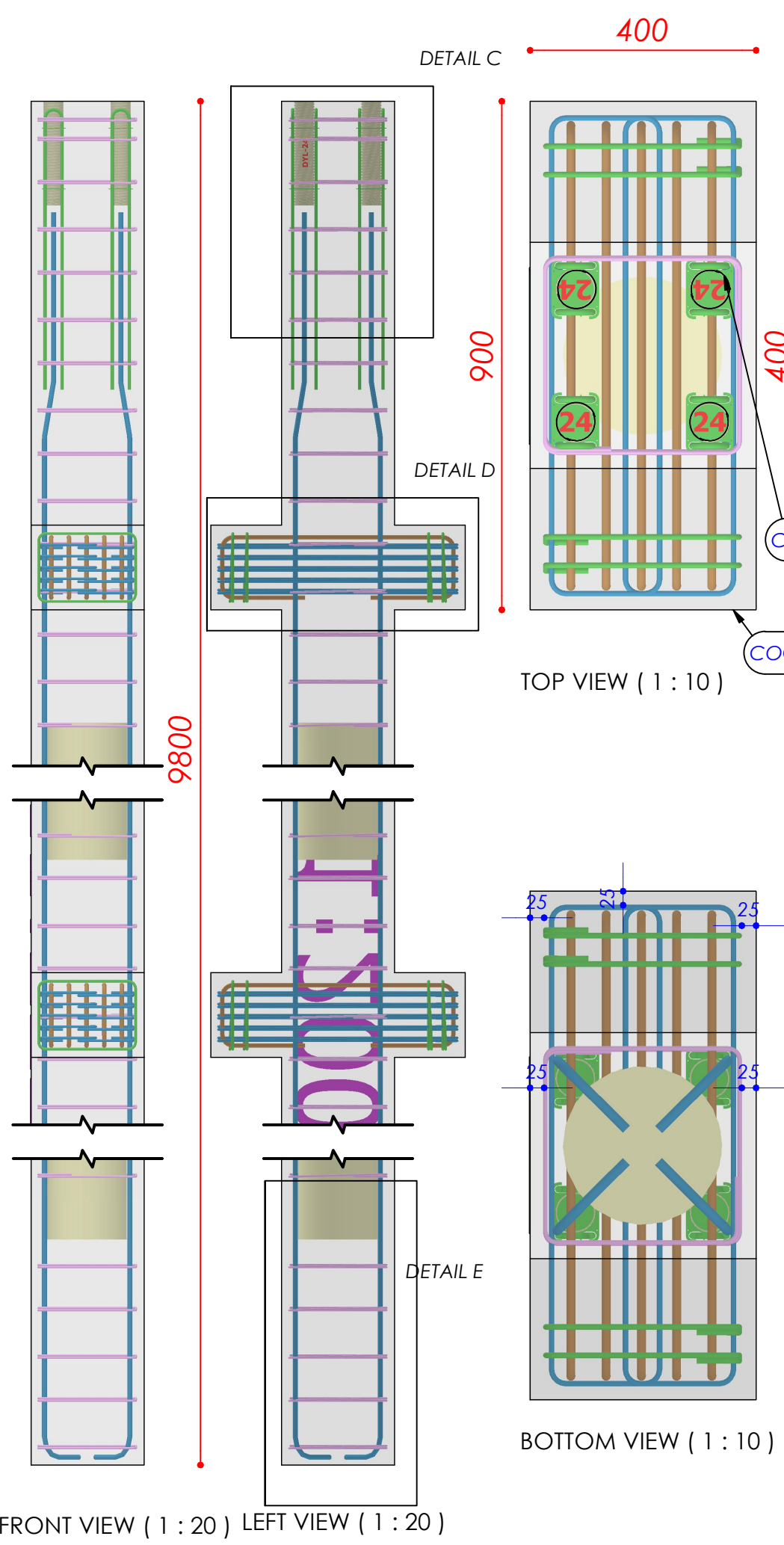
sheet number **1 of 2**

Thumbnail	Part Number	QTY	Mass	Total mass	Ø_	Ø_longitudinal	pattern_T	Ø_transverse	pattern_L
	01	4	3011	12044	8 mm				
	02	2	7032	14064	12 mm				
	03	2	6774	13548	12 mm				
	06	4	27096	108384	24 mm				
	07	2	18396	36792	24 mm				
	11	73	982	71686	10 mm				
	12	34	402	13668	8 mm				
	24	4	30184	120736	24 mm				
Total mass rebars [kg]			390,92	Incidence kg/m³		153,30			
	R1	1	19373	19373		6 mm	200 mm	6 mm	200 mm
mass welded-wire-meshes [kg]			19,37	Incidence kg/m³		7,60			
Total mass of steel [kg]			410,30	Total concrete volume [m³]		2,55			



Project name **BIBM** Federation of the European Precast Concrete Industry
Code **INVERTED-T BEAM WP FprEN 1992-1:2022**

PART LIST				
QTY	CODE	DESCRIPTION	MASS	MATERIAL
45	20	BAR 8 STRAIGHT WITH 90° ANGLES	874 g	B450C
8	24	BAR 6 STRAIGHT WITH 90° ANGLES	773 g	B450C
20	25	BAR 6 STRAIGHT WITH 90° ANGLES	1329 g	B450C
10	26	BAR 5 STRAIGHT WITH 90° ANGLES	2774 g	B450C
4	DYS_C_24_YES_H=9800	DRYSCON_SLEEVE_COLUMN_24_with continuity (YES)_H=9800 mm	3,847 kg	
4	04	BAR 4 STRAIGHT WITH VARIABLE ANGLES	19022 g	B450C

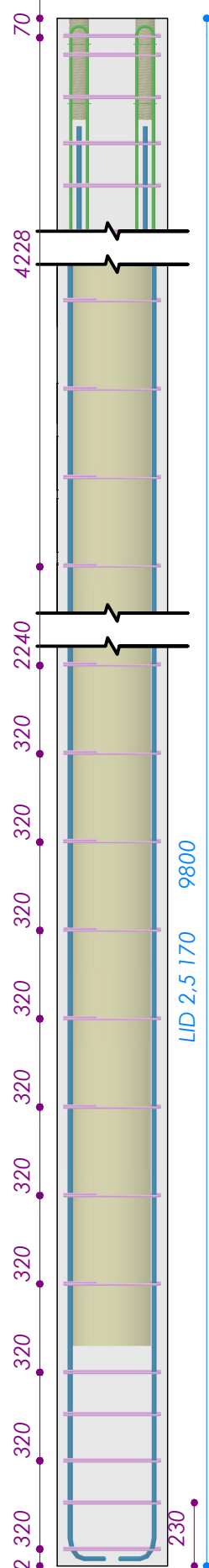
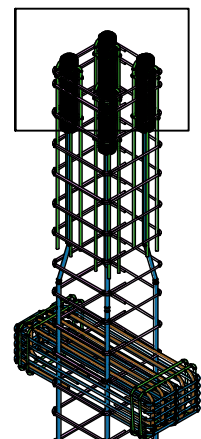


Project name **BIBM** Federation of the European Precast Concrete Industry
 Code **COLUMN BOT. EN 1992-1:2004**

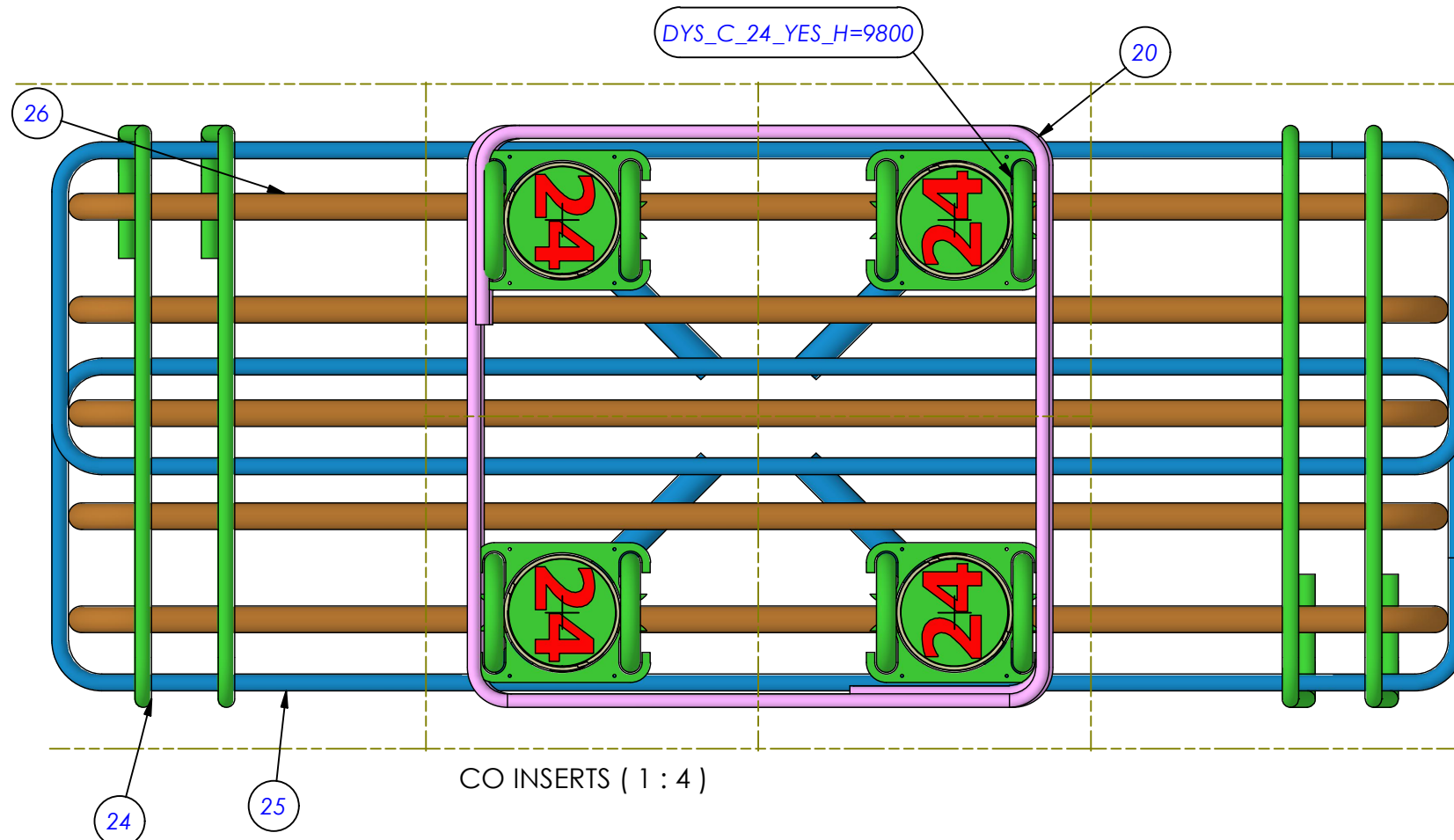
DYA DYS COLUMN

CODE	QTY	Ø (mm)	T _{total}	MASS	DESCRIPTION
20	45	8	202 cm	874 g	BAR 8 STRAIGHT WITH 90° ANGLES
24	8	10	126 cm	773 g	BAR 6 STRAIGHT WITH 90° ANGLES
25	20	10	216 cm	1329 g	BAR 6 STRAIGHT WITH 90° ANGLES
26	10	16	176 cm	2774 g	BAR 5 STRAIGHT WITH 90° ANGLES
DYS_C_24_YES_H=9800	4			3,847 kg	DRYSCON_SLEEVE_COLUMN_24_with continuity (YES)_H=9800 mm
04	4	18	947 cm	19022 g	BAR 4 STRAIGHT WITH VARIABLE ANGLES

DETAIL R

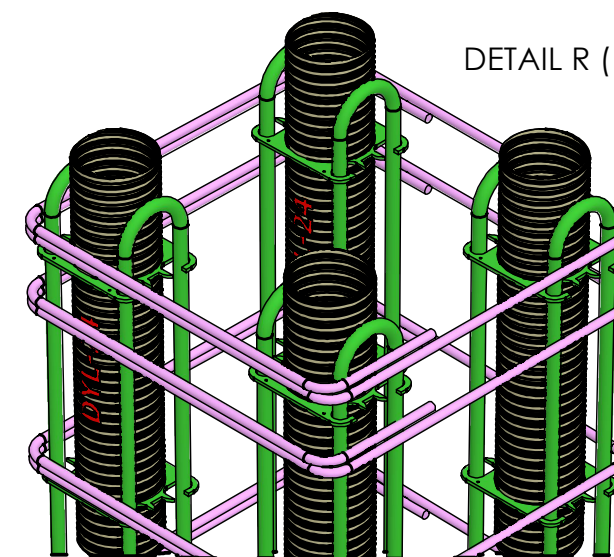


DETAIL AH

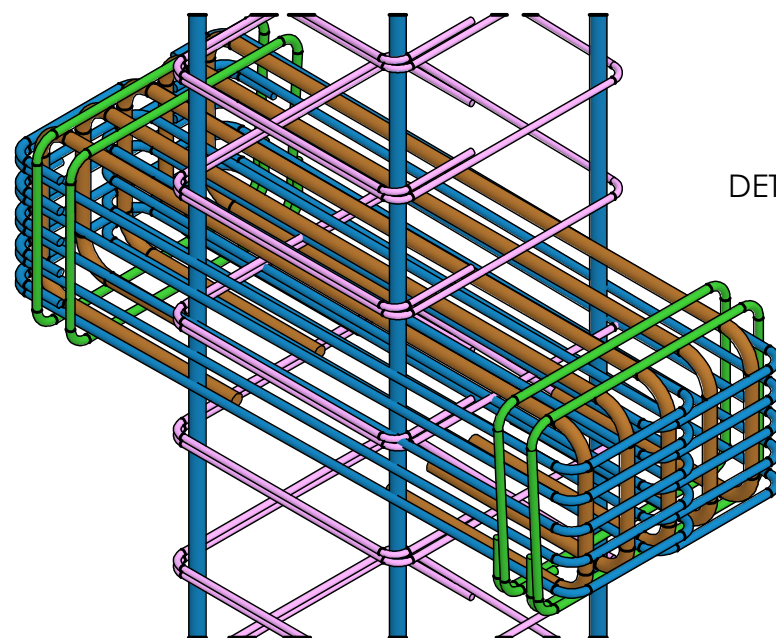


CO INSERTS (1 : 4)

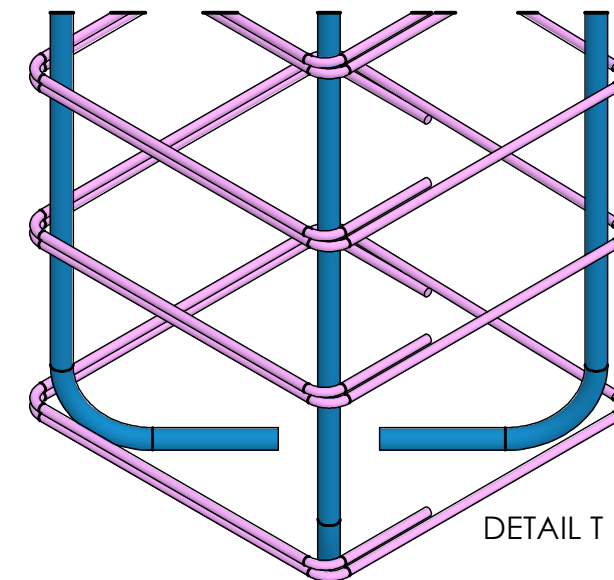
DETAIL R (1 : 6)



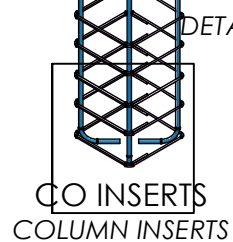
DETAIL AH (1 : 8)



DETAIL T (1 : 6)











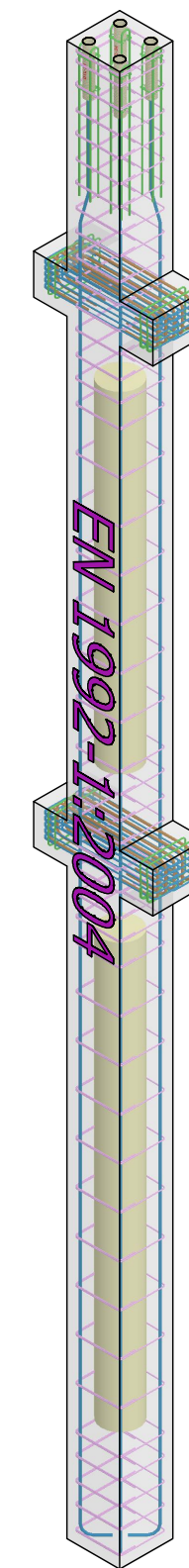
DETAIL T



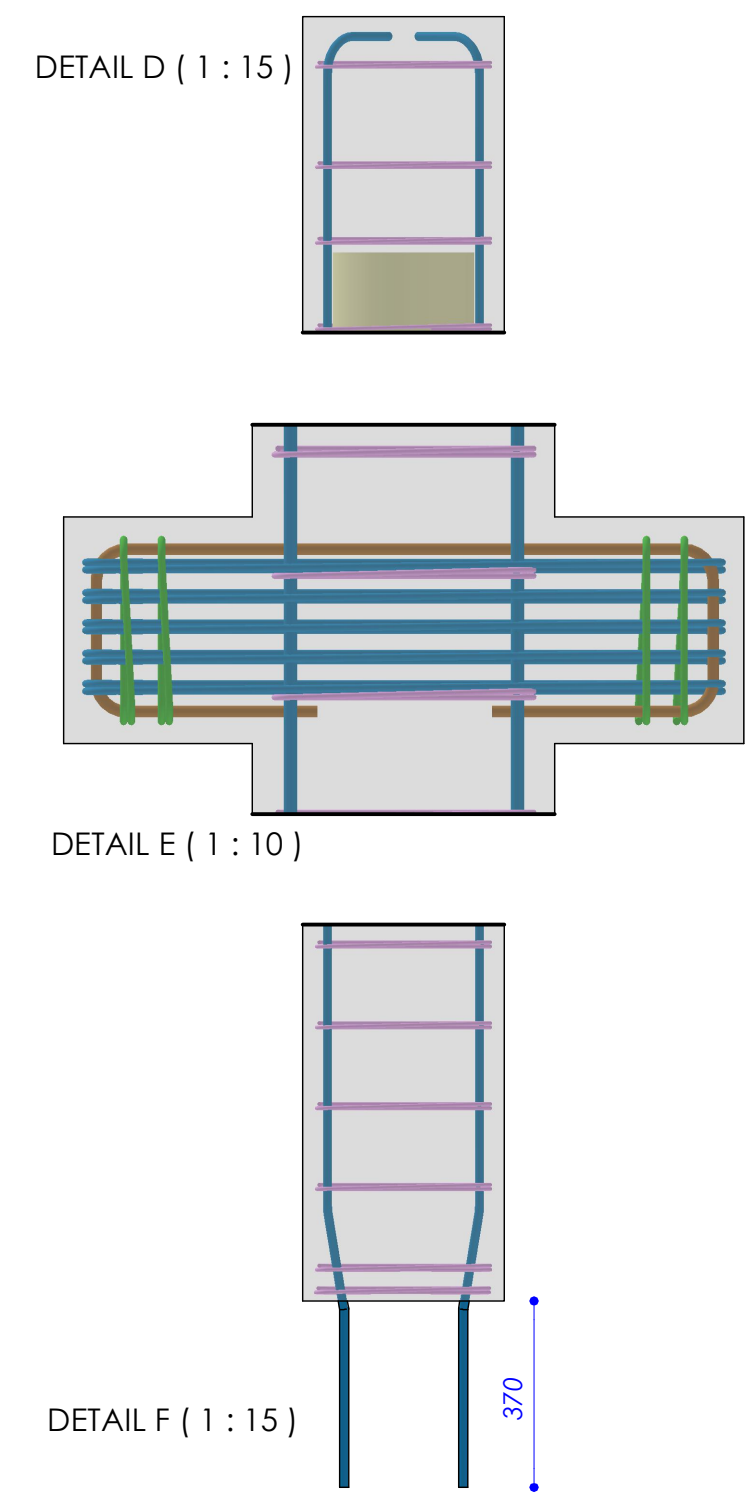
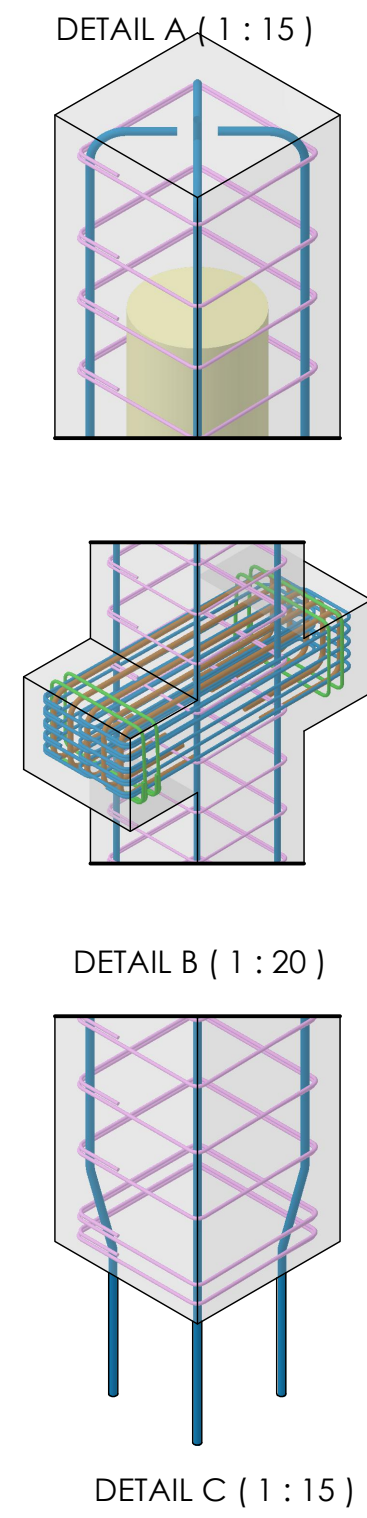
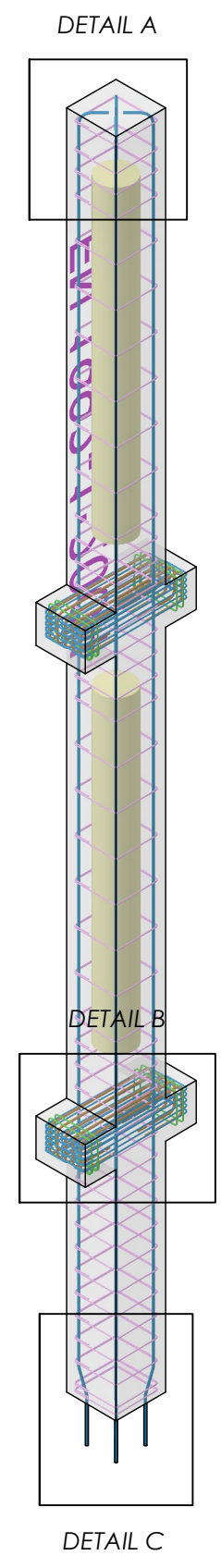
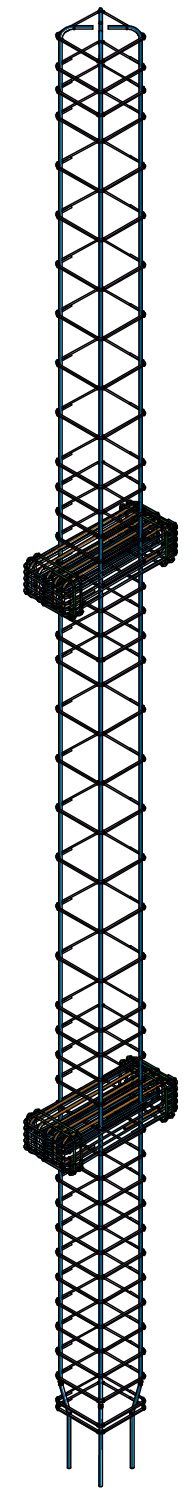
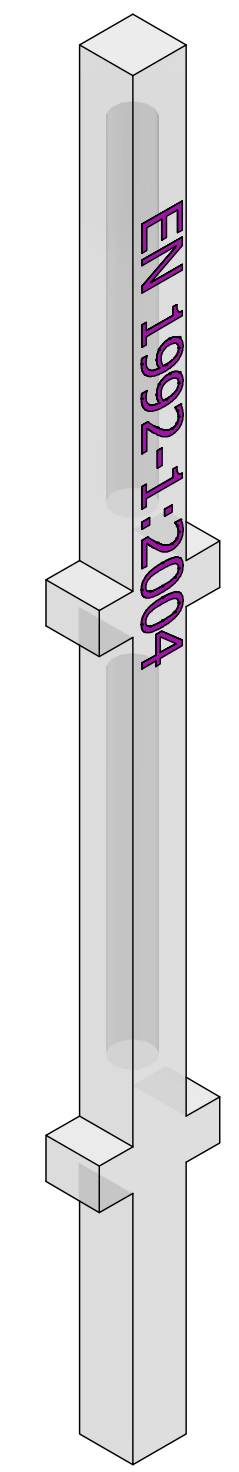
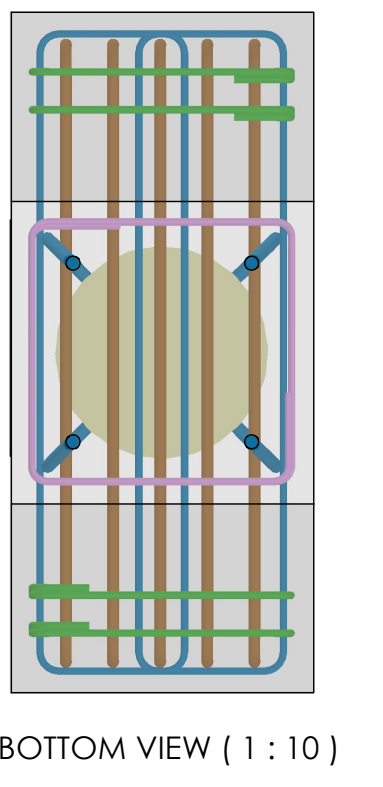
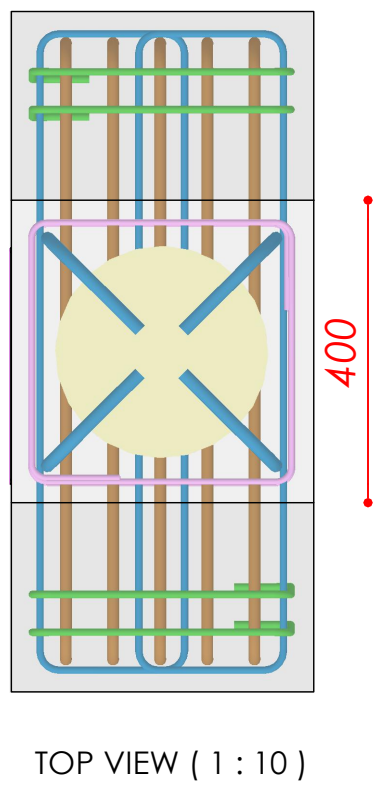
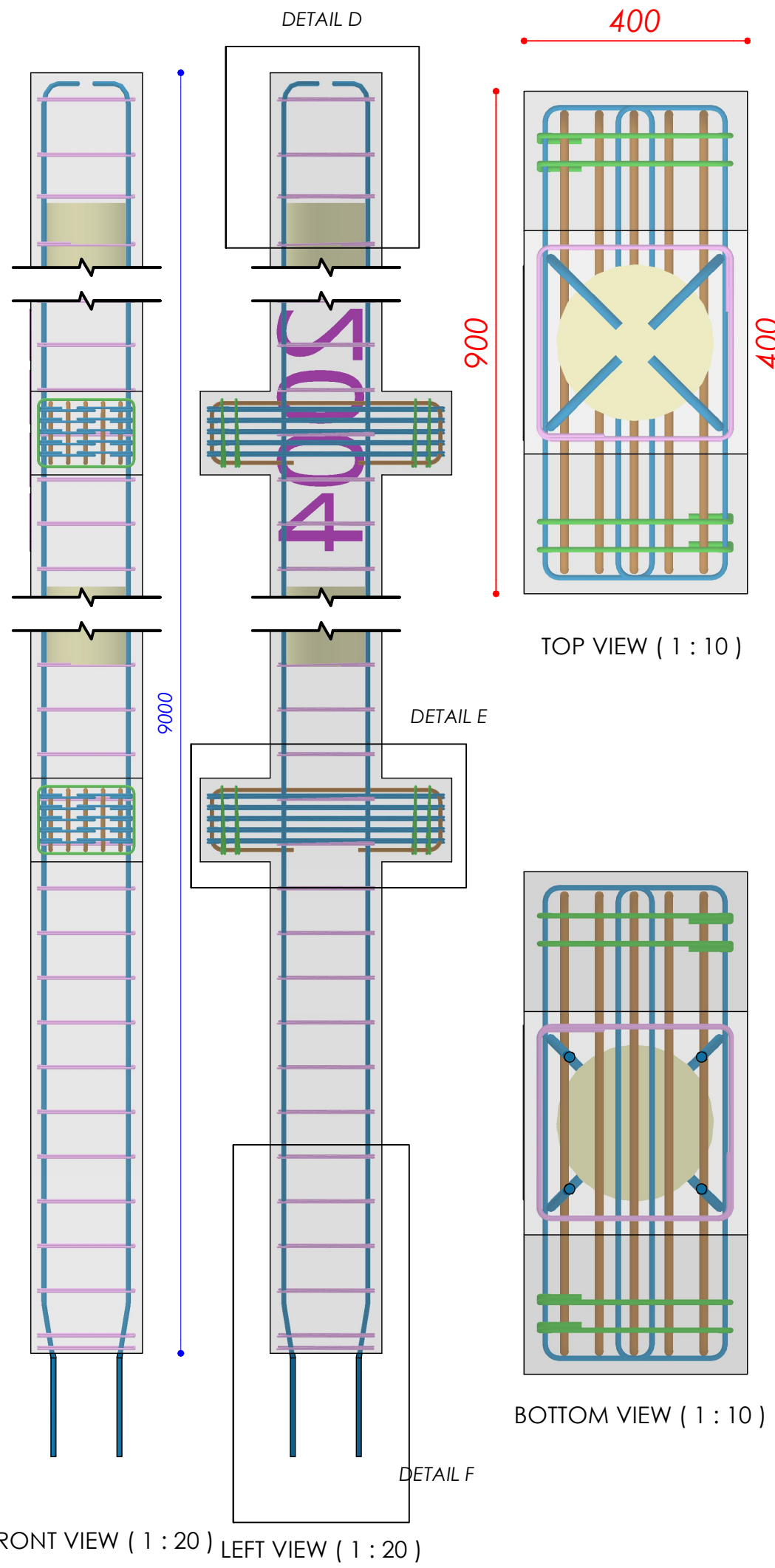
FRONT VIEW (1 : 23)

Project name **BIBM** Federation of the European Precast Concrete Industry
Code **COLUMN BOT. EN 1992-1:2004**

Thumbnail	Part Number	QTY	Mass	Total mass	Ø_	Ø_longitudinal	pattern_T	Ø_transverse	
	04	4	19022	76088	18 mm				
	20	45	874	39330	8 mm				
	24	8	773	6184	10 mm				
	25	20	1329	26580	10 mm				
	26	10	2774	27740	16 mm				
	DYS_C_24	4	3847	15388					
Total mass rebars [kg]			191,31	Incidence kg/m³		143,09			
	lightening 1	1	7697	7697					
	lightening 2	1	9852	9852					
Total mass lightening [kg]			17,55	Incidence kg/m³		13,13			
Total mass of steel [kg]			191,31	Total concrete volume [m³]		1,337			

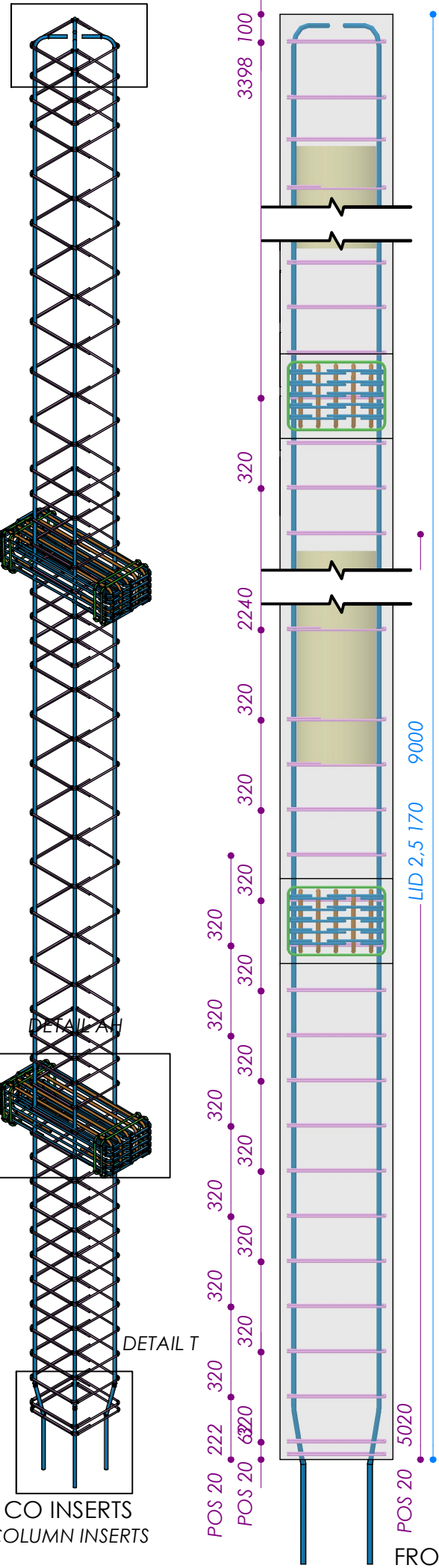


VIEW 109 (1 :40)



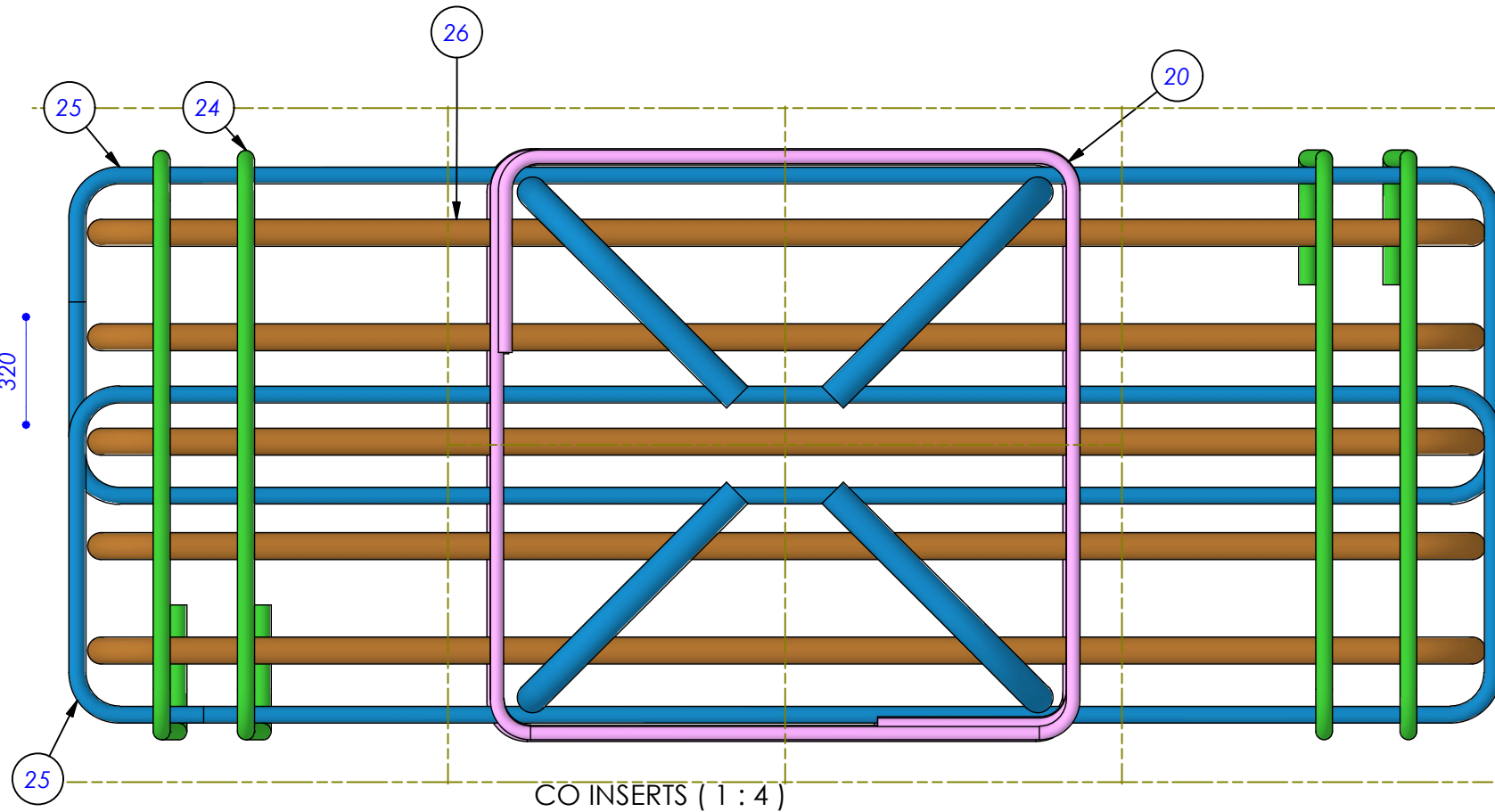
PART LIST				
QTY	CODE	DESCRIPTION	MASS	MATERIAL
43	20	BAR 8 STRAIGHT WITH 90° ANGLES	874 g	B450C
8	24	BAR 6 STRAIGHT WITH 90° ANGLES	773 g	B450C
20	25	BAR 6 STRAIGHT WITH 90° ANGLES	1329 g	B450C
10	26	BAR 5 STRAIGHT WITH 90° ANGLES	2774 g	B450C
4	04	BAR 4 STRAIGHT WITH VARIABLE ANGLES	18929 g	B450C

DETAIL R

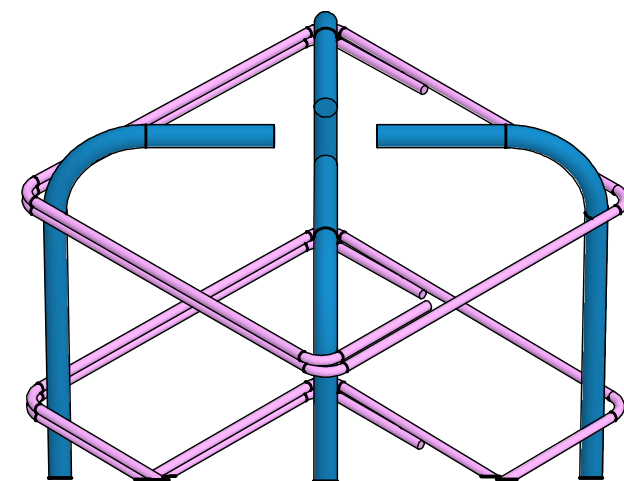


FRONT VIEW (1 : 20)

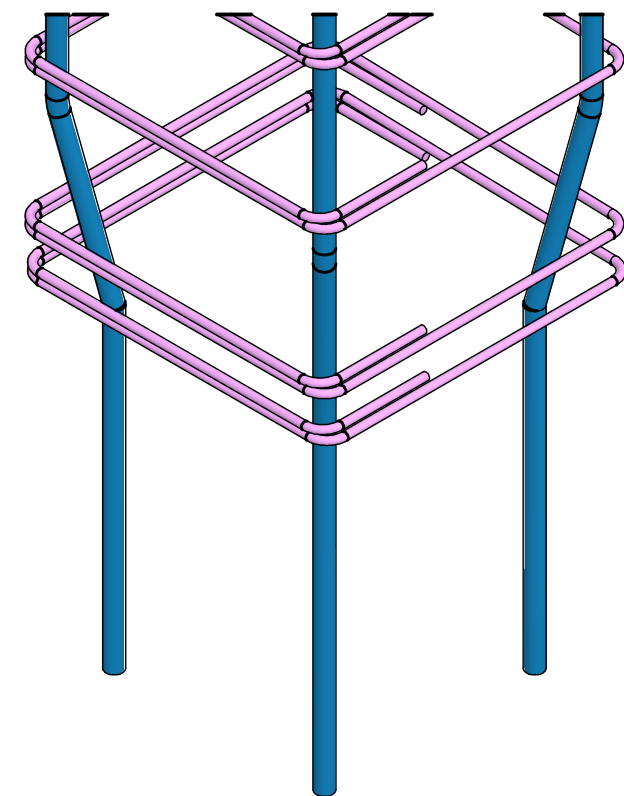
DYA DYS COLUMN						
CODE	QTY	Ø (mm)	T_total	MASS	DESCRIPTION	
20	43	8	202 cm	874 g	BAR 8 STRAIGHT WITH 90° ANGLES	
24	8	10	126 cm	773 g	BAR 6 STRAIGHT WITH 90° ANGLES	
25	20	10	216 cm	1329 g	BAR 6 STRAIGHT WITH 90° ANGLES	
26	10	16	176 cm	2774 g	BAR 5 STRAIGHT WITH 90° ANGLES	
04	4	18	942 cm	18929 g	BAR 4 STRAIGHT WITH VARIABLE ANGLES	



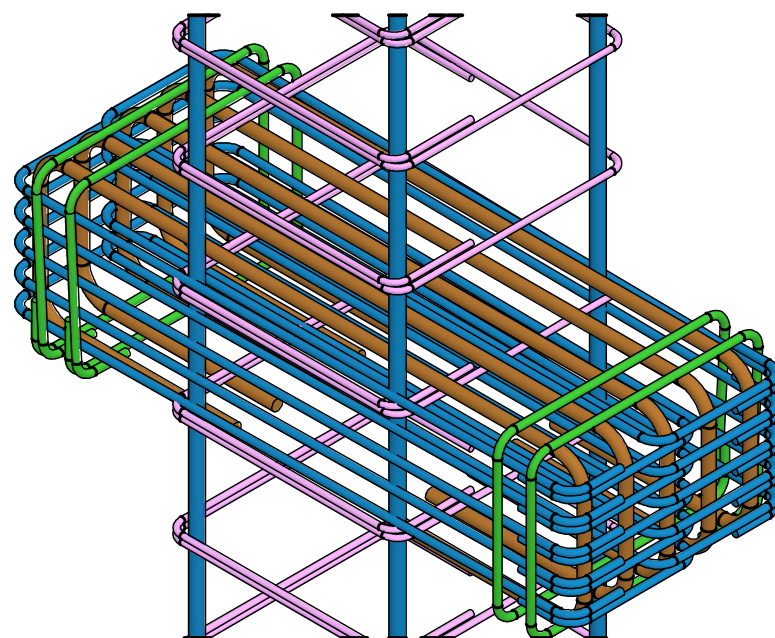
CO INSERTS (1 : 4)



DETAIL R (1 : 6)

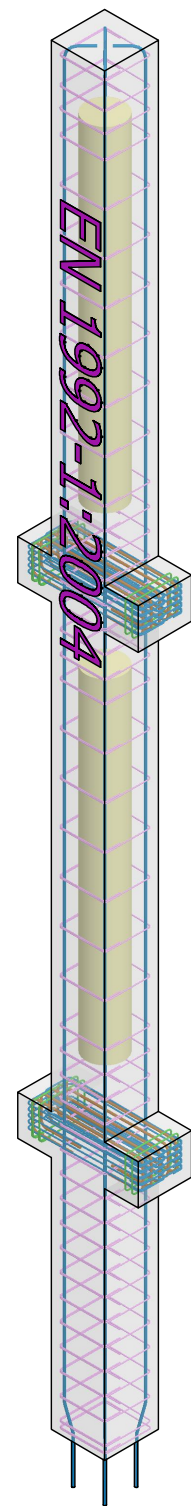


DETAIL T (1 : 6)



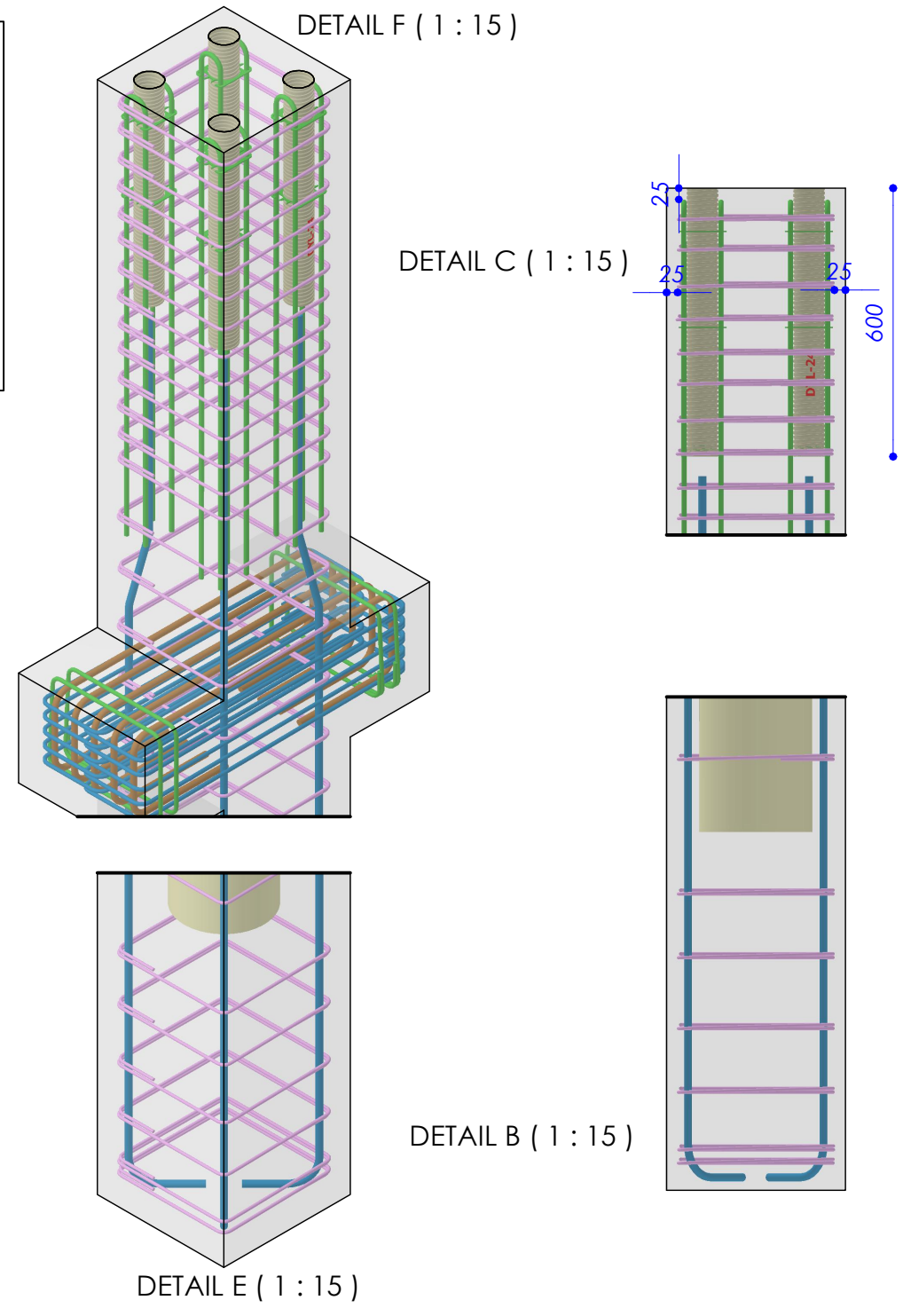
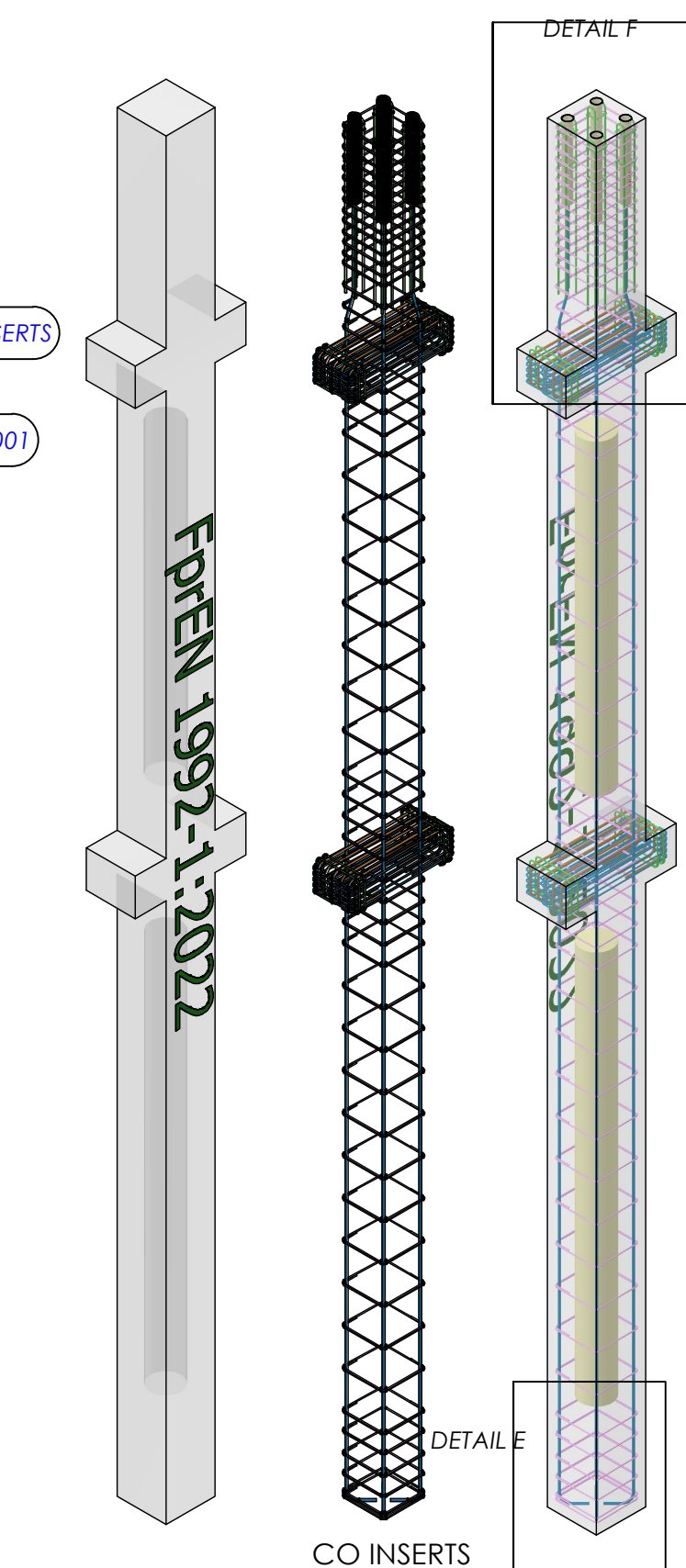
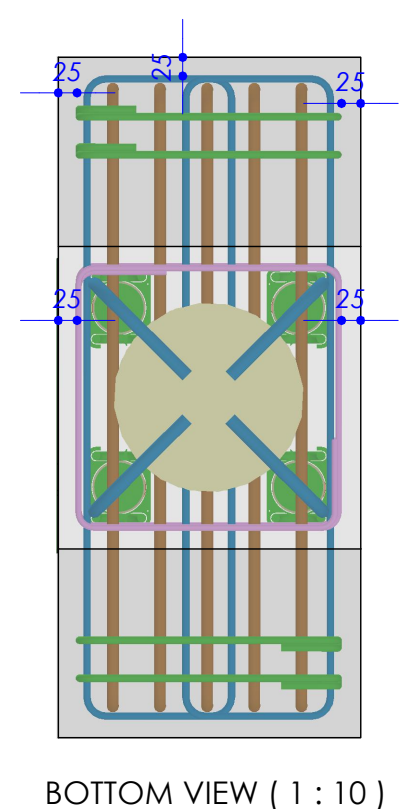
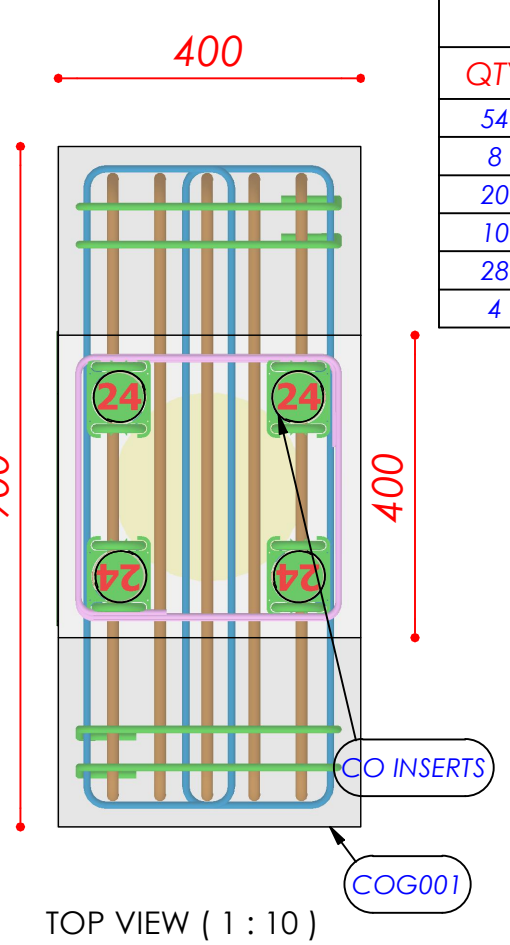
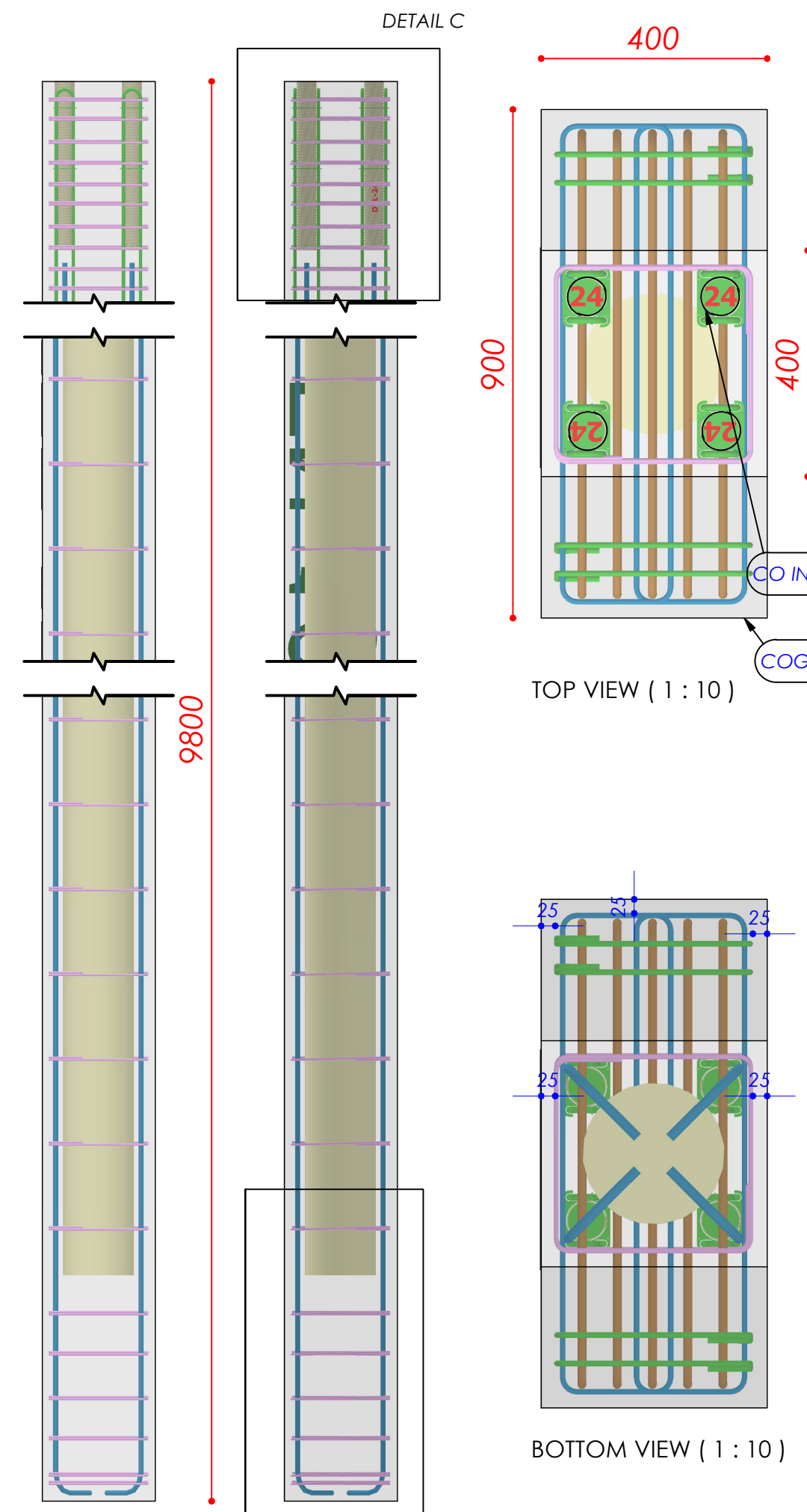
Project name **BIBM** Federation of the European Precast Concrete Industry
 Code **COLUMN TOP EN 1992-1:2004**

Thumbnail	Part Number	QTY	Mass	Total Mass	Ø_				
	04	4	18929	75716	18 mm				
	20	43	874	37582	8 mm				
	24	8	773	6184	10 mm				
	25	20	1329	26580	10 mm				
	26	10	2774	27740	16 mm				
Total mass rebars [kg]			173,80	Incidence kg/m³		138,82			
	lightening 1	1	7697	7697					
	lightening 2	1	7697	7697					
Total mass lightening [kg]			15,39	Incidence kg/m³		12,30			
Total mass of steel [kg]			173,80	Total concrete volume [m³]		1,252			



Project name **BIBM** Federation of the European Precast Concrete Industry
Code **COLUMN TOP EN 1992-1:2004**

PART LIST				
QTY	CODE	DESCRIPTION	MASS	MATERIAL
54	20	BAR 8 STRAIGHT WITH 90° ANGLES	874 g	B450C
8	24	BAR 6 STRAIGHT WITH 90° ANGLES	773 g	B450C
20	25	BAR 6 STRAIGHT WITH 90° ANGLES	1329 g	B450C
10	26	BAR 5 STRAIGHT WITH 90° ANGLES	2774 g	B450C
28	DYS_C_24_YES_H=9800	DRYSCON_SLEEVE_COLUMN_24_with continuity (YES)_H=9800 mm	4,781 kg	
4	04	BAR 4 STRAIGHT WITH VARIABLE ANGLES	18523 g	B450C



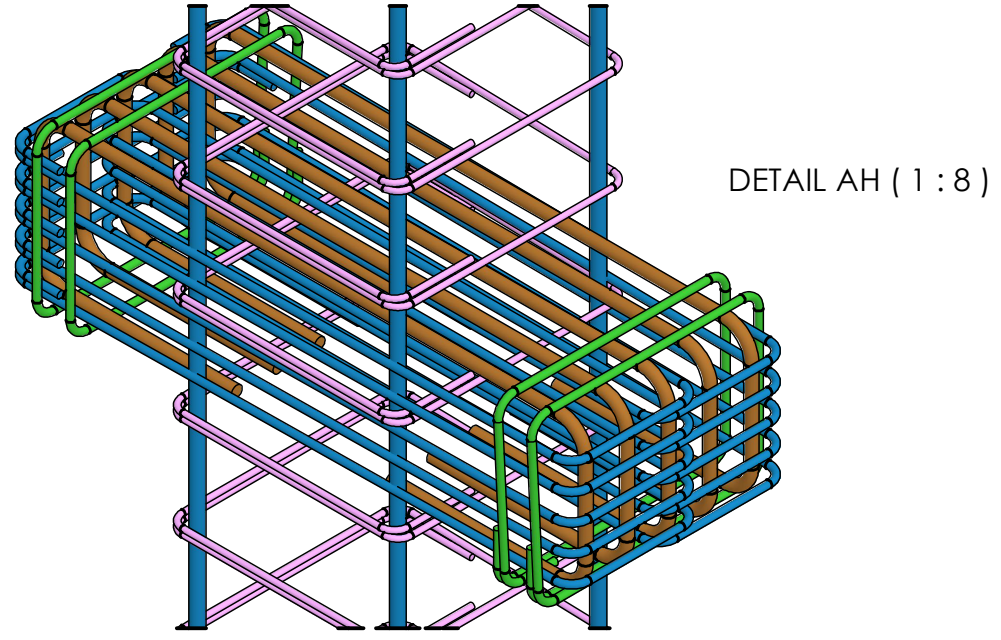
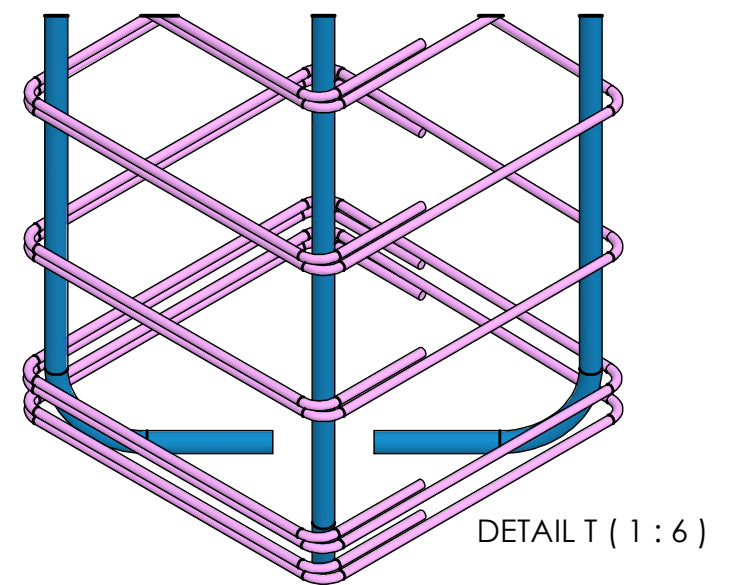
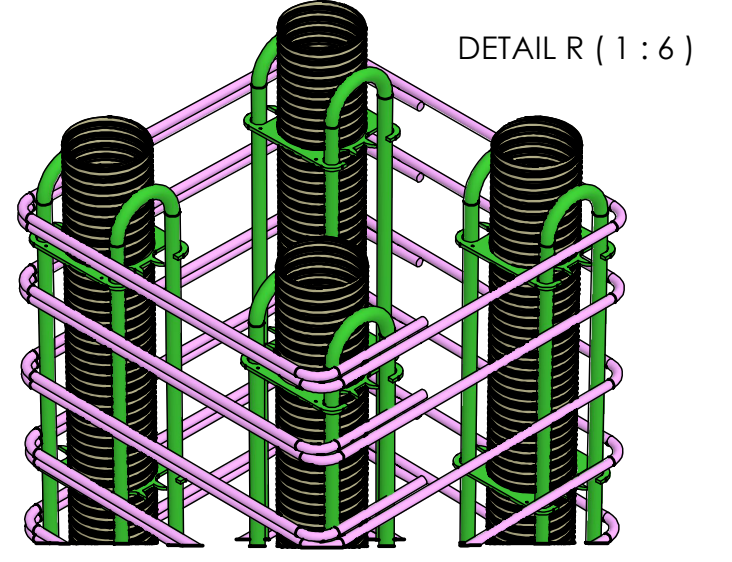
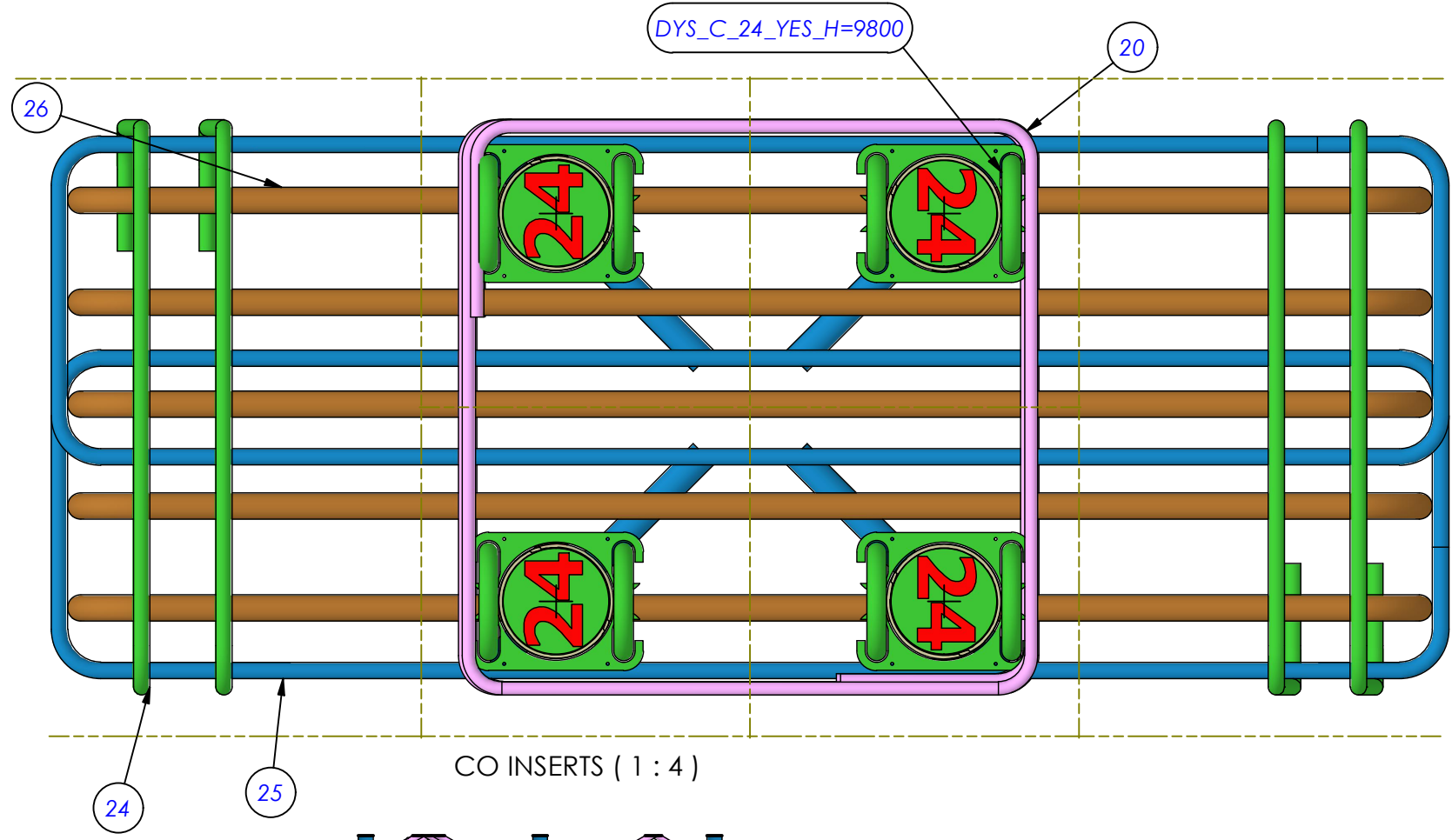
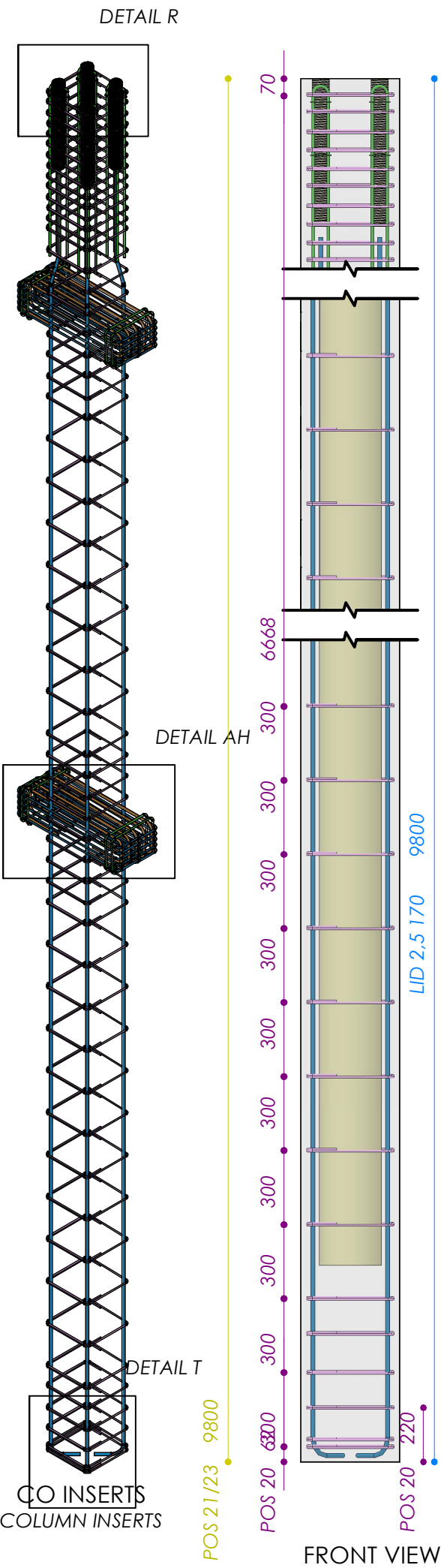
Project name **BIBM** Federation of the European Precast Concrete Industry

Code **COLUMN BOT FprEN 1992-1:2022**

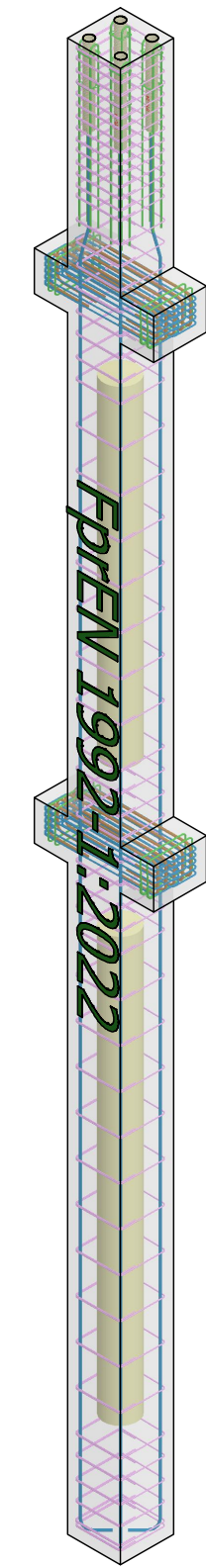
sheet number **1 of 3**

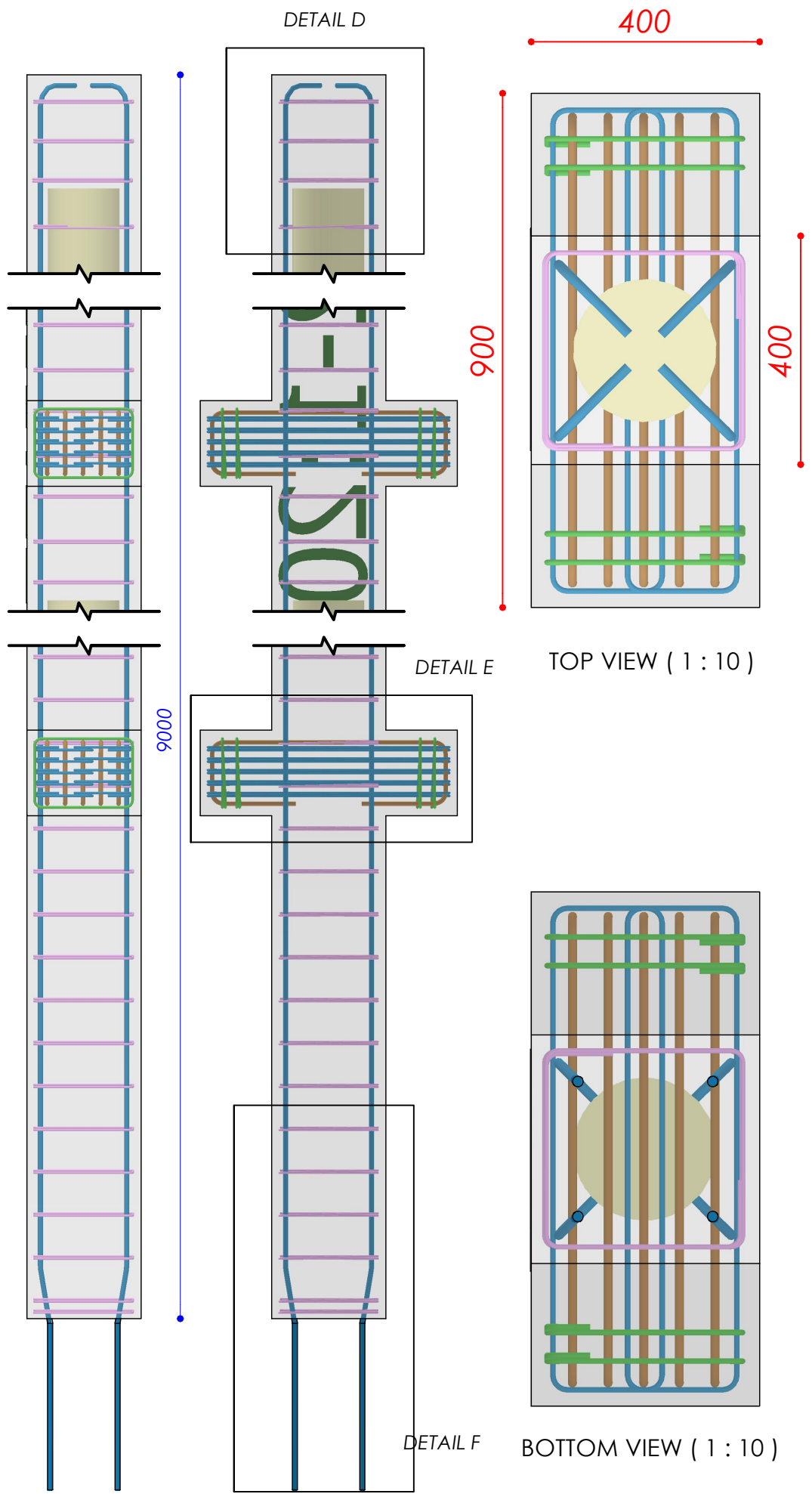
DYA DYS COLUMN

CODE	QTY	Ø (mm)	T _{total}	MASS	DESCRIPTION
20	54	8	202 cm	874 g	BAR 8 STRAIGHT WITH 90° ANGLES
24	8	10	126 cm	773 g	BAR 6 STRAIGHT WITH 90° ANGLES
25	20	10	216 cm	1329 g	BAR 6 STRAIGHT WITH 90° ANGLES
26	10	16	176 cm	2774 g	BAR 5 STRAIGHT WITH 90° ANGLES
DYS_C_24_YES_H=9800	28			4,781 kg	DRYSCON_SLEEVE_COLUMN_24_with continuity (YES)_H=9800 mm
04	4	18	922 cm	18523 g	BAR 4 STRAIGHT WITH VARIABLE ANGLES

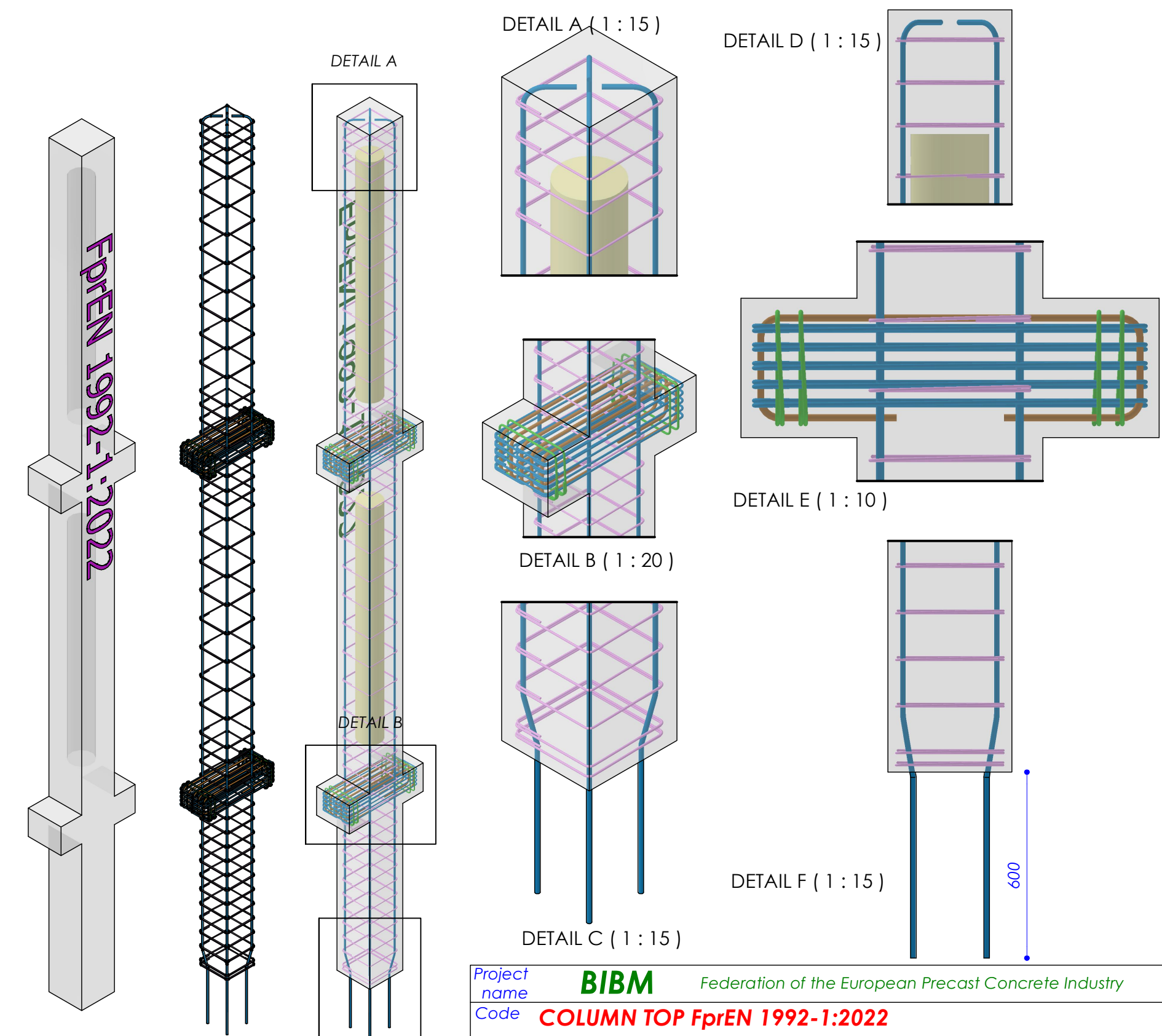


Thumbnail	Part Number	QTY	Mass	Mass Total	Ø_			
	04	4	18523	74092	18 mm			
	20	54	874	47196	8 mm			
	24	8	773	6184	10 mm			
	25	20	1329	26580	10 mm			
	26	10	2774	27740	16 mm			
	DYS_C_24	4	4781	19124				
Total mass rebars [kg]			200,92	Incidence kg/m³	142,70			
	lightening 1	1	6136	6136				
	lightening 2	1	7854	7854				
Total mass lightening [kg]			13,99	Incidence kg/m³	9,94			
Total mass of steel [kg]			200,92	Total concrete volume [m³]	1,408			





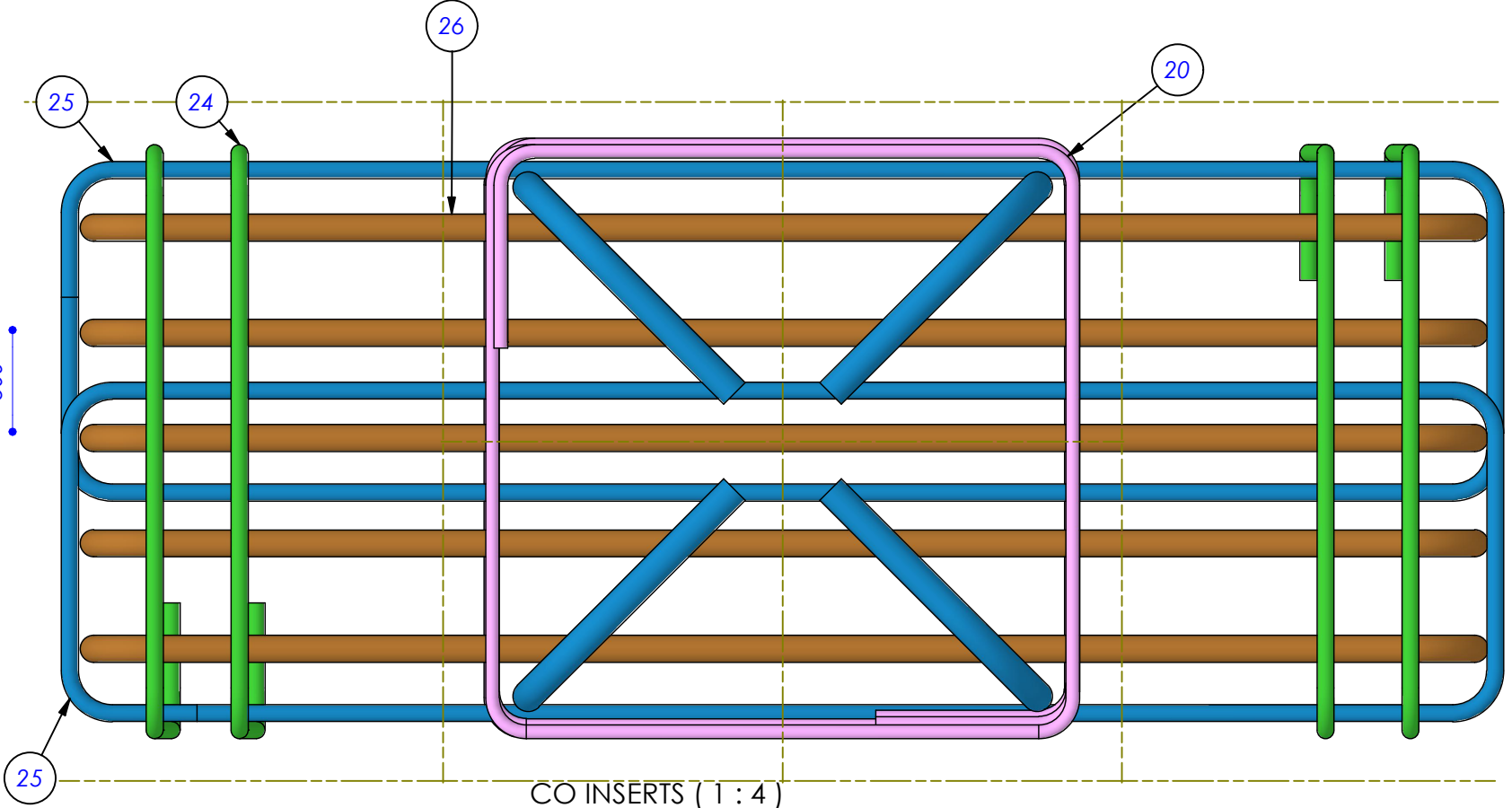
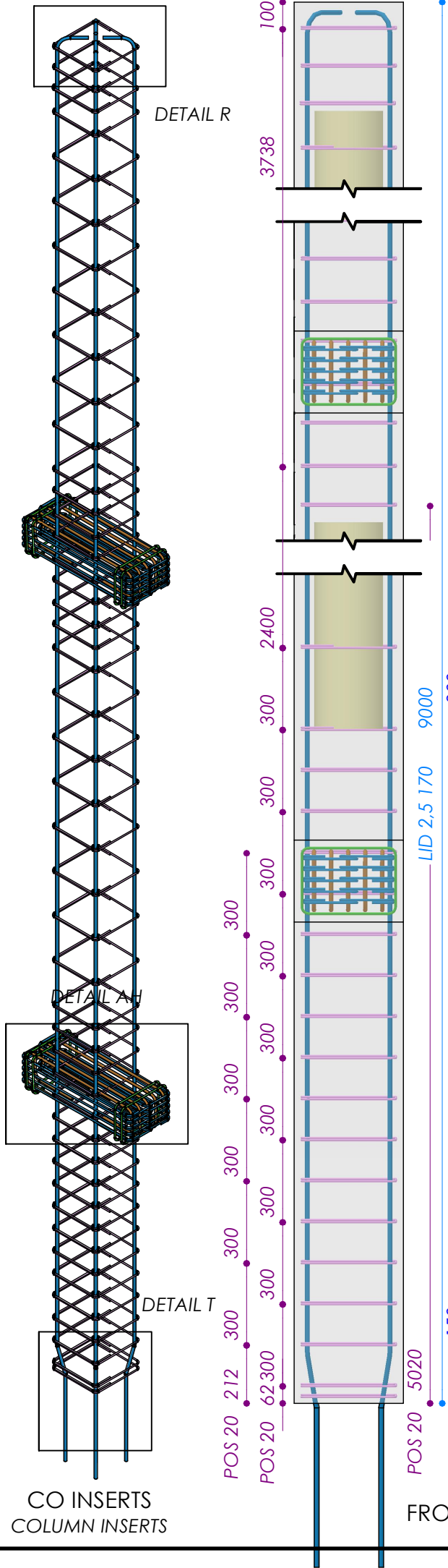
PART LIST				
QTY	CODE	DESCRIPTION	MASS	MATERIAL
45	20	BAR 8 STRAIGHT WITH 90° ANGLES	874 g	B450C
8	24	BAR 6 STRAIGHT WITH 90° ANGLES	773 g	B450C
20	25	BAR 6 STRAIGHT WITH 90° ANGLES	1329 g	B450C
10	26	BAR 5 STRAIGHT WITH 90° ANGLES	2774 g	B450C
4	04	BAR 4 STRAIGHT WITH VARIABLE ANGLES	19389 g	B450C



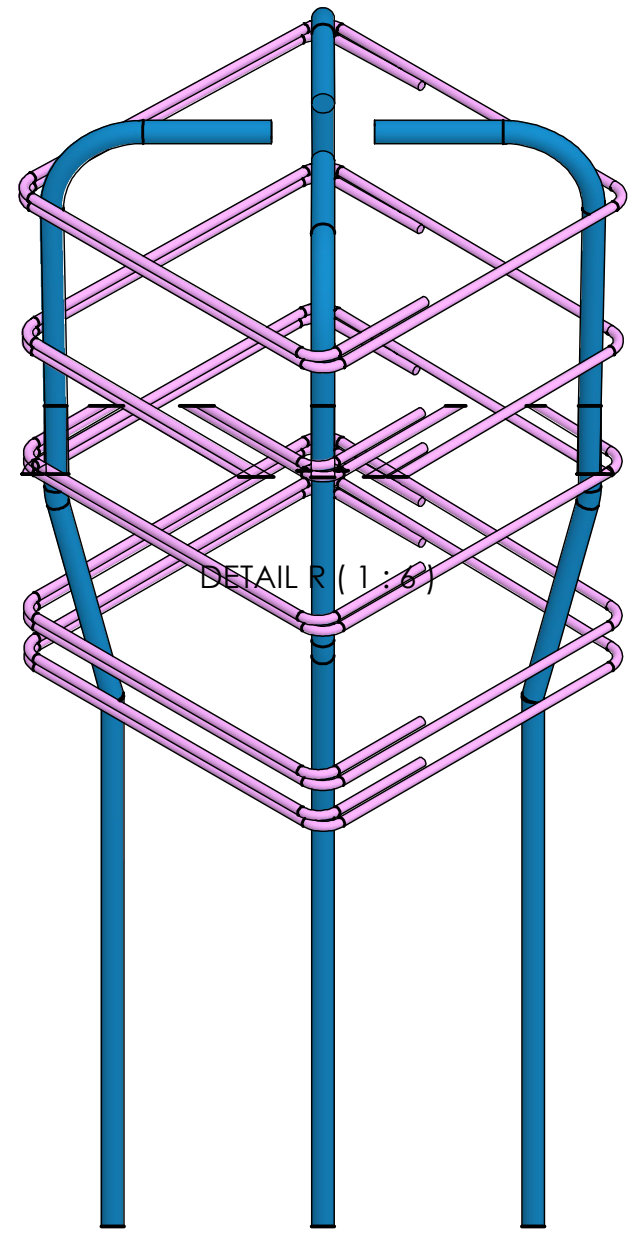
Project name: **BIBM** Federation of the European Precast Concrete Industry
 Code: **COLUMN TOP FprEN 1992-1:2022**

DYA DYS COLUMN

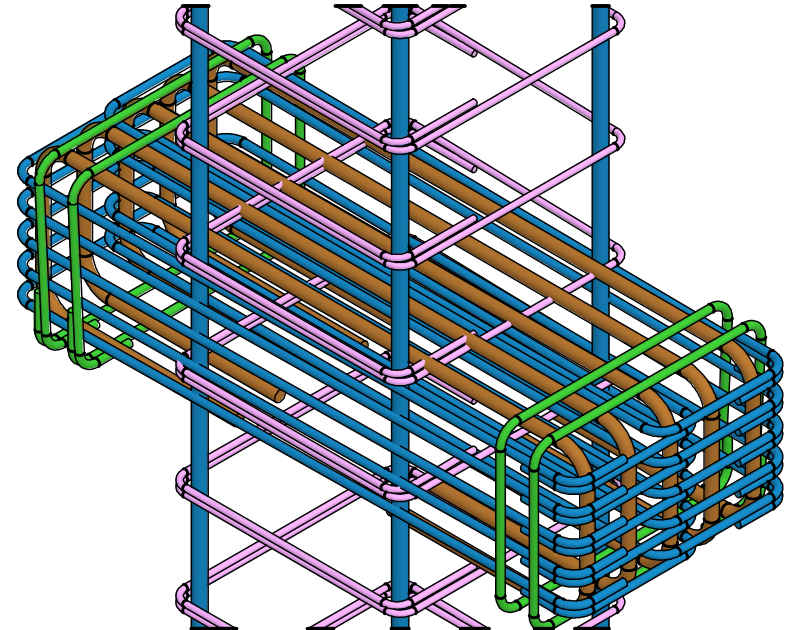
CODE	QTY	Ø (mm)	T _{total}	MASS	DESCRIPTION
20	45	8	202 cm	874 g	BAR 8 STRAIGHT WITH 90° ANGLES
24	8	10	126 cm	773 g	BAR 6 STRAIGHT WITH 90° ANGLES
25	20	10	216 cm	1329 g	BAR 6 STRAIGHT WITH 90° ANGLES
26	10	16	176 cm	2774 g	BAR 5 STRAIGHT WITH 90° ANGLES
04	4	18	965 cm	19389 g	BAR 4 STRAIGHT WITH VARIABLE ANGLES










CO INSERTS (1 : 4)

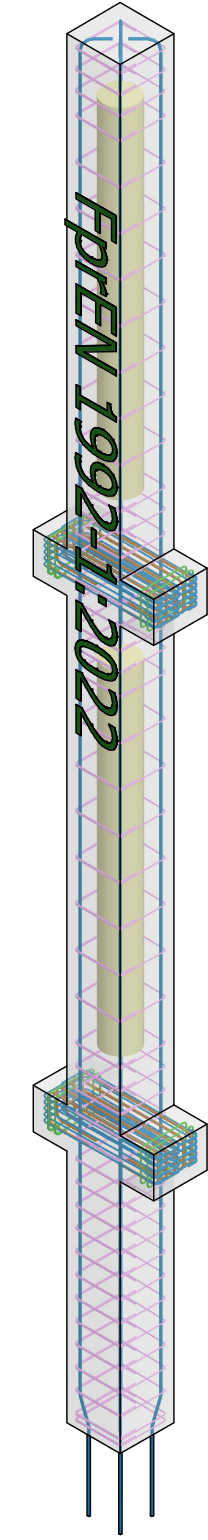


DETAIL T (1 : 6)

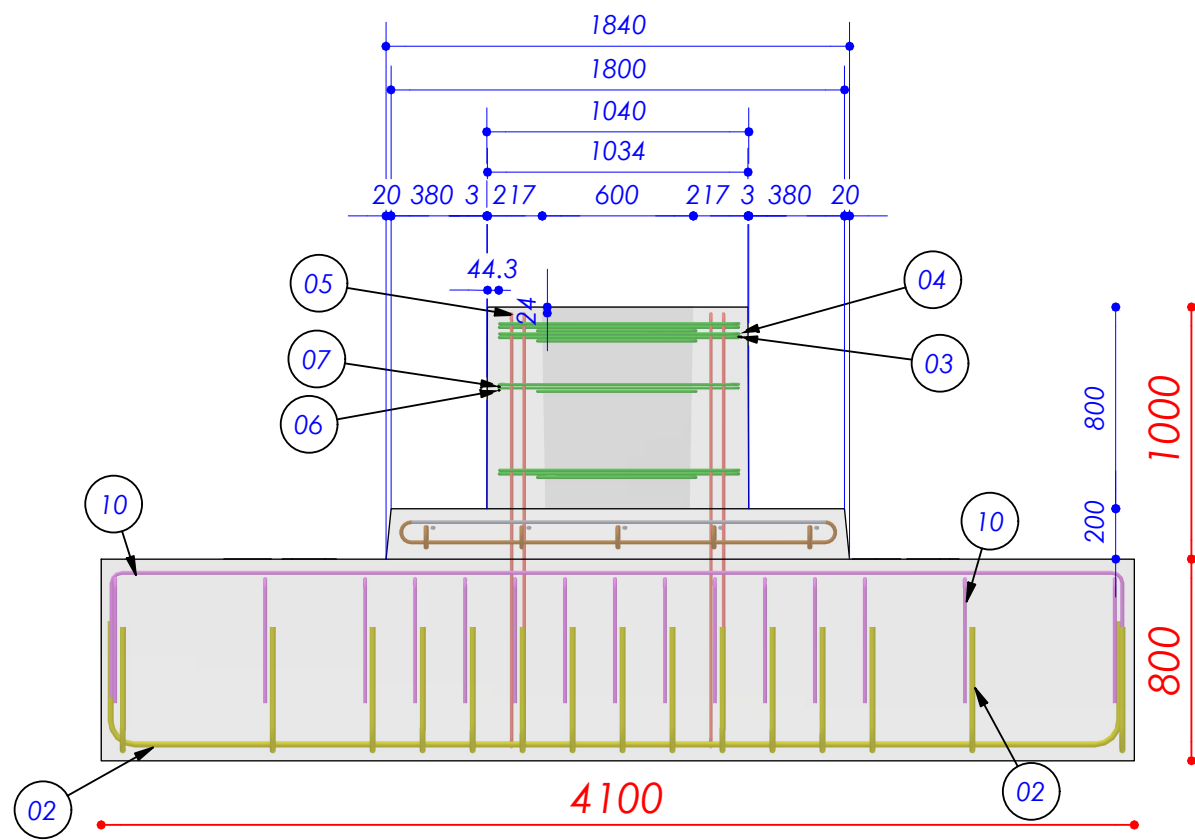


FRONT VIEW (1 : 20)

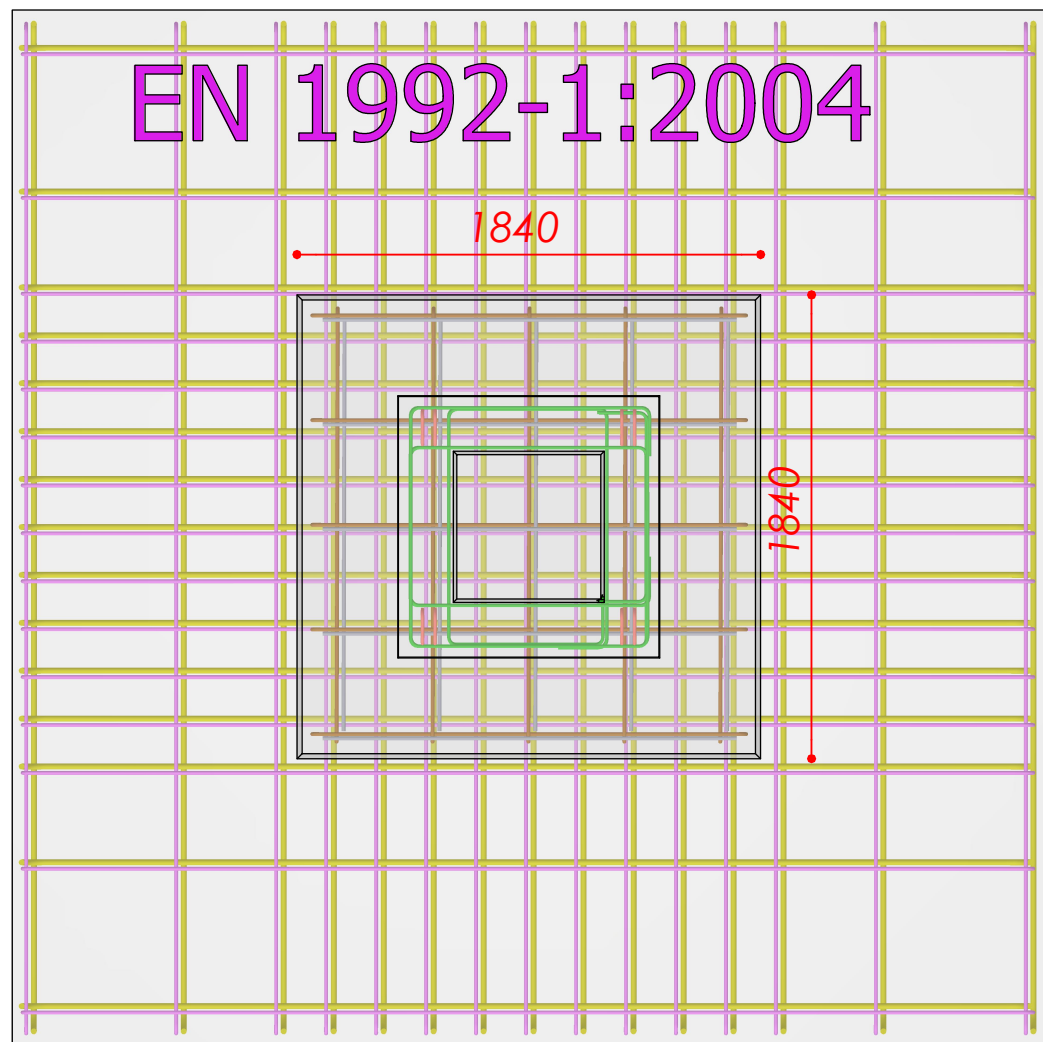
Thumbnail	Part Number	QTY	Mass	Total Mass	Ø_			
	04	4	19389	77556	18 mm			
	20	45	874	39330	8 mm			
	24	8	773	6184	10 mm			
	25	20	1329	26580	10 mm			
	26	10	2774	27740	16 mm			
Total mass rebars [kg]			177,39	Incidence kg/m³		135,21		
	lightening 1	1	6136	6136				
	lightening 2	1	6234	6234				
Total mass lightening [kg]			12,37	Incidence kg/m³		9,43		
Total mass of steel [kg]			177,39	Total concrete volume [m³]		1,312		



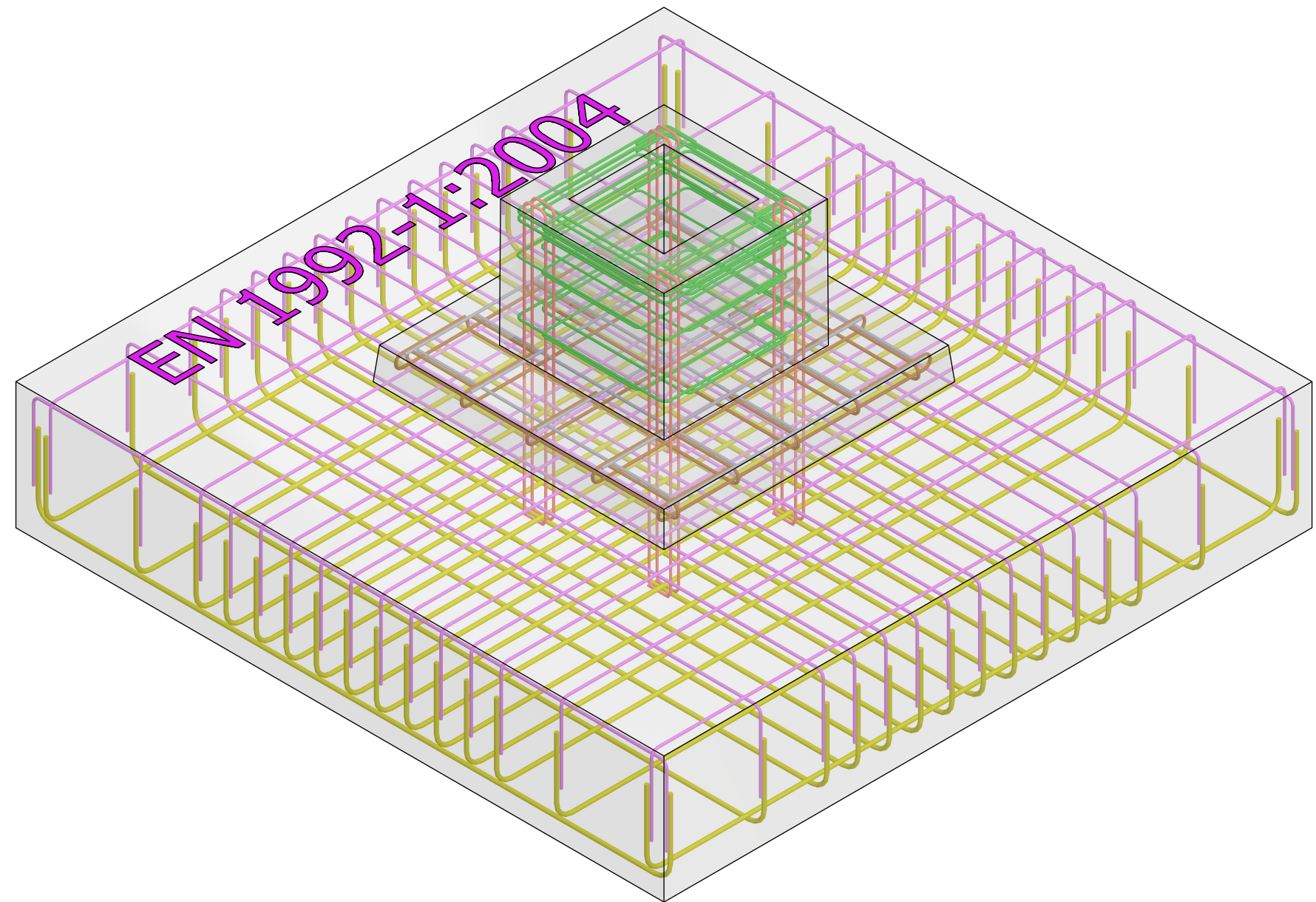
VIEW 107 (1 :40)



SIDE VIEW (1 : 30)



TOP VIEW (1 : 30)

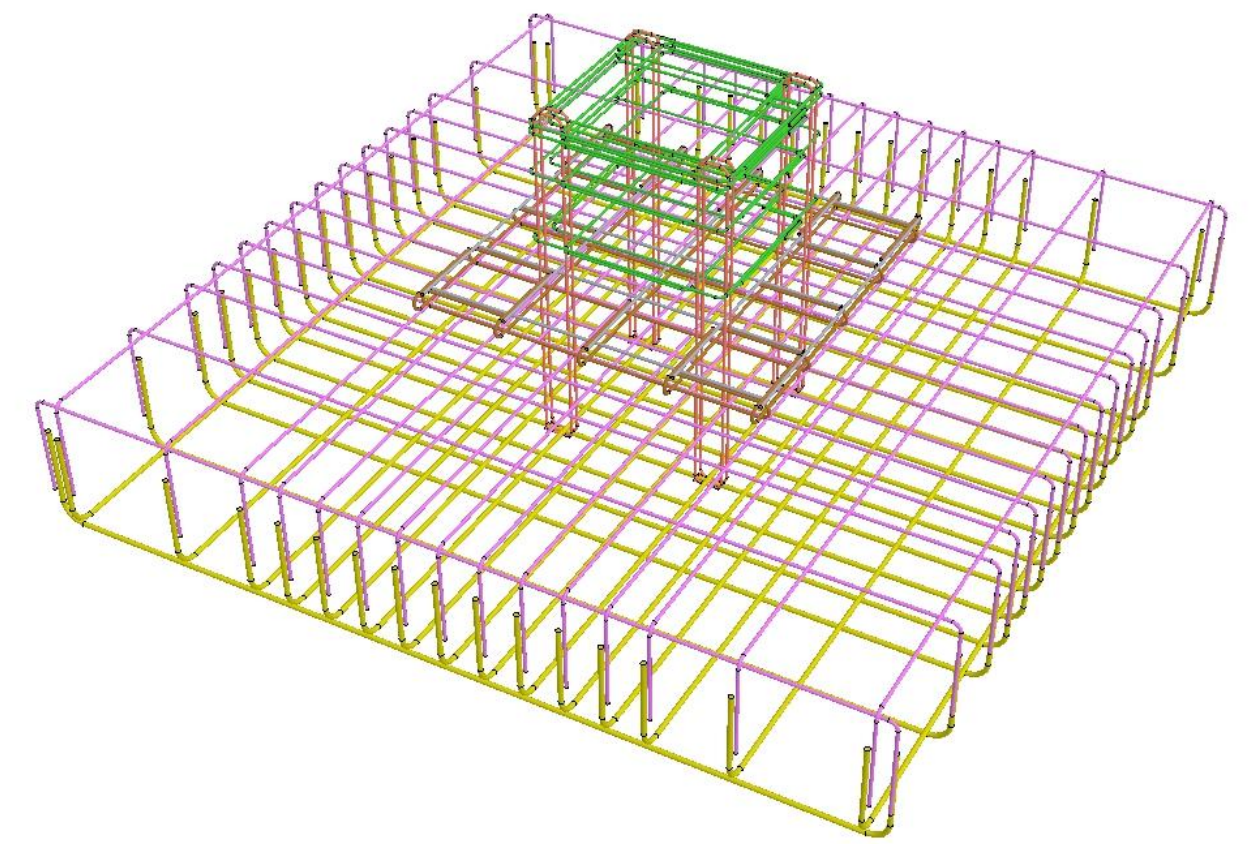
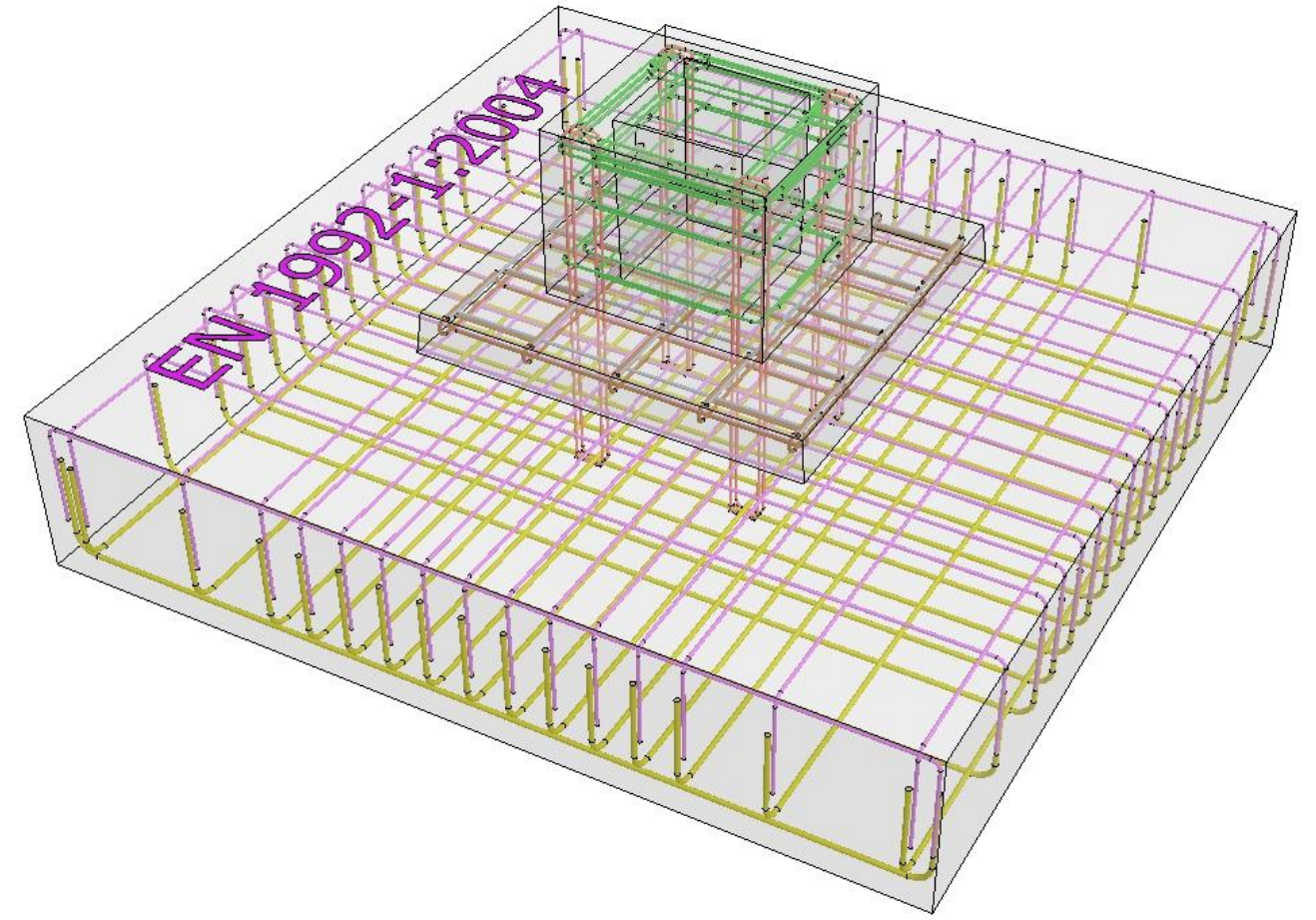


3D VIEW (1 : 25)

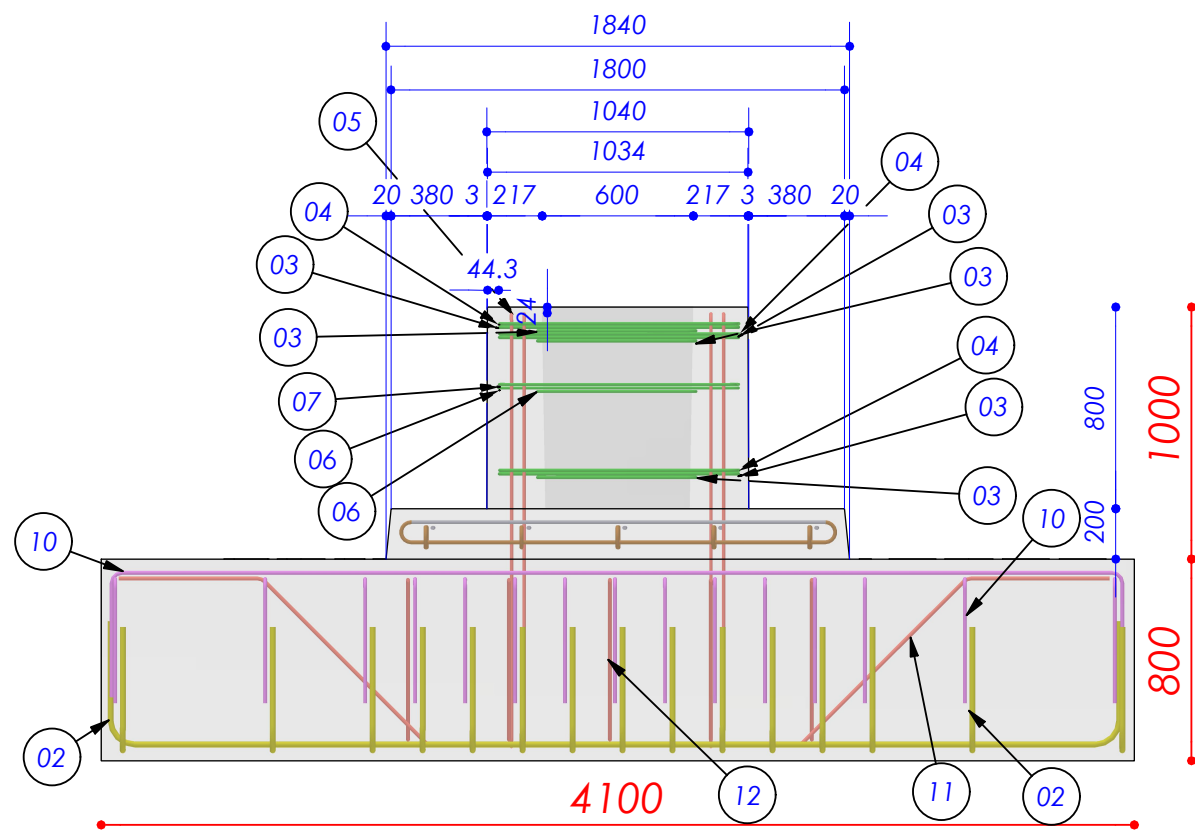
Project name **BIBM** Federation of the European Precast Concrete Industry
 Code **FOUNDATION FOOTING EN 1992-1:2004**

Thumbnail	Part Number	QTY	Mass	Total mass	Ø_
	02	31	17364	538284	24 mm
	03	6	4088	24528	14 mm
	04	3	4857	14571	14 mm
	05	8	4426	35408	14 mm
	06	2	3060	6120	12 mm
	07	1	3624	3624	12 mm
	08	10	4248	42480	16 mm
	09	10	2588	25880	16 mm
	10	30	7819	234570	16 mm

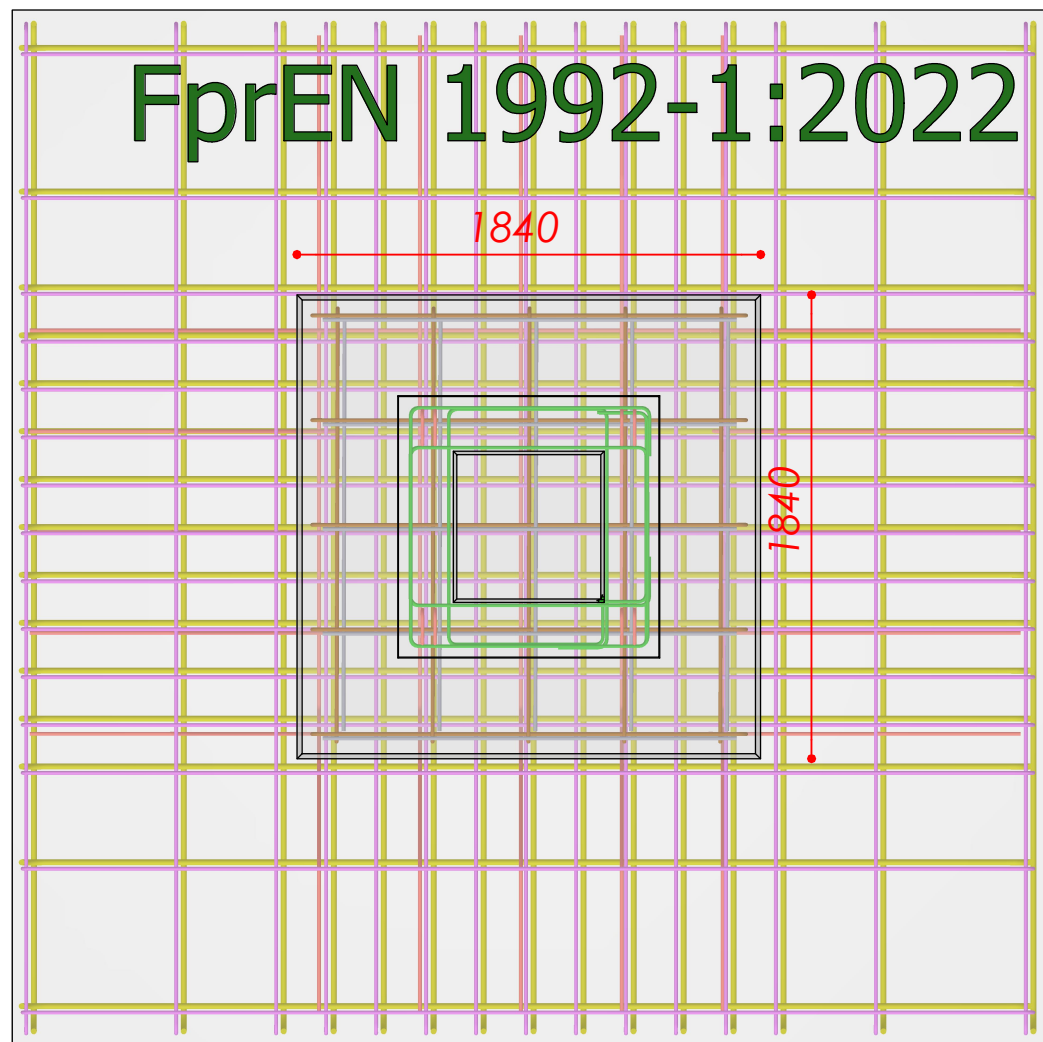
Total mass rebars [kg]		925,47	Incidence kg/m ³	62,97
Total mass of steel [kg]		925,47	Concrete volume [m ³]	1,248
			Cast in situ [m ³]	13,448
			Total concrete [m ³]	14,696



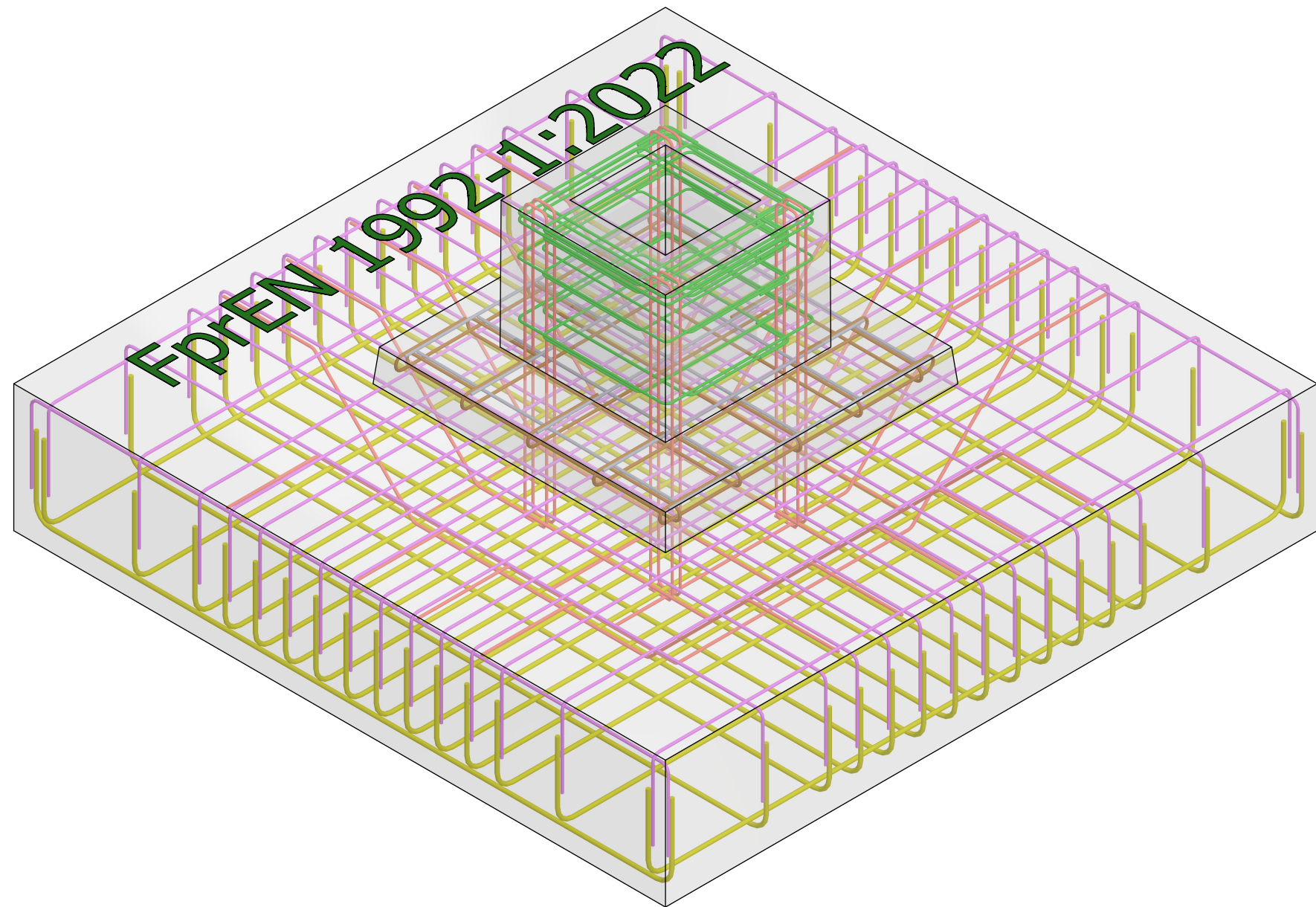
Project name	BIBM	Federation of the European Precast Concrete Industry
Code	FOUNDATION FOOTING EN 1992-1:2004	
		sheet number 2 of 2



SIDE VIEW (1 : 30)

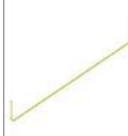
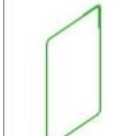
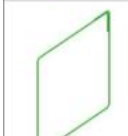


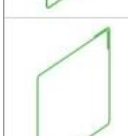
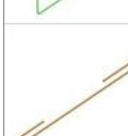
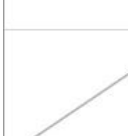





TOP VIEW (1 : 30)

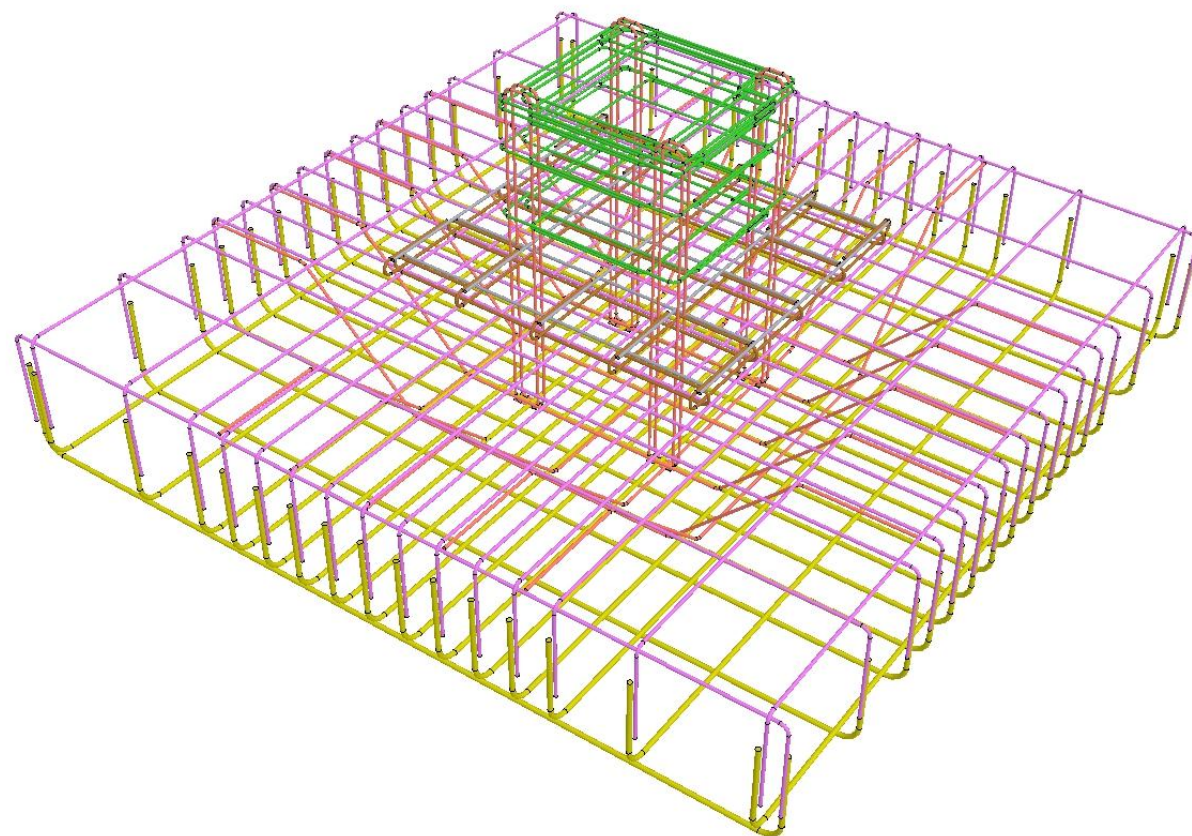
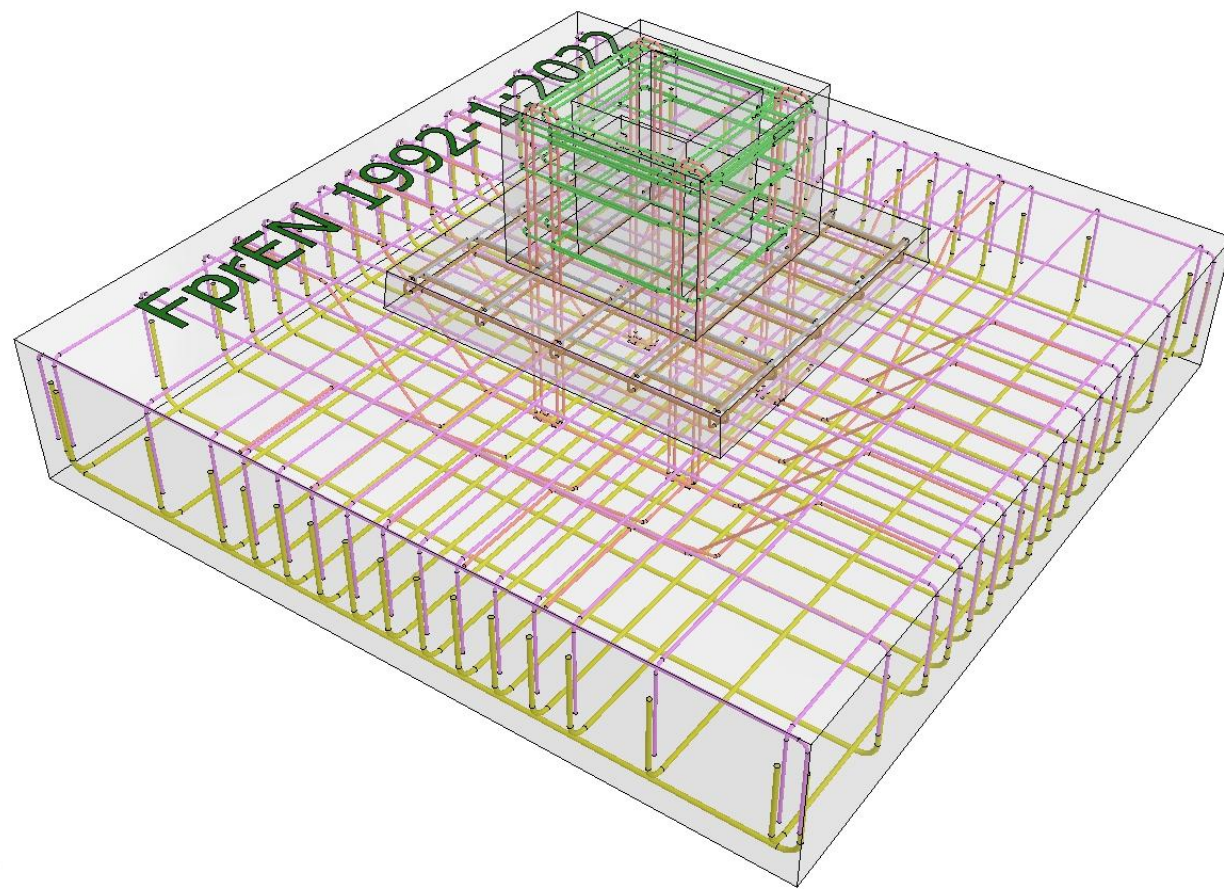


3D VIEW (1 : 25)

Project name **BIBM** Federation of the European Precast Concrete Industry
 Code **FOUNDATION FOOTING FprEN 1992-1:2022**

Thumbnail	Part Number	QTY	Mass	Total mass	Ø_
	02	30	17364	520920	24 mm
	03	6	4088	24528	14 mm
	04	3	4857	14571	14 mm
	05	8	4426	35408	14 mm
	06	2	3060	6120	12 mm
	07	1	3624	3624	12 mm
	08	10	4248	42480	16 mm
	09	10	2588	25880	16 mm
	10	30	7819	234570	16 mm
	11	5	7048	35240	16 mm
	12	5	6922	34610	16 mm

Total mass rebars [kg]		977,95	Incidence kg/m³	66,55
Total mass of steel [kg]		977,95	Concrete volume [m³]	1,248
			Cast in situ [m³]	13,448
			Total concrete [m³]	14,696



Project name **BIBM** Federation of the European Precast Concrete Industry
Code **FOUNDATION FOOTING FprEN 1992-1:2022**



sheet number **2 of 2**