

Appendix 2

Certificate Number: 762c Issue: 08

Issued to: Promat Research and Technology Centre NV

For: Cafco 300 and PROMASPRAY P300

Required applied thickness (dft) in millimetres (mm) of Cafco 300 and PROMASPRAY P300 for hollow section beams and columns

This appendix forms part of Certificate Number 762c, Issue 08, issued to:

**Promat Research and Technology Centre NV
Bormstraat 24
2830 Tiselt
Belgium**

on 31 July 2018

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Table 1 Required thickness of Cafco® 300 and PROMASPRAY® P300 for a fire resistance period of 30 minutes

Section factor (m ⁻¹)	Design temperature (°C)								
	350	400	450	500	550	600	620	650	700
30	12	12	12	12	12	12	12	12	12
40	12	12	12	12	12	12	12	12	12
50	12	12	12	12	12	12	12	12	12
60	12	12	12	12	12	12	12	12	12
70	12	12	12	12	12	12	12	12	12
80	12	12	12	12	12	12	12	12	12
90	12	12	12	12	12	12	12	12	12
100	12	12	12	12	12	12	12	12	12
110	12	12	12	12	12	12	12	12	12
120	13	13	12	12	12	12	12	12	12
130	13	13	12	12	12	12	12	12	12
140	14	14	13	12	12	12	12	12	12
150	14	14	13	12	12	12	12	12	12
160	14	15	13	12	12	12	12	12	12
170	15	15	14	12	12	12	12	12	12
180	15	15	14	13	12	12	12	12	12
190	15	16	14	13	12	12	12	12	12
200	16	16	15	13	12	12	12	12	12
210	16	16	15	13	12	12	12	12	12
220	16	17	15	14	12	12	12	12	12
230	17	17	15	14	12	12	12	12	12
240	17	17	16	14	13	12	12	12	12
250	17	17	16	14	13	12	12	12	12
260	17	18	16	14	13	12	12	12	12
270	17	18	16	15	13	12	12	12	12
280	18	18	16	15	13	12	12	12	12
290	18	18	16	15	13	12	12	12	12
300	18	18	17	15	13	12	12	12	12
310	18	18	17	15	13	12	12	12	12

Table 2 Required thickness of Cafco® 300 and PROMASPRAY® P300 for a fire resistance period of 60 minutes

Section factor (m ⁻¹)	Design temperature (°C)								
	350	400	450	500	550	600	620	650	700
30	12	12	12	12	12	12	12	12	12
40	13	12	12	12	12	12	12	12	12
50	14	13	12	12	12	12	12	12	12
60	16	15	13	12	12	12	12	12	12
70	17	16	15	13	12	12	12	12	12
80	18	17	16	14	13	12	12	12	12
90	19	18	17	15	14	12	12	12	12
100	20	19	17	16	14	13	12	12	12
110	21	20	18	17	15	14	13	12	12
120	22	20	19	17	16	14	14	13	12
130	23	21	20	18	16	15	14	13	12
140	24	22	20	18	17	15	15	14	12
150	24	23	21	19	17	16	15	14	12
160	25	23	21	20	18	16	16	15	12
170	25	24	22	20	18	17	16	15	12
180	26	24	23	21	19	17	16	15	12
190	27	25	23	21	19	17	17	16	13
200	27	25	24	21	20	18	17	16	13
210	28	26	24	22	20	18	17	16	13

Section factor (m ⁻¹)	Design temperature (°C)								
	350	400	450	500	550	600	620	650	700
220	28	26	24	22	20	18	18	17	13
230	29	27	25	23	21	19	18	17	14
240	29	27	25	23	21	19	18	17	14
250	30	28	26	24	22	19	19	17	14
260	30	28	26	24	22	20	19	18	14
270	30	28	26	24	22	20	19	18	14
280	30	28	26	24	22	20	19	18	14
290	30	29	26	24	22	20	19	18	15
300	31	29	27	24	22	20	19	18	15
310	31	29	27	25	22	20	20	18	15

Table 3 Required thickness of Caeco® 300 and PROMASPRAY® P300 for a fire resistance period of 90 minutes

Section factor (m ⁻¹)	Design temperature (°C)								
	350	400	450	500	550	600	620	650	700
30	15	13	12	12	12	12	12	12	12
40	18	16	14	13	12	12	12	12	12
50	20	18	17	15	14	13	12	12	12
60	22	20	18	17	15	14	13	13	12
70	24	22	20	18	17	15	15	14	12
80	26	23	21	20	18	17	16	15	13
90	28	24	23	21	19	18	17	16	14
100	29	26	24	22	20	19	18	17	14
110	30	27	25	23	21	19	19	18	15
120	31	28	26	24	22	20	19	18	16
130	32	29	27	25	23	21	20	19	16
140	33	30	28	26	24	22	21	20	17
150	34	31	29	26	24	22	21	20	18
160	35	32	30	27	25	23	22	21	18
170	36	33	30	28	26	24	23	22	19
180	37	33	31	29	26	24	23	22	19
190	38	34	32	29	27	25	24	23	20
200	39	35	32	30	28	25	24	23	20
210	39	35	33	31	28	26	25	24	20
220	40	36	34	31	29	26	25	24	21
230	41	37	34	32	29	27	26	24	21
240	41	37	35	32	30	27	26	25	22
250	42	38	35	33	30	28	27	25	22
260	42	38	36	33	31	28	27	25	22
270	43	39	36	33	31	28	27	26	22
280	43	39	36	34	31	28	27	26	23
290	43	39	37	34	31	28	28	26	23
300	43	39	37	34	31	29	28	26	23
310	44	40	37	34	32	29	28	26	23

Table 4 Required thickness of Caeco® 300 and PROMASPRAY® P300 for a fire resistance period of 120 minutes

Section factor (m ⁻¹)	Design temperature (°C)								
	350	400	450	500	550	600	620	650	700
30	19	16	15	14	13	12	12	12	12
40	23	20	18	17	15	14	14	13	12
50	26	23	21	19	18	17	16	15	13
60	29	25	23	21	20	18	17	17	15
70	32	27	25	23	22	20	19	18	16
80	34	29	27	25	23	22	21	20	17
90	36	31	29	27	25	23	22	21	18
100	37	33	31	28	26	24	23	22	19
110	39	34	32	29	27	25	24	23	20
120	41	36	33	31	28	26	25	24	21
130	42	37	34	32	29	27	26	25	22
140	43	38	36	33	30	28	27	26	23
150	45	39	37	34	31	29	28	27	24
160	46	40	38	35	32	30	29	27	25
170	47	41	39	36	33	31	29	28	25
180	48	42	40	37	34	31	30	29	26
190	49	43	40	38	35	32	31	29	27
200	50	44	41	38	36	33	32	30	27
210	51	45	42	39	36	33	32	31	28
220	52	46	43	40	37	34	33	31	28
230	53	47	44	41	38	35	34	32	29
240	54	48	45	41	38	35	34	33	30
250	54	48	45	42	39	36	35	33	30
260	55	49	46	42	39	36	35	33	30
270	55	49	46	43	40	36	35	34	31
280	55	49	46	43	40	37	36	34	31
290	56	50	47	43	40	37	36	34	31
300	56	50	47	44	41	37	36	34	31
310	56	50	47	44	41	37	36	35	32

Table 5 Required thickness of Caeco® 300 and PROMASPRAY® P300 for a fire resistance period of 180 minutes

Section factor (m ⁻¹)	Design temperature (°C)								
	350	400	450	500	550	600	620	650	700
30	28	23	21	20	18	17	16	16	14
40	33	28	26	24	22	21	20	19	17
50	38	32	30	27	25	24	23	22	20
60	42	36	33	31	28	27	25	25	22
70	46	39	36	33	31	29	28	27	24
80	49	42	39	36	33	31	30	29	26
90	52	44	41	38	36	33	32	31	28
100	54	47	44	40	38	35	34	32	30
110	57	49	46	42	39	37	35	34	31
120	59	51	48	44	41	38	37	35	33
130	61	53	49	46	43	40	38	37	34
140	63	54	51	47	44	41	39	38	35
150	65	56	52	49	45	42	41	39	37
160	66	57	54	50	47	44	42	40	38
170	68	59	55	52	48	45	43	41	39
180	70	60	57	53	49	46	44	42	40
190	71	62	58	54	50	47	45	43	41
200	-	63	59	55	52	48	46	44	42
210	-	64	60	56	53	49	47	45	43

Section factor (m ⁻¹)	Design temperature (°C)								
	350	400	450	500	550	600	620	650	700
220	-	65	61	57	54	50	48	46	44
230	-	67	63	59	55	51	49	47	44
240	-	68	64	60	56	52	50	48	45
250	-	69	65	61	57	52	51	49	46
260	-	69	65	61	57	53	51	49	47
270	-	70	66	62	58	53	52	49	47
280	-	70	66	62	58	54	52	50	47
290	-	71	67	62	58	54	52	50	48
300	-	71	67	63	59	54	53	50	48
310	-	72	67	63	59	55	53	51	48

Table 6 Required thickness of Cafero® 300 and PROMASPRAY® P300 for a fire resistance period of 240 minutes

Section factor (m ⁻¹)	Design temperature (°C)								
	350	400	450	500	550	600	620	650	700
30	36	30	28	25	24	22	21	21	19
40	44	36	34	31	29	27	26	25	23
50	50	42	39	36	33	31	30	29	27
60	55	46	43	40	37	35	33	32	30
70	60	50	47	44	41	38	36	35	33
80	64	54	51	47	44	41	39	38	35
90	68	57	54	50	47	44	42	40	38
100	71	60	57	53	49	46	44	43	40
110	-	63	59	55	51	48	46	45	42
120	-	66	62	58	54	50	48	47	44
130	-	68	64	60	56	52	50	48	46
140	-	70	66	62	58	54	52	50	48
150	-	-	68	64	60	56	54	52	49
160	-	-	70	65	61	57	55	53	51
170	-	-	72	67	63	59	57	55	52
180	-	-	-	69	64	60	58	56	54
190	-	-	-	71	66	62	59	57	55
200	-	-	-	72	67	63	61	59	56
210	-	-	-	-	69	64	62	60	57
220	-	-	-	-	70	65	63	61	59
230	-	-	-	-	72	67	64	62	60
240	-	-	-	-	-	68	66	63	61
250	-	-	-	-	-	69	67	64	62
260	-	-	-	-	-	70	67	65	63
270	-	-	-	-	-	70	68	65	63
280	-	-	-	-	-	71	68	66	64
290	-	-	-	-	-	71	69	66	64
300	-	-	-	-	-	72	69	67	65
310	-	-	-	-	-	72	70	67	65