

PLAKA - ISOTEC
Structural thermal break

REF 01.03.01 - Version V03 - 21/08/2026


Description


ISOTEC is a structural thermal break element comprising an insulation core crossed by stainless steel reinforcement bars. These reinforcements ensure the safe transfer of forces between the external concrete component and the supporting structure, including bending moments, tension, compression and shear loads. By combining thermal insulation continuity with outstanding structural performance, ISOTEC offers a highly stable and rigid solution for thermally separated concrete connections.

Application fields

- Significant reduction of thermal bridging between the building's load-bearing structure and external building components, such as:
 - Balconies
 - Cantilever slabs and brackets
 - Concrete walls
 - Canopies
 - Concrete cornices
- Prevention of condensation and its adverse effects, including mould growth, moisture-related issues, and reduced indoor comfort.

Properties

Insulation material – Mineral wool		
Thickness	80 mm or 120 mm	
Density	$\geq 120 \text{ kg/m}^3$	
Thermal conductivity λ	0,038 W/m.K (80 mm) 0,037 W/m.K (120 mm)	NBN EN 12667
EUROCLASS fire behaviour	A1	NBN EN 13501-1
Short-term water absorption by partial immersion	WS	EN 1609
Long-term water absorption by partial immersion	WL(P)	EN 12087

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Insulation material – PIR		
Thickness	80 mm ou 120 mm	
Density	33 à 50 kg/m³	EN ISO 845
Thermal conductivity λ		
Declared initial value	0,021 W/m.K	EN 14308
Value after ageing (25 weeks at 70°C)	0,023 à 0,026 W/m.K (10 à 40°C)	
EUROCLASS fire behaviour	D/D _L , s ₃ , d ₀	NBN EN 13501-1
Tension/Compression reinforcement and diagonal bars		
Diameter	6 mm, 8 mm, 10 mm, 12 mm Other diameters available upon request	
Density	7860 kg/m³	
Thermal conductivity λ	15,0 W/m.K	
Steel grade	Stainless steel 1.4301 or 1.4362	
(Other stainless steel grades available upon request)		
Yield strength R _{p,0.2}	500 N/mm²	
Tensile strength R _m	550 N/mm²	
Compression studs with forged heads		
Finishing	Smooth bars	
Diamètre goujon	12 mm	
Diamètre têtes forgées	44 mm	
Longueur totale	110 mm (insulation 80mm) / 150 mm (insulation 120 mm)	
Density	7860 kg/m³	
Thermal conductivity λ	15,0 W/m.K	
Steel grade	Acier inoxydable 1.4301	
Yield strength R _{p,0.2}	550 N/mm²	EN ISO 377
Tensile strength R _m	750 N/mm²	EN ISO 377

The type and diameter of the tension/compression bars are determined during the structural design and dimensioning of the ISOTEC elements.

Dimensions

Anchorage and lap lengths				
Diameter [mm]	C25/30		C30/37	
	Anchorage length	Lap length	Anchorage length	Lap length
	L _{b,rqd} [mm]	L _o [mm]	L _{b,rqd} [mm]	L _o [mm]
6	242	363	214	322
8	323	484	286	429
10	404	605	357	536
12	484	726	429	643
14	565	848	500	751
16	646	969	572	858

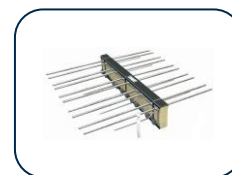
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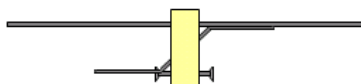
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Models

Type ACTP-MV-080

Standard models


Concrete class
C25/30


Insulation

Type	1	2	3	4	5	6	7	8	9	10	11	32	33	34	35	36	37	38	39
Top	4Φ8	6Φ8	6Φ8	8Φ8	8Φ8	10Φ8	6Φ10	6Φ12	10Φ10	8Φ12	12Φ10	10Φ12	10Φ12	16Φ10	16Φ10	12Φ12	12Φ12	14Φ12	14Φ12
Diag. (+)	4Φ6	4Φ6	6Φ6	4Φ6	6Φ6	4Φ8	6Φ8	4Φ8	6Φ8	4Φ8	6Φ8	4Φ8	6Φ8	8Φ8	10Φ10	6Φ8	8Φ8	6Φ8	8Φ8
Diag. (-)	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
Bottom	4Φ12	4Φ12	4Φ12	6Φ12	6Φ12	6Φ12	6Φ12	8Φ12	8Φ12	10Φ12	10Φ12	14Φ12	14Φ12	16Φ12	18Φ12	18Φ12	18Φ12	18Φ12	18Φ12

V _{Rd} [kN]	1	2	3	4	5	6	7	8	9	10	11	32	33	34	35	36	37	38	39
160	30,81	30,81	46,22	30,81	46,22	45,69	68,53	45,69	68,53	45,69	68,53	45,69	68,53	91,37		68,53	91,37	68,53	91,37
170	30,81	30,81	46,22	30,81	46,22	45,68	68,53	45,68	68,53	45,68	68,53	45,68	68,53	91,37	172,53	68,53	91,37	68,53	91,37
180	34,77	34,77	52,16	34,77	52,16	54,78	82,18	54,78	82,18	54,78	82,18	54,78	82,18	109,57	172,52	82,18	109,57	82,18	109,57
190	34,77	34,77	52,16	34,77	52,16	54,78	82,17	54,78	82,17	54,78	82,17	54,78	82,17	109,56	206,89	82,17	109,56	82,17	109,56
200	34,77	34,77	52,16	34,77	52,16	61,81	92,72	61,81	92,72	61,81	92,72	61,81	92,72	123,63	206,89	92,72	123,63	92,72	123,63
210	34,77	34,77	52,16	34,77	52,16	61,81	92,72	61,81	92,72	61,81	92,72	61,81	92,72	123,63	241,46	92,72	123,63	92,72	123,63
220	34,77	34,77	52,16	34,77	52,16	61,81	92,72	61,81	92,72	61,81	92,72	61,81	92,72	123,63	241,46	92,72	123,63	92,72	123,63
230	34,77	34,77	52,16	34,77	52,16	61,81	92,72	61,81	92,72	61,81	92,72	61,81	92,72	123,63	241,46	92,72	123,63	92,72	123,63
240	34,77	34,77	52,16	34,77	52,16	61,81	92,72	61,81	92,72	61,81	92,72	61,81	92,72	123,63	241,46	92,72	123,63	92,72	123,63
250	34,77	34,77	52,16	34,77	52,16	61,81	92,72	61,81	92,72	61,81	92,72	61,81	92,72	123,63	241,46	92,72	123,63	92,72	123,63

M _{Rd} [kNm]	1	2	3	4	5	6	7	8	9	10	11	32	33	34	35	36	37	38	39
160	6,91	10,42	10,37	13,92	13,87	17,86	16,49	23,34	21,1	28,97	26,79	37,89	35,34	39,41		47,1	44,55	47,1	44,55
170	7,86	11,75	11,79	15,64	15,68	20,11	18,74	26,26	23,87	32,53	30,2	42,37	39,66	44,27	40,91	52,73	50,02	52,73	50,02
180	8,47	12,75	12,71	17,03	16,99	21,84	20,22	28,76	26	35,67	32,97	46,41	43,34	48,27	45,85	57,72	54,65	57,72	54,65
190	9,41	14,08	14,11	18,74	18,78	24,08	22,46	31,69	28,78	39,23	36,39	50,89	47,67	53,13	49,2	63,36	60,14	63,36	60,14
200	10,34	15,4	15,51	20,46	20,57	25,69	23,76	34,52	31,41	42,7	39,66	55,28	51,86	57,81	54,15	68,85	65,43	68,85	65,43
210	11,28	16,72	16,91	22,17	22,36	27,91	25,97	37,46	34,22	46,29	43,11	59,78	56,22	62,71	57,91	74,52	70,96	74,52	70,96
220	12,21	18,05	18,32	23,88	24,15	30,14	28,19	40,41	37,03	49,88	46,55	64,28	60,58	67,62	62,91	80,18	76,49	80,18	76,49
230	13,15	19,37	19,72	25,59	25,94	32,36	30,4	43,36	39,83	53,46	50	68,77	64,94	72,52	67,91	85,85	82,02	85,85	82,02
240	14,08	20,69	21,12	27,31	27,73	34,58	32,62	46,31	42,64	57,05	53,45	73,27	69,3	77,42	72,9	91,52	87,55	91,52	87,55
250	15,01	22,02	22,52	29,02	29,52	36,81	34,84	49,25	45,45	60,64	56,9	77,77	73,66	82,33	77,9	97,18	93,07	97,18	93,07

Notes:

- The V_{Rd} and M_{Rd} values indicated above correspond to Ultimate Limit State (ULS) resistances.
- The M_{Rd} bending moments indicated above have been determined assuming an applied shear force V_{Ed} equal to the corresponding V_{Rd} value shown in the table. When the applied shear force V_{Ed} is lower than the corresponding V_{Rd} value, the bending moment resistance M_{Rd} may be higher than the values indicated in the tables.
- Elements whose resistance values are highlighted in green in the table are normally available from stock.
- The table above is not intended to be exhaustive and only presents the standard elements. Other ISOTEC elements can be defined upon request or adapted to suit specific project requirements and configurations.

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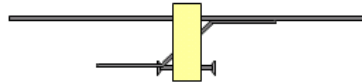
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Type ACTP-MV-080

Standard models



Concrete class
C30/37



Insulation

Type	1	2	3	4	5	6	7	8	9	10	11	32	33	34	35	36	37	38	39
Top	4Φ8	6Φ8	6Φ8	8Φ8	8Φ8	10Φ8	6Φ10	6Φ12	10Φ10	8Φ12	12Φ10	10Φ12	10Φ12	16Φ10	16Φ10	12Φ12	12Φ12	14Φ12	14Φ12
Diag. (+)	4Φ6	4Φ6	6Φ6	4Φ6	6Φ6	4Φ8	6Φ8	4Φ8	6Φ8	4Φ8	6Φ8	4Φ8	6Φ8	8Φ8	10Φ10	6Φ8	8Φ8	6Φ8	8Φ8
Diag. (-)	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
Bottom	4Φ12	4Φ12	4Φ12	6Φ12	6Φ12	6Φ12	6Φ12	8Φ12	8Φ12	10Φ12	10Φ12	14Φ12	14Φ12	16Φ12	18Φ12	18Φ12	18Φ12	18Φ12	18Φ12

V _{Rd} [kN]	1	2	3	4	5	6	7	8	9	10	11	32	33	34	35	36	37	38	39
160	31,61	31,61	47,41	31,61	47,41	50,14	75,21	50,14	75,21	50,14	75,21	50,14	75,21	100,28		75,21	100,28	75,21	100,28
170	31,61	31,61	47,41	31,61	47,41	50,14	75,21	50,14	75,21	50,14	75,21	50,14	75,21	100,28	194,09	75,21	100,28	75,21	100,28
180	34,77	34,77	52,16	34,77	52,16	56,19	84,29	56,19	84,29	56,19	84,29	56,19	84,29	112,38	194,09	84,29	112,38	84,29	112,38
190	34,77	34,77	52,16	34,77	52,16	56,19	84,29	56,19	84,29	56,19	84,29	56,19	84,29	112,38	219,5	84,29	112,38	84,29	112,38
200	34,77	34,77	52,16	34,77	52,16	61,81	92,72	61,81	92,72	61,81	92,72	61,81	92,72	123,63	219,5	92,72	123,63	92,72	123,63
210	34,77	34,77	52,16	34,77	52,16	61,81	92,72	61,81	92,72	61,81	92,72	61,81	92,72	123,63	241,46	92,72	123,63	92,72	123,63
220	34,77	34,77	52,16	34,77	52,16	61,81	92,72	61,81	92,72	61,81	92,72	61,81	92,72	123,63	241,46	92,72	123,63	92,72	123,63
230	34,77	34,77	52,16	34,77	52,16	61,81	92,72	61,81	92,72	61,81	92,72	61,81	92,72	123,63	241,46	92,72	123,63	92,72	123,63
240	34,77	34,77	52,16	34,77	52,16	61,81	92,72	61,81	92,72	61,81	92,72	61,81	92,72	123,63	241,46	92,72	123,63	92,72	123,63
250	34,77	34,77	52,16	34,77	52,16	61,81	92,72	61,81	92,72	61,81	92,72	61,81	92,72	123,63	241,46	92,72	123,63	92,72	123,63

M _{Rd} [kNm]	1	2	3	4	5	6	7	8	9	10	11	32	33	34	35	36	37	38	39
160	7,78	11,71	11,67	15,64	15,6	20,06	18,54	26,29	26,1	34,94	32,93	44,64	43,19	48,35		53,69	53,89	57,3	54,5
170	8,82	13,19	13,24	17,57	17,61	22,58	21,06	29,57	29,47	39,21	37,06	49,9	48,42	54,23	50,63	60,09	60,45	64,11	61,14
180	9,53	14,34	14,29	19,15	19,1	24,49	22,68	32,25	32,8	42,88	41,16	54,54	53,62	60,07	56,64	65,59	65,81	70,87	67,72
190	10,56	15,8	15,84	21,05	21,08	26,98	25,17	35,51	36,21	47,12	45,34	59,77	58,89	66,01	62,43	71,95	72,33	77,71	74,41
200	11,59	17,27	17,39	22,95	23,07	28,81	26,66	38,11	39,73	50,7	49,63	64,33	64,28	71,53	68,53	77,31	77,51	84,67	81,25
210	12,62	18,74	18,93	24,86	25,05	31,28	29,1	41,34	43,19	54,91	53,85	69,52	69,6	77,48	75,07	83,63	83,97	91,55	88
220	13,65	20,21	20,48	26,76	27,03	33,74	31,54	44,57	46,64	59,12	58,07	74,72	74,91	83,43	81,28	89,95	90,43	98,44	94,74
230	14,68	21,68	22,02	28,67	29,02	36,2	33,98	47,8	50,09	63,34	62,29	79,91	80,23	89,38	87,5	96,27	96,88	105,32	101,49
240	15,71	23,14	23,57	30,57	31	38,67	36,42	51,02	53,55	67,55	66,52	85,11	85,55	95,33	93,71	102,58	103,34	112,2	108,23
250	16,74	24,61	25,12	32,48	32,98	41,13	38,86	54,25	57	71,76	70,74	90,3	90,86	101,29	99,93	108,9	109,8	119,09	114,98

Notes:

- The V_{Rd} and M_{Rd} values indicated above correspond to Ultimate Limit State (ULS) resistances.
- The M_{Rd} bending moments indicated above have been determined assuming an applied shear force V_{Ed} equal to the corresponding V_{Rd} value shown in the table. When the applied shear force V_{Ed} is lower than the corresponding V_{Rd} value, the bending moment resistance M_{Rd} may be higher than the values indicated in the tables.
- Elements whose resistance values are highlighted in green in the table are normally available from stock.
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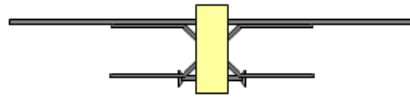
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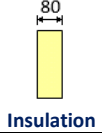


Type ACTP-MDV-080

Standard models



Concrete class
C25/30



Type	3	5	8	11	32	36	38	39
Top	6 x Ø8	8 x Ø8	6 x Ø12	12 x Ø10	10 x Ø12	12 x Ø12	14 x Ø12	16 x Ø12
Diag. (+)	6 x Ø6	6 x Ø6	4 x Ø8	6 x Ø8	4 x Ø8	6 x Ø8	6 x Ø8	8 x Ø8
Diag. (-)	6 x Ø6	6 x Ø6	4 x Ø8	6 x Ø8	4 x Ø8	6 x Ø8	6 x Ø8	8 x Ø8
Bottom	4 x Ø12	6 x Ø12	8 x Ø12	10 x Ø12	14 x Ø12	18 x Ø12	18 x Ø12	18 x Ø12

V _{Rd} [kN]	3	5	8	11	32	36	38	39
160	(+) 46.22, (-) -46.22	(+) 46.22, (-) -46.22	(+) 45.69, (-) -45.69	(+) 68.53, (-) -68.53	(+) 45.69, (-) -45.69	(+) 68.53, (-) -68.53	(+) 68.53, (-) -68.53	(+) 91.37, (-) -91.37
170	(+) 46.22, (-) -46.22	(+) 46.22, (-) -46.22	(+) 45.68, (-) -45.68	(+) 68.53, (-) -68.53	(+) 45.68, (-) -45.68	(+) 68.53, (-) -68.53	(+) 68.53, (-) -68.53	(+) 91.37, (-) -91.37
180	(+) 52.16, (-) -52.16	(+) 52.16, (-) -52.16	(+) 54.78, (-) -54.78	(+) 82.18, (-) -82.18	(+) 54.78, (-) -54.78	(+) 82.18, (-) -82.18	(+) 82.18, (-) -82.18	(+) 109.57, (-) -109.57
190	(+) 52.16, (-) -52.16	(+) 52.16, (-) -52.16	(+) 54.78, (-) -54.78	(+) 82.17, (-) -82.17	(+) 54.78, (-) -54.78	(+) 82.17, (-) -82.17	(+) 82.17, (-) -82.17	(+) 109.56, (-) -109.56
200	(+) 52.16, (-) -52.16	(+) 52.16, (-) -52.16	(+) 61.81, (-) -61.81	(+) 92.72, (-) -92.72	(+) 61.81, (-) -61.81	(+) 92.72, (-) -92.72	(+) 92.72, (-) -92.72	(+) 123.63, (-) -123.63
210	(+) 52.16, (-) -52.16	(+) 52.16, (-) -52.16	(+) 61.81, (-) -61.81	(+) 92.72, (-) -92.72	(+) 61.81, (-) -61.81	(+) 92.72, (-) -92.72	(+) 92.72, (-) -92.72	(+) 123.63, (-) -123.63
220	(+) 52.16, (-) -52.16	(+) 52.16, (-) -52.16	(+) 61.81, (-) -61.81	(+) 92.72, (-) -92.72	(+) 61.81, (-) -61.81	(+) 92.72, (-) -92.72	(+) 92.72, (-) -92.72	(+) 123.63, (-) -123.63
230	(+) 52.16, (-) -52.16	(+) 52.16, (-) -52.16	(+) 61.81, (-) -61.81	(+) 92.72, (-) -92.72	(+) 61.81, (-) -61.81	(+) 92.72, (-) -92.72	(+) 92.72, (-) -92.72	(+) 123.63, (-) -123.63
240	(+) 52.16, (-) -52.16	(+) 52.16, (-) -52.16	(+) 61.81, (-) -61.81	(+) 92.72, (-) -92.72	(+) 61.81, (-) -61.81	(+) 92.72, (-) -92.72	(+) 92.72, (-) -92.72	(+) 123.63, (-) -123.63
250	(+) 52.16, (-) -52.16	(+) 52.16, (-) -52.16	(+) 61.81, (-) -61.81	(+) 92.72, (-) -92.72	(+) 61.81, (-) -61.81	(+) 92.72, (-) -92.72	(+) 92.72, (-) -92.72	(+) 123.63, (-) -123.63

M _{Rd} [kNm]	3	5	8	11	32	36	38	39
160	10,37	13,87	24,66	26,79	37,89	47,1	47,1	44,55
170	11,79	15,68	27,73	30,2	42,37	52,73	52,73	50,02
180	12,71	16,99	30,28	32,97	46,41	57,72	57,72	54,65
190	14,11	18,78	33,35	36,39	50,89	63,36	63,36	60,14
200	15,51	20,57	35,78	39,66	55,28	68,85	68,85	65,43
210	16,91	22,36	38,83	43,11	59,78	74,52	74,52	70,96
220	18,32	24,15	41,88	46,55	64,28	80,18	80,18	76,49
230	19,72	25,94	44,92	50	68,77	85,85	85,85	82,02
240	21,12	27,73	47,97	53,45	73,27	91,52	91,52	87,55
250	22,52	29,52	51,02	56,9	77,77	97,18	97,18	93,07

Notes:

- The V_{Rd} and M_{Rd} values indicated above correspond to Ultimate Limit State (ULS) resistances.
- The M_{Rd} bending moments indicated above have been determined assuming an applied shear force V_{Ed} equal to the corresponding V_{Rd} value shown in the table. When the applied shear force V_{Ed} is lower than the corresponding V_{Rd} value, the bending moment resistance M_{Rd} may be higher than the values indicated in the tables.
- The table above is not intended to be exhaustive and only presents the standard elements. Other ISOTEC elements can be defined upon request or adapted to suit specific project requirements and configurations.

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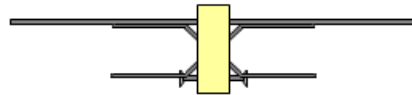
Structural thermal break

REF 01.03.01 - Version V03 - 21/08/2026

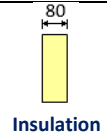


Type ACTP-MDV-080

Standard models



Concrete class
C30/37



Type	3	5	8	11	32	36	38	39
Top	6 x Ø8	8 x Ø8	6 x Ø12	12 x Ø10	10 x Ø12	12 x Ø12	14 x Ø12	16 x Ø12
Diag. (+)	6 x Ø6	6 x Ø6	4 x Ø8	6 x Ø8	4 x Ø8	6 x Ø8	6 x Ø8	8 x Ø8
Diag. (-)	6 x Ø6	6 x Ø6	4 x Ø8	6 x Ø8	4 x Ø8	6 x Ø8	6 x Ø8	8 x Ø8
Bottom	4 x Ø12	6 x Ø12	8 x Ø12	10 x Ø12	14 x Ø12	18 x Ø12	18 x Ø12	18 x Ø12

V _{Rd} [kN]	3	5	8	11	32	36	38	39
160	(+) 47.41, (-) -47.41	(+) 47.41, (-) -47.41	(+) 50.14, (-) -50.14	(+) 75.21, (-) -75.21	(+) 50.14, (-) -50.14	(+) 75.21, (-) -75.21	(+) 75.21, (-) -75.21	(+) 100.28, (-) -100.28
170	(+) 47.41, (-) -47.41	(+) 47.41, (-) -47.41	(+) 50.14, (-) -50.14	(+) 75.21, (-) -75.21	(+) 50.14, (-) -50.14	(+) 75.21, (-) -75.21	(+) 75.21, (-) -75.21	(+) 100.28, (-) -100.28
180	(+) 52.16, (-) -52.16	(+) 52.16, (-) -52.16	(+) 56.19, (-) -56.19	(+) 84.29, (-) -84.29	(+) 56.19, (-) -56.19	(+) 84.29, (-) -84.29	(+) 84.29, (-) -84.29	(+) 112.38, (-) -112.38
190	(+) 52.16, (-) -52.16	(+) 52.16, (-) -52.16	(+) 56.19, (-) -56.19	(+) 84.29, (-) -84.29	(+) 56.19, (-) -56.19	(+) 84.29, (-) -84.29	(+) 84.29, (-) -84.29	(+) 112.38, (-) -112.38
200	(+) 52.16, (-) -52.16	(+) 52.16, (-) -52.16	(+) 61.81, (-) -61.81	(+) 92.72, (-) -92.72	(+) 61.81, (-) -61.81	(+) 92.72, (-) -92.72	(+) 92.72, (-) -92.72	(+) 123.63, (-) -123.63
210	(+) 52.16, (-) -52.16	(+) 52.16, (-) -52.16	(+) 61.81, (-) -61.81	(+) 92.72, (-) -92.72	(+) 61.81, (-) -61.81	(+) 92.72, (-) -92.72	(+) 92.72, (-) -92.72	(+) 123.63, (-) -123.63
220	(+) 52.16, (-) -52.16	(+) 52.16, (-) -52.16	(+) 61.81, (-) -61.81	(+) 92.72, (-) -92.72	(+) 61.81, (-) -61.81	(+) 92.72, (-) -92.72	(+) 92.72, (-) -92.72	(+) 123.63, (-) -123.63
230	(+) 52.16, (-) -52.16	(+) 52.16, (-) -52.16	(+) 61.81, (-) -61.81	(+) 92.72, (-) -92.72	(+) 61.81, (-) -61.81	(+) 92.72, (-) -92.72	(+) 92.72, (-) -92.72	(+) 123.63, (-) -123.63
240	(+) 52.16, (-) -52.16	(+) 52.16, (-) -52.16	(+) 61.81, (-) -61.81	(+) 92.72, (-) -92.72	(+) 61.81, (-) -61.81	(+) 92.72, (-) -92.72	(+) 92.72, (-) -92.72	(+) 123.63, (-) -123.63
250	(+) 52.16, (-) -52.16	(+) 52.16, (-) -52.16	(+) 61.81, (-) -61.81	(+) 92.72, (-) -92.72	(+) 61.81, (-) -61.81	(+) 92.72, (-) -92.72	(+) 92.72, (-) -92.72	(+) 123.63, (-) -123.63

M _{Rd} [kNm]	3	5	8	11	32	36	38	39
160	11,67	15,6	26,29	32,93	44,64	53,69	57,3	54,5
170	13,24	17,61	29,57	37,06	49,9	60,09	64,11	61,14
180	14,29	19,1	32,25	41,16	54,54	65,59	70,87	67,72
190	15,84	21,08	35,51	45,34	59,77	71,95	77,71	74,41
200	17,39	23,07	38,11	49,63	64,33	77,31	84,67	81,25
210	18,93	25,05	41,34	53,85	69,52	83,63	91,55	88
220	20,48	27,03	44,57	58,07	74,72	89,95	98,44	94,74
230	22,02	29,02	47,8	62,29	79,91	96,27	105,32	101,49
240	23,57	31	51,02	66,52	85,11	102,58	112,2	108,23
250	25,12	32,98	54,25	70,74	90,3	108,9	119,09	114,98

Notes:

- The V_{Rd} and M_{Rd} values indicated above correspond to Ultimate Limit State (ULS) resistances.
- The M_{Rd} bending moments indicated above have been determined assuming an applied shear force V_{Ed} equal to the corresponding V_{Rd} value shown in the table. When the applied shear force V_{Ed} is lower than the corresponding V_{Rd} value, the bending moment resistance M_{Rd} may be higher than the values indicated in the tables.
- The table above is not intended to be exhaustive and only presents the standard elements. Other ISOTEC elements can be defined upon request or adapted to suit specific project requirements and configurations.

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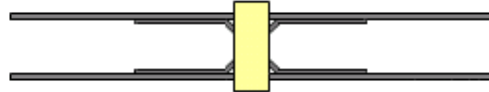
Structural thermal break

REF 01.03.01 - Version V03 - 21/08/2026



Type ACTP-DMV-080

Standard models


Concrete class
C25/30

80

Insulation

Type	3	5	8	11	13	16	18
Top	6 x Ø8	8 x Ø8	6 x Ø12	8 x Ø12	10 x Ø12	12 x Ø12	14 x Ø12
Diag. (+)	6 x Ø6	6 x Ø6	4 x Ø8	6 x Ø8	6 x Ø8	6 x Ø8	6 x Ø8
Diag. (-)	6 x Ø6	6 x Ø6	4 x Ø8	6 x Ø8	6 x Ø8	6 x Ø8	6 x Ø8
Bottom	6 x Ø8	8 x Ø8	6 x Ø12	8 x Ø12	10 x Ø12	12 x Ø12	14 x Ø12

V _{Rd} [kN]	3	5	8	11	13	16	18
160	(+) 46.22, (-) -46.22	(+) 46.22, (-) -46.22	(+) 45.69, (-) -45.69	(+) 68.53, (-) -68.53	(+) 68.53, (-) -68.53	(+) 68.53, (-) -68.53	(+) 68.53, (-) -68.53
170	(+) 46.22, (-) -46.22	(+) 46.22, (-) -46.22	(+) 45.68, (-) -45.68	(+) 68.53, (-) -68.53	(+) 68.53, (-) -68.53	(+) 68.53, (-) -68.53	(+) 68.53, (-) -68.53
180	(+) 52.16, (-) -52.16	(+) 52.16, (-) -52.16	(+) 54.78, (-) -54.78	(+) 82.18, (-) -82.18	(+) 82.18, (-) -82.18	(+) 82.18, (-) -82.18	(+) 82.18, (-) -82.18
190	(+) 52.16, (-) -52.16	(+) 52.16, (-) -52.16	(+) 54.78, (-) -54.78	(+) 82.17, (-) -82.17	(+) 82.17, (-) -82.17	(+) 82.17, (-) -82.17	(+) 82.17, (-) -82.17
200	(+) 52.16, (-) -52.16	(+) 52.16, (-) -52.16	(+) 61.81, (-) -61.81	(+) 92.72, (-) -92.72	(+) 92.72, (-) -92.72	(+) 92.72, (-) -92.72	(+) 92.72, (-) -92.72
210	(+) 52.16, (-) -52.16	(+) 52.16, (-) -52.16	(+) 61.81, (-) -61.81	(+) 92.72, (-) -92.72	(+) 92.72, (-) -92.72	(+) 92.72, (-) -92.72	(+) 92.72, (-) -92.72
220	(+) 52.16, (-) -52.16	(+) 52.16, (-) -52.16	(+) 61.81, (-) -61.81	(+) 92.72, (-) -92.72	(+) 92.72, (-) -92.72	(+) 92.72, (-) -92.72	(+) 92.72, (-) -92.72
230	(+) 52.16, (-) -52.16	(+) 52.16, (-) -52.16	(+) 61.81, (-) -61.81	(+) 92.72, (-) -92.72	(+) 92.72, (-) -92.72	(+) 92.72, (-) -92.72	(+) 92.72, (-) -92.72
240	(+) 52.16, (-) -52.16	(+) 52.16, (-) -52.16	(+) 61.81, (-) -61.81	(+) 92.72, (-) -92.72	(+) 92.72, (-) -92.72	(+) 92.72, (-) -92.72	(+) 92.72, (-) -92.72
250	(+) 52.16, (-) -52.16	(+) 52.16, (-) -52.16	(+) 61.81, (-) -61.81	(+) 92.72, (-) -92.72	(+) 92.72, (-) -92.72	(+) 92.72, (-) -92.72	(+) 92.72, (-) -92.72

M _{Rd} [kNm]	3	5	8	11	13	16	18
160	(+) 5.93, (-) -5.93	(+) 9.48, (-) -9.48	(+) 19.32, (-) -19.32	(+) 24.92, (-) -24.92	(+) 33.04, (-) -33.04	(+) 41.16, (-) -41.16	(+) 49.28, (-) -49.28
170	(+) 6.83, (-) -6.83	(+) 10.77, (-) -10.77	(+) 21.78, (-) -21.78	(+) 28.15, (-) -28.15	(+) 37.20, (-) -37.20	(+) 46.24, (-) -46.24	(+) 55.29, (-) -55.29
180	(+) 7.63, (-) -7.63	(+) 11.95, (-) -11.95	(+) 23.82, (-) -23.82	(+) 30.75, (-) -30.75	(+) 40.72, (-) -40.72	(+) 50.68, (-) -50.68	(+) 60.65, (-) -60.65
190	(+) 8.55, (-) -8.55	(+) 13.26, (-) -13.26	(+) 26.29, (-) -26.29	(+) 33.99, (-) -33.99	(+) 44.88, (-) -44.88	(+) 55.77, (-) -55.77	(+) 66.66, (-) -66.66
200	(+) 9.48, (-) -9.48	(+) 14.57, (-) -14.57	(+) 28.66, (-) -28.66	(+) 37.09, (-) -37.09	(+) 48.90, (-) -48.90	(+) 60.71, (-) -60.71	(+) 72.53, (-) -72.53
210	(+) 10.40, (-) -10.40	(+) 15.88, (-) -15.88	(+) 31.15, (-) -31.15	(+) 40.36, (-) -40.36	(+) 53.10, (-) -53.10	(+) 65.83, (-) -65.83	(+) 78.57, (-) -78.57
220	(+) 11.32, (-) -11.32	(+) 17.19, (-) -17.19	(+) 33.64, (-) -33.64	(+) 43.64, (-) -43.64	(+) 57.30, (-) -57.30	(+) 70.95, (-) -70.95	(+) 84.61, (-) -84.61
230	(+) 12.25, (-) -12.25	(+) 18.50, (-) -18.50	(+) 36.13, (-) -36.13	(+) 46.91, (-) -46.91	(+) 61.49, (-) -61.49	(+) 76.07, (-) -76.07	(+) 90.66, (-) -90.66
240	(+) 13.17, (-) -13.17	(+) 19.81, (-) -19.81	(+) 38.63, (-) -38.63	(+) 50.19, (-) -50.19	(+) 65.69, (-) -65.69	(+) 81.19, (-) -81.19	(+) 96.70, (-) -96.70
250	(+) 14.09, (-) -14.09	(+) 21.12, (-) -21.12	(+) 41.12, (-) -41.12	(+) 53.46, (-) -53.46	(+) 69.89, (-) -69.89	(+) 86.31, (-) -86.31	(+) 102.74, (-) -102.74

Notes:

- The V_{Rd} and M_{Rd} values indicated above correspond to Ultimate Limit State (ULS) resistances.
- The M_{Rd} bending moments indicated above have been determined assuming an applied shear force V_{Ed} equal to the corresponding V_{Rd} value shown in the table. When the applied shear force V_{Ed} is lower than the corresponding V_{Rd} value, the bending moment resistance M_{Rd} may be higher than the values indicated in the tables.
- The table above is not intended to be exhaustive and only presents the standard elements. Other ISOTEC elements can be defined upon request or adapted to suit specific project requirements and configurations.

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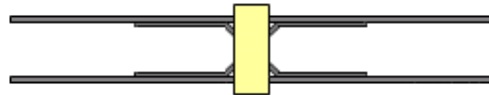
Structural thermal break

REF 01.03.01 - Version V03 - 21/08/2026



Type ACTP-DMV-080

Standard models



Concrete class
C30/37



Insulation

Type	3	5	8	11	13	16	18
Top	6 x Ø8	8 x Ø8	6 x Ø12	8 x Ø12	10 x Ø12	12 x Ø12	14 x Ø12
Diag. (+)	6 x Ø6	6 x Ø6	4 x Ø8	6 x Ø8	6 x Ø8	6 x Ø8	6 x Ø8
Diag. (-)	6 x Ø6	6 x Ø6	4 x Ø8	6 x Ø8	6 x Ø8	6 x Ø8	6 x Ø8
Bottom	6 x Ø8	8 x Ø8	6 x Ø12	8 x Ø12	10 x Ø12	12 x Ø12	14 x Ø12

V _{Rd} [kN]	3	5	8	11	13	16	18
160	(+) 47.41, (-) -47.41	(+) 47.41, (-) -47.41	(+) 50.14, (-) -50.14	(+) 75.21, (-) -75.21	(+) 75.21, (-) -75.21	(+) 75.21, (-) -75.21	(+) 75.21, (-) -75.21
170	(+) 47.41, (-) -47.41	(+) 47.41, (-) -47.41	(+) 50.14, (-) -50.14	(+) 75.21, (-) -75.21	(+) 75.21, (-) -75.21	(+) 75.21, (-) -75.21	(+) 75.21, (-) -75.21
180	(+) 52.16, (-) -52.16	(+) 52.16, (-) -52.16	(+) 56.19, (-) -56.19	(+) 84.29, (-) -84.29	(+) 84.29, (-) -84.29	(+) 84.29, (-) -84.29	(+) 84.29, (-) -84.29
190	(+) 52.16, (-) -52.16	(+) 52.16, (-) -52.16	(+) 56.19, (-) -56.19	(+) 84.29, (-) -84.29	(+) 84.29, (-) -84.29	(+) 84.29, (-) -84.29	(+) 84.29, (-) -84.29
200	(+) 52.16, (-) -52.16	(+) 52.16, (-) -52.16	(+) 61.81, (-) -61.81	(+) 92.72, (-) -92.72	(+) 92.72, (-) -92.72	(+) 92.72, (-) -92.72	(+) 92.72, (-) -92.72
210	(+) 52.16, (-) -52.16	(+) 52.16, (-) -52.16	(+) 61.81, (-) -61.81	(+) 92.72, (-) -92.72	(+) 92.72, (-) -92.72	(+) 92.72, (-) -92.72	(+) 92.72, (-) -92.72
220	(+) 52.16, (-) -52.16	(+) 52.16, (-) -52.16	(+) 61.81, (-) -61.81	(+) 92.72, (-) -92.72	(+) 92.72, (-) -92.72	(+) 92.72, (-) -92.72	(+) 92.72, (-) -92.72
230	(+) 52.16, (-) -52.16	(+) 52.16, (-) -52.16	(+) 61.81, (-) -61.81	(+) 92.72, (-) -92.72	(+) 92.72, (-) -92.72	(+) 92.72, (-) -92.72	(+) 92.72, (-) -92.72
240	(+) 52.16, (-) -52.16	(+) 52.16, (-) -52.16	(+) 61.81, (-) -61.81	(+) 92.72, (-) -92.72	(+) 92.72, (-) -92.72	(+) 92.72, (-) -92.72	(+) 92.72, (-) -92.72
250	(+) 52.16, (-) -52.16	(+) 52.16, (-) -52.16	(+) 61.81, (-) -61.81	(+) 92.72, (-) -92.72	(+) 92.72, (-) -92.72	(+) 92.72, (-) -92.72	(+) 92.72, (-) -92.72

M _{Rd} [kNm]	3	5	8	11	13	16	18
160	(+) 5.81, (-) -5.81	(+) 9.36, (-) -9.36	(+) 19.00, (-) -19.00	(+) 24.41, (-) -24.41	(+) 32.58, (-) -32.58	(+) 40.76, (-) -40.76	(+) 48.94, (-) -48.94
170	(+) 6.71, (-) -6.71	(+) 10.64, (-) -10.64	(+) 21.45, (-) -21.45	(+) 27.62, (-) -27.62	(+) 36.73, (-) -36.73	(+) 45.84, (-) -45.84	(+) 54.95, (-) -54.95
180	(+) 7.63, (-) -7.63	(+) 11.95, (-) -11.95	(+) 23.88, (-) -23.88	(+) 30.79, (-) -30.79	(+) 40.83, (-) -40.83	(+) 50.87, (-) -50.87	(+) 60.90, (-) -60.90
190	(+) 8.55, (-) -8.55	(+) 13.26, (-) -13.26	(+) 26.36, (-) -26.36	(+) 34.05, (-) -34.05	(+) 45.02, (-) -45.02	(+) 55.98, (-) -55.98	(+) 66.95, (-) -66.95
200	(+) 9.48, (-) -9.48	(+) 14.57, (-) -14.57	(+) 28.91, (-) -28.91	(+) 37.42, (-) -37.42	(+) 49.31, (-) -49.31	(+) 61.21, (-) -61.21	(+) 73.10, (-) -73.10
210	(+) 10.40, (-) -10.40	(+) 15.88, (-) -15.88	(+) 31.42, (-) -31.42	(+) 40.72, (-) -40.72	(+) 53.54, (-) -53.54	(+) 66.37, (-) -66.37	(+) 79.19, (-) -79.19
220	(+) 11.32, (-) -11.32	(+) 17.19, (-) -17.19	(+) 33.93, (-) -33.93	(+) 44.02, (-) -44.02	(+) 57.77, (-) -57.77	(+) 71.53, (-) -71.53	(+) 85.28, (-) -85.28
230	(+) 12.25, (-) -12.25	(+) 18.50, (-) -18.50	(+) 36.44, (-) -36.44	(+) 47.32, (-) -47.32	(+) 62.00, (-) -62.00	(+) 76.68, (-) -76.68	(+) 91.37, (-) -91.37
240	(+) 13.17, (-) -13.17	(+) 19.81, (-) -19.81	(+) 38.95, (-) -38.95	(+) 50.62, (-) -50.62	(+) 66.23, (-) -66.23	(+) 81.84, (-) -81.84	(+) 97.46, (-) -97.46
250	(+) 14.09, (-) -14.09	(+) 21.12, (-) -21.12	(+) 41.46, (-) -41.46	(+) 53.92, (-) -53.92	(+) 70.46, (-) -70.46	(+) 87.00, (-) -87.00	(+) 103.54, (-) -103.54

Notes:

- The V_{Rd} and M_{Rd} values indicated above correspond to Ultimate Limit State (ULS) resistances.
- The M_{Rd} bending moments indicated above have been determined assuming an applied shear force V_{Ed} equal to the corresponding V_{Rd} value shown in the table. When the applied shear force V_{Ed} is lower than the corresponding V_{Rd} value, the bending moment resistance M_{Rd} may be higher than the values indicated in the tables.
- The table above is not intended to be exhaustive and only presents the standard elements. Other ISOTEC elements can be defined upon request or adapted to suit specific project requirements and configurations.

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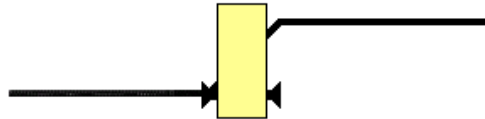
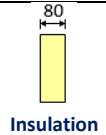
Structural thermal break

REF 01.03.01 - Version V03 - 21/08/2026



Type ACTP-V-080

Standard models


Concrete class
C25/30


Type	50	51	52	53	54	55	56	57	58	59	62
Top	/	/	/	/	/	/	/	/	/	/	/
Diag. (+)	4 x Ø6	4 x Ø6	6 x Ø6	6 x Ø6	8 x Ø6	10 x Ø6	6 x Ø8	8 x Ø8	6 x Ø10	8 x Ø10	12 x Ø10
Diag. (-)	/	/	/	/	/	/	/	/	/	/	/
Bottom	2 x Ø12	4 x Ø12	2 x Ø12	4 x Ø12	2 x Ø12	2 x Ø12	4 x Ø12	4 x Ø12	4 x Ø12	6 x Ø12	8 x Ø12

V _{Rd} [kN]	50	51	52	53	54	55	56	57	58	59	62
160	31,61	31,61	47,41	47,41	63,22	79,02	75,21	100,28			
170	31,61	31,61	47,41	47,41	63,22	79,02	75,21	100,28	117,52	156,69	235,04
180	34,77	34,77	52,16	52,16	69,54	86,93	84,29	112,38	117,52	156,69	235,04
190	34,77	34,77	52,16	52,16	69,54	86,93	84,29	112,38	131,7	175,6	263,4
200	34,77	34,77	52,16	52,16	69,54	86,93	92,72	123,63	131,7	175,6	263,4
210	34,77	34,77	52,16	52,16	69,54	86,93	92,72	123,63	144,88	193,17	289,75
220	34,77	34,77	52,16	52,16	69,54	86,93	92,72	123,63	144,88	193,17	289,75
230	34,77	34,77	52,16	52,16	69,54	86,93	92,72	123,63	144,88	193,17	289,75
240	34,77	34,77	52,16	52,16	69,54	86,93	92,72	123,63	144,88	193,17	289,75
250	34,77	34,77	52,16	52,16	69,54	86,93	92,72	123,63	144,88	193,17	289,75

M _{Rd} [kNm]	50	51	52	53	54	55	56	57	58	59	62
160	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00			
170	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00
180	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00
190	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00
200	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00
210	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00
220	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00
230	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00
240	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00
250	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00

Notes:

- The V_{Rd} values indicated above correspond to Ultimate Limit State (ULS) resistances.
- Elements whose resistance values are highlighted in green in the table are normally available from stock.
- The table above is not intended to be exhaustive and only presents the standard elements. Other ISOTEC elements can be defined upon request or adapted to suit specific project requirements and configurations.

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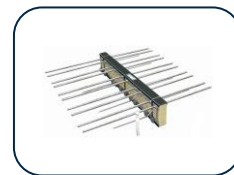
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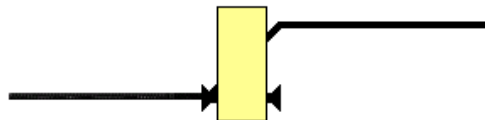
Structural thermal break

REF 01.03.01 - Version V03 - 21/08/2026

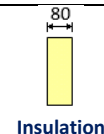


Type ACTP-V-080

Standard models



Concrete class
C30/37



Type	50	51	52	53	54	55	56	57	58	59	62
Top	/	/	/	/	/	/	/	/	/	/	/
Diag. (+)	4 x Ø6	4 x Ø6	6 x Ø6	6 x Ø6	8 x Ø6	10 x Ø6	6 x Ø8	8 x Ø8	6 x Ø10	8 x Ø10	12 x Ø10
Diag. (-)	/	/	/	/	/	/	/	/	/	/	/
Bottom	2 x Ø12	4 x Ø12	2 x Ø12	4 x Ø12	2 x Ø12	2 x Ø12	4 x Ø12	4 x Ø12	4 x Ø12	6 x Ø12	8 x Ø12

V _{Rd} [kN]	50	51	52	53	54	55	56	57	58	59	62
160	31,61	31,61	47,41	47,41	63,22	79,02	75,21	100,28			
170	31,61	31,61	47,41	47,41	63,22	79,02	75,21	100,28	117,52	156,69	235,04
180	34,77	34,77	52,16	52,16	69,54	86,93	84,29	112,38	117,52	156,69	235,04
190	34,77	34,77	52,16	52,16	69,54	86,93	84,29	112,38	131,7	175,6	263,4
200	34,77	34,77	52,16	52,16	69,54	86,93	92,72	123,63	131,7	175,6	263,4
210	34,77	34,77	52,16	52,16	69,54	86,93	92,72	123,63	144,88	193,17	289,75
220	34,77	34,77	52,16	52,16	69,54	86,93	92,72	123,63	144,88	193,17	289,75
230	34,77	34,77	52,16	52,16	69,54	86,93	92,72	123,63	144,88	193,17	289,75
240	34,77	34,77	52,16	52,16	69,54	86,93	92,72	123,63	144,88	193,17	289,75
250	34,77	34,77	52,16	52,16	69,54	86,93	92,72	123,63	144,88	193,17	289,75

M _{Rd} [kNm]	50	51	52	53	54	55	56	57	58	59	62
160	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00			
170	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00
180	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00
190	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00
200	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00
210	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00
220	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00
230	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00
240	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00
250	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00

Notes:

- The V_{Rd} values indicated above correspond to Ultimate Limit State (ULS) resistances.
- Elements whose resistance values are highlighted in green in the table are normally available from stock.
- The table above is not intended to be exhaustive and only presents the standard elements. Other ISOTEC elements can be defined upon request or adapted to suit specific project requirements and configurations.

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Structural thermal break

REF 01.03.01 - Version V03 - 21/08/2026



Type ACTP-DV-080

Standard models



Concrete class
C25/30



Insulation

Type	50	51	52	53	54	55	56	57	58	59
Top	/	/	/	/	/	/	/	/	/	/
Diag. (+)	4 x Ø6	4 x Ø6	6 x Ø6	6 x Ø6	8 x Ø6	10 x Ø6	6 x Ø8	8 x Ø8	6 x Ø10	8 x Ø10
Diag. (-)	4 x Ø6	4 x Ø6	6 x Ø6	6 x Ø6	8 x Ø6	10 x Ø6	6 x Ø8	8 x Ø8	6 x Ø10	8 x Ø10
Bottom	2 x Ø12	4 x Ø12	2 x Ø12	4 x Ø12	2 x Ø12	2 x Ø12	4 x Ø12	4 x Ø12	4 x Ø12	4 x Ø12

V _{Rd} [kN]	50	51	52	53	54	55	56	57	58	59
160	(+)31.61, (-) -31.61	(+) 31.61, (-) -31.61	(+) 47.41, (-) -47.41	(+) 47.41, (-) -47.41	(+) 63.22, (-) -63.22	(+) 79.02, (-) -79.02	(+) 75.21, (-) -75.21	(+) 100.28, (-) -100.28		
170	(+) 31.61, (-) -31.61	(+) 31.61, (-) -31.61	(+) 47.41, (-) -47.41	(+) 47.41, (-) -47.41	(+) 63.22, (-) -63.22	(+) 79.02, (-) -79.02	(+) 75.21, (-) -75.21	(+) 100.28, (-) -100.28	(+) 117.52, (-) -117.52	(+) 156.69, (-) -156.69
180	(+) 34.77, (-) -34.77	(+) 34.77, (-) -34.77	(+) 52.16, (-) -52.16	(+) 52.16, (-) -52.16	(+) 69.54, (-) -69.54	(+) 86.93, (-) -86.93	(+) 84.29, (-) -84.29	(+) 112.38, (-) -112.38	(+) 117.52, (-) -117.52	(+) 156.69, (-) -156.69
190	(+) 34.77, (-) -34.77	(+) 34.77, (-) -34.77	(+) 52.16, (-) -52.16	(+) 52.16, (-) -52.16	(+) 69.54, (-) -69.54	(+) 86.93, (-) -86.93	(+) 84.29, (-) -84.29	(+) 112.38, (-) -112.38	(+) 131.70, (-) -131.70	(+) 175.60, (-) -175.60
200	(+) 34.77, (-) -34.77	(+) 34.77, (-) -34.77	(+) 52.16, (-) -52.16	(+) 52.16, (-) -52.16	(+) 69.54, (-) -69.54	(+) 86.93, (-) -86.93	(+) 92.72, (-) -92.72	(+) 123.63, (-) -123.63	(+) 131.70, (-) -131.70	(+) 175.60, (-) -175.60
210	(+) 34.77, (-) -34.77	(+) 34.77, (-) -34.77	(+) 52.16, (-) -52.16	(+) 52.16, (-) -52.16	(+) 69.54, (-) -69.54	(+) 86.93, (-) -86.93	(+) 92.72, (-) -92.72	(+) 123.63, (-) -123.63	(+) 144.88, (-) -144.88	(+) 193.17, (-) -193.17
220	(+) 34.77, (-) -34.77	(+) 34.77, (-) -34.77	(+) 52.16, (-) -52.16	(+) 52.16, (-) -52.16	(+) 69.54, (-) -69.54	(+) 86.93, (-) -86.93	(+) 92.72, (-) -92.72	(+) 123.63, (-) -123.63	(+) 144.88, (-) -144.88	(+) 193.17, (-) -193.17
230	(+) 34.77, (-) -34.77	(+) 34.77, (-) -34.77	(+) 52.16, (-) -52.16	(+) 52.16, (-) -52.16	(+) 69.54, (-) -69.54	(+) 86.93, (-) -86.93	(+) 92.72, (-) -92.72	(+) 123.63, (-) -123.63	(+) 144.88, (-) -144.88	(+) 193.17, (-) -193.17
240	(+) 34.77, (-) -34.77	(+) 34.77, (-) -34.77	(+) 52.16, (-) -52.16	(+) 52.16, (-) -52.16	(+) 69.54, (-) -69.54	(+) 86.93, (-) -86.93	(+) 92.72, (-) -92.72	(+) 123.63, (-) -123.63	(+) 144.88, (-) -144.88	(+) 193.17, (-) -193.17
250	(+) 34.77, (-) -34.77	(+) 34.77, (-) -34.77	(+) 52.16, (-) -52.16	(+) 52.16, (-) -52.16	(+) 69.54, (-) -69.54	(+) 86.93, (-) -86.93	(+) 92.72, (-) -92.72	(+) 123.63, (-) -123.63	(+) 144.88, (-) -144.88	(+) 193.17, (-) -193.17

M _{Rd} [kNm]	50	51	52	53	54	55	56	57	58	59
160	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00		
170	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00
180	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00
190	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00
200	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00
210	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00
220	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00
230	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00
240	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00
250	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00

Notes:

- The V_{Rd} values indicated above correspond to Ultimate Limit State (ULS) resistances.
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Structural thermal break

REF 01.03.01 - Version V03 - 21/08/2026



Type ACTP-DV-080

Standard models



Concrete class
C30/37



Insulation

Type	50	51	52	53	54	55	56	57	58	59
Top	/	/	/	/	/	/	/	/	/	/
Diag. (+)	4 x Ø6	4 x Ø6	6 x Ø6	6 x Ø6	8 x Ø6	10 x Ø6	6 x Ø8	8 x Ø8	6 x Ø10	8 x Ø10
Diag. (-)	4 x Ø6	4 x Ø6	6 x Ø6	6 x Ø6	8 x Ø6	10 x Ø6	6 x Ø8	8 x Ø8	6 x Ø10	8 x Ø10
Bottom	2 x Ø12	4 x Ø12	2 x Ø12	4 x Ø12	2 x Ø12	2 x Ø12	4 x Ø12	4 x Ø12	4 x Ø12	4 x Ø12

V _{Rd} [kN]	50	51	52	53	54	55	56	57	58	59
160	(+)31.61, (-) -31.61	(+) 31.61, (-) -31.61	(+) 47.41, (-) -47.41	(+) 47.41, (-) -47.41	(+) 63.22, (-) -63.22	(+) 79.02, (-) -79.02	(+) 75.21, (-) -75.21	(+) 100.28, (-) -100.28		
170	(+) 31.61, (-) -31.61	(+) 31.61, (-) -31.61	(+) 47.41, (-) -47.41	(+) 47.41, (-) -47.41	(+) 63.22, (-) -63.22	(+) 79.02, (-) -79.02	(+) 75.21, (-) -75.21	(+) 100.28, (-) -100.28	(+) 117.52, (-) -117.52	(+) 156.69, (-) -156.69
180	(+) 34.77, (-) -34.77	(+) 34.77, (-) -34.77	(+) 52.16, (-) -52.16	(+) 52.16, (-) -52.16	(+) 69.54, (-) -69.54	(+) 86.93, (-) -86.93	(+) 84.29, (-) -84.29	(+) 112.38, (-) -112.38	(+) 117.52, (-) -117.52	(+) 156.69, (-) -156.69
190	(+) 34.77, (-) -34.77	(+) 34.77, (-) -34.77	(+) 52.16, (-) -52.16	(+) 52.16, (-) -52.16	(+) 69.54, (-) -69.54	(+) 86.93, (-) -86.93	(+) 84.29, (-) -84.29	(+) 112.38, (-) -112.38	(+) 131.70, (-) -131.70	(+) 175.60, (-) -175.60
200	(+) 34.77, (-) -34.77	(+) 34.77, (-) -34.77	(+) 52.16, (-) -52.16	(+) 52.16, (-) -52.16	(+) 69.54, (-) -69.54	(+) 86.93, (-) -86.93	(+) 92.72, (-) -92.72	(+) 123.63, (-) -123.63	(+) 131.70, (-) -131.70	(+) 175.60, (-) -175.60
210	(+) 34.77, (-) -34.77	(+) 34.77, (-) -34.77	(+) 52.16, (-) -52.16	(+) 52.16, (-) -52.16	(+) 69.54, (-) -69.54	(+) 86.93, (-) -86.93	(+) 92.72, (-) -92.72	(+) 123.63, (-) -123.63	(+) 144.88, (-) -144.88	(+) 193.17, (-) -193.17
220	(+) 34.77, (-) -34.77	(+) 34.77, (-) -34.77	(+) 52.16, (-) -52.16	(+) 52.16, (-) -52.16	(+) 69.54, (-) -69.54	(+) 86.93, (-) -86.93	(+) 92.72, (-) -92.72	(+) 123.63, (-) -123.63	(+) 144.88, (-) -144.88	(+) 193.17, (-) -193.17
230	(+) 34.77, (-) -34.77	(+) 34.77, (-) -34.77	(+) 52.16, (-) -52.16	(+) 52.16, (-) -52.16	(+) 69.54, (-) -69.54	(+) 86.93, (-) -86.93	(+) 92.72, (-) -92.72	(+) 123.63, (-) -123.63	(+) 144.88, (-) -144.88	(+) 193.17, (-) -193.17
240	(+) 34.77, (-) -34.77	(+) 34.77, (-) -34.77	(+) 52.16, (-) -52.16	(+) 52.16, (-) -52.16	(+) 69.54, (-) -69.54	(+) 86.93, (-) -86.93	(+) 92.72, (-) -92.72	(+) 123.63, (-) -123.63	(+) 144.88, (-) -144.88	(+) 193.17, (-) -193.17
250	(+) 34.77, (-) -34.77	(+) 34.77, (-) -34.77	(+) 52.16, (-) -52.16	(+) 52.16, (-) -52.16	(+) 69.54, (-) -69.54	(+) 86.93, (-) -86.93	(+) 92.72, (-) -92.72	(+) 123.63, (-) -123.63	(+) 144.88, (-) -144.88	(+) 193.17, (-) -193.17

M _{Rd} [kNm]	50	51	52	53	54	55	56	57	58	59
160	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00		
170	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00
180	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00
190	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00
200	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00
210	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00
220	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00
230	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00
240	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00
250	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00

Notes:

- The V_{Rd} values indicated above correspond to Ultimate Limit State (ULS) resistances.
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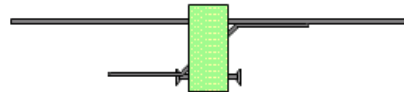
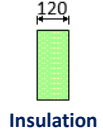
Structural thermal break

REF 01.03.01 - Version V03 - 21/08/2026



Type ACTP-MV-120

Standard models


Concrete class
C25/30


Insulation

Type	1	2	3	4	5	6	7	8	9	10	11	32	33	34	35	36	37	38	39
Top	4Φ8	6Φ8	6Φ8	8Φ8	8Φ8	10Φ8	6Φ10	6Φ12	10Φ10	8Φ12	12Φ10	10Φ12	10Φ12	16Φ10	16Φ10	12Φ12	12Φ12	14Φ12	14Φ12
Diag. (+)	4Φ6	4Φ6	6Φ6	4Φ6	6Φ6	4Φ8	6Φ8	4Φ8	6Φ8	4Φ8	6Φ8	4Φ8	6Φ8	8Φ8	10Φ10	6Φ8	8Φ8	6Φ8	8Φ8
Diag. (-)	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
Bottom	4Φ12	4Φ12	4Φ12	6Φ12	6Φ12	6Φ12	6Φ12	8Φ12	8Φ12	10Φ12	10Φ12	14Φ12	14Φ12	16Φ12	18Φ12	18Φ12	18Φ12	18Φ12	18Φ12

V _{Rd} [kN]	1	2	3	4	5	6	7	8	9	10	11	32	33	34	35	36	37	38	39
160																			
170																			
180	25,69	25,69	38,54	25,69	38,54	45,68	68,52	45,68	68,52	45,68	68,52	45,68	68,52	91,36		68,52	91,36	68,52	91,36
190	30,81	30,81	46,22	30,81	46,22	45,68	68,52	45,68	68,52	45,68	68,52	45,68	68,52	91,36	172,52	68,52	91,36	68,52	91,36
200	z	30,81	46,22	30,81	46,22	54,78	82,17	54,78	82,17	54,78	82,17	54,78	82,17	109,56	172,51	82,17	109,56	82,17	109,56
210	30,81	30,81	46,22	30,81	46,22	54,78	82,17	54,78	82,17	54,78	82,17	54,78	82,17	109,56	172,51	82,17	109,56	82,17	109,56
220	34,77	34,77	52,16	34,77	52,16	54,78	82,17	54,78	82,17	54,78	82,17	54,78	82,17	109,56	206,88	82,17	109,56	82,17	109,56
230	34,77	34,77	52,16	34,77	52,16	61,81	92,72	61,81	92,72	61,81	92,72	61,81	92,72	123,63	206,87	92,72	123,63	92,72	123,63
240	34,77	34,77	52,16	34,77	52,16	61,81	92,72	61,81	92,72	61,81	92,72	61,81	92,72	123,63	206,87	92,72	123,63	92,72	123,63
250	34,77	34,77	52,16	34,77	52,16	61,81	92,72	61,81	92,72	61,81	92,72	61,81	92,72	123,63	241,46	92,72	123,63	92,72	123,63

M _{Rd} [kNm]	1	2	3	4	5	6	7	8	9	10	11	32	33	34	35	36	37	38	39
160																			
170																			
180	8,19	12,27	11,95	16,35	16,36	19,68	16,17	27,87	24,86	35,18	32,24	45,93	42,61	47,29		56,99	53,67	56,99	53,67
190	8,7	13,15	12,78	17,61	17,51	21,77	18,11	30,76	27,6	38,74	35,65	50,4	46,94	52,15	47,34	62,62	59,15	62,62	59,15
200	9,61	14,44	14,12	19,26	19,24	23,26	19,15	33,04	29,43	41,7	38,16	54,28	50,36	55,8	52,28	67,35	63,43	67,35	63,43
210	10,52	15,72	15,46	20,91	20,98	25,35	21,09	35,93	32,17	45,27	41,58	58,75	54,69	60,66	57,21	72,98	68,92	72,98	68,92
220	10,97	16,54	16,46	22,1	22,02	27,44	23,03	38,82	34,91	48,84	44,99	63,23	59,02	65,53	59,92	78,62	74,4	78,62	74,4
230	11,87	17,81	17,81	23,74	23,74	29,36	24,71	41,53	37,39	52,23	48,15	67,54	63,09	70,05	64,88	84	79,55	84	79,55
240	12,77	19,08	19,15	25,38	25,46	31,48	26,69	44,45	40,16	55,81	51,6	72,04	67,45	74,95	69,84	89,66	85,07	89,66	85,07
250	13,67	20,34	20,5	27,02	27,18	33,59	28,66	47,36	42,93	59,4	55,04	76,54	71,81	79,85	73,07	95,33	90,6	95,33	90,6

Notes:

- The V_{Rd} and M_{Rd} values indicated above correspond to Ultimate Limit State (ULS) resistances.
- The M_{Rd} bending moments indicated above have been determined assuming an applied shear force V_{Ed} equal to the corresponding V_{Rd} value shown in the table. When the applied shear force V_{Ed} is lower than the corresponding V_{Rd} value, the bending moment resistance M_{Rd} may be higher than the values indicated in the tables.
- The table above is not intended to be exhaustive and only presents the standard elements. Other ISOTEC elements can be defined upon request or adapted to suit specific project requirements and configurations.

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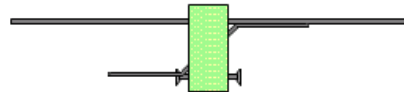
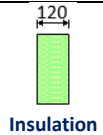
Structural thermal break

REF 01.03.01 - Version V03 - 21/08/2026



Type ACTP-MV-120

Standard models


Concrete class
C30/37


Type	1	2	3	4	5	6	7	8	9	10	11	32	33	34	35	36	37	38	39
Top	4Φ8	6Φ8	6Φ8	8Φ8	8Φ8	10Φ8	6Φ10	6Φ12	10Φ10	8Φ12	12Φ10	10Φ12	10Φ12	16Φ10	16Φ10	12Φ12	12Φ12	14Φ12	14Φ12
Diag. (+)	4Φ6	4Φ6	6Φ6	4Φ6	6Φ6	4Φ8	6Φ8	4Φ8	6Φ8	4Φ8	6Φ8	4Φ8	6Φ8	8Φ8	10Φ10	6Φ8	8Φ8	6Φ8	8Φ8
Diag. (-)	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
Bottom	4Φ12	4Φ12	4Φ12	6Φ12	6Φ12	6Φ12	6Φ12	8Φ12	8Φ12	10Φ12	10Φ12	14Φ12	14Φ12	16Φ12	18Φ12	18Φ12	18Φ12	18Φ12	18Φ12

V _{Rd} [kN]	1	2	3	4	5	6	7	8	9	10	11	32	33	34	35	36	37	38	39
160																			
170																			
180	28,2	28,2	42,31	28,2	42,31	50,14	75,21	50,14	75,21	50,14	75,21	50,14	75,21	100,28		75,21	100,28	75,21	100,28
190	31,61	31,61	47,41	31,61	47,41	50,14	75,21	50,14	75,21	50,14	75,21	50,14	75,21	100,28	194,08	75,21	100,28	75,21	100,28
200	31,61	31,61	47,41	31,61	47,41	56,19	84,29	56,19	84,29	56,19	84,29	56,19	84,29	112,38	194,07	84,29	112,38	84,29	112,38
210	31,61	31,61	47,41	31,61	47,41	56,19	84,29	56,19	84,29	56,19	84,29	56,19	84,29	112,38	194,07	84,29	112,38	84,29	112,38
220	34,77	34,77	52,16	34,77	52,16	56,19	84,29	56,19	84,29	56,19	84,29	56,19	84,29	112,38	219,5	84,29	112,38	84,29	112,38
230	34,77	34,77	52,16	34,77	52,16	61,81	92,72	61,81	92,72	61,81	92,72	61,81	92,72	123,63	219,5	92,72	123,63	92,72	123,63
240	34,77	34,77	52,16	34,77	52,16	61,81	92,72	61,81	92,72	61,81	92,72	61,81	92,72	123,63	219,5	92,72	123,63	92,72	123,63
250	34,77	34,77	52,16	34,77	52,16	61,81	92,72	61,81	92,72	61,81	92,72	61,81	92,72	123,63	241,46	92,72	123,63	92,72	123,63

M _{Rd} [kNm]	1	2	3	4	5	6	7	8	9	10	11	32	33	34	35	36	37	38	39
160																			
170																			
180	9,21	13,45	11,4	18,39	18,41	19,03	15,21	27,23	23,9	35,84	32,59	54,11	50,47	56,18		64,99	64,37	68,01	64,37
190	9,81	14,79	12,61	19,83	19,72	21,09	17,1	30,09	26,59	39,49	36,07	59,36	55,55	61,89	57,24	71,39	70,88	74,68	70,88
200	10,82	16,21	13,95	21,67	21,65	23,06	18,85	32,84	29,13	43,05	39,41	63,87	60,49	67,41	63,13	76,62	76,59	81,22	77,2
210	11,83	17,63	15,28	23,51	23,58	25,14	20,78	35,72	31,86	46,73	42,94	69,09	65,61	73,18	69,01	82,98	83,11	87,93	83,76
220	12,36	18,62	16,64	24,88	24,81	27,23	22,71	38,61	34,59	50,4	46,46	74,31	70,73	78,94	74,44	89,34	89,62	94,65	90,32
230	13,35	20,03	18	26,71	26,71	29,36	24,71	41,53	37,39	54,13	50,06	78,68	75,93	83,63	80,41	94,41	94,41	101,44	96,99
240	14,35	21,44	19,36	28,53	28,61	31,48	26,69	44,45	40,16	57,84	53,63	83,87	81,09	89,38	86,39	100,73	100,87	108,2	103,61
250	15,34	22,85	20,72	30,36	30,52	33,59	28,66	47,36	42,93	61,55	57,2	89,07	86,26	95,13	92,8	107,05	107,33	114,95	110,22

Notes:

- The V_{Rd} and M_{Rd} values indicated above correspond to Ultimate Limit State (ULS) resistances.
- The M_{Rd} bending moments indicated above have been determined assuming an applied shear force V_{Ed} equal to the corresponding V_{Rd} value shown in the table. When the applied shear force V_{Ed} is lower than the corresponding V_{Rd} value, the bending moment resistance M_{Rd} may be higher than the values indicated in the tables.
- The table above is not intended to be exhaustive and only presents the standard elements. Other ISOTEC elements can be defined upon request or adapted to suit specific project requirements and configurations.

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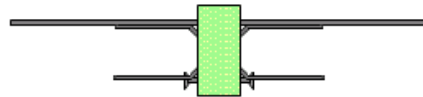
Structural thermal break

REF 01.03.01 - Version V03 - 21/08/2026



Type ACTP-MDV-120

Standard models



Concrete class
C25/30



Insulation

Type	3	5	8	11	32	36	38	39
Top	6 x Ø8	8 x Ø8	6 x Ø12	12 x Ø10	10 x Ø12	12 x Ø12	14 x Ø12	16 x Ø12
Diag. (+)	6 x Ø6	6 x Ø6	4 x Ø8	6 x Ø8	4 x Ø8	6 x Ø8	6 x Ø8	8 x Ø8
Diag. (-)	6 x Ø6	6 x Ø6	4 x Ø8	6 x Ø8	4 x Ø8	6 x Ø8	6 x Ø8	8 x Ø8
Bottom	4 x Ø12	6 x Ø12	8 x Ø12	10 x Ø12	14 x Ø12	18 x Ø12	18 x Ø12	18 x Ø12

V _{Rd} [kN]	3	5	8	11	32	36	38	39
160								
170								
180	(+) 38.54, (-) -38.54	(+) 38.54, (-) -38.54	(+) 45.68, (-) -45.68	(+) 68.52, (-) -68.52	(+) 45.68, (-) -45.68	(+) 68.52, (-) -68.52	(+) 68.52, (-) -68.52	(+) 91.36, (-) -91.36
190	(+) 46.22, (-) -46.22	(+) 46.22, (-) -46.22	(+) 45.68, (-) -45.68	(+) 68.52, (-) -68.52	(+) 45.68, (-) -45.68	(+) 68.52, (-) -68.52	(+) 68.52, (-) -68.52	(+) 91.36, (-) -91.36
200	(+) 46.22, (-) -46.22	(+) 46.22, (-) -46.22	(+) 54.78, (-) -54.78	(+) 82.17, (-) -82.17	(+) 54.78, (-) -54.78	(+) 82.17, (-) -82.17	(+) 82.17, (-) -82.17	(+) 109.56, (-) -109.56
210	(+) 46.22, (-) -46.22	(+) 46.22, (-) -46.22	(+) 54.78, (-) -54.78	(+) 82.17, (-) -82.17	(+) 54.78, (-) -54.78	(+) 82.17, (-) -82.17	(+) 82.17, (-) -82.17	(+) 109.56, (-) -109.56
220	(+) 52.16, (-) -52.16	(+) 52.16, (-) -52.16	(+) 54.78, (-) -54.78	(+) 82.17, (-) -82.17	(+) 54.78, (-) -54.78	(+) 82.17, (-) -82.17	(+) 82.17, (-) -82.17	(+) 109.56, (-) -109.56
230	(+) 52.16, (-) -52.16	(+) 52.16, (-) -52.16	(+) 61.81, (-) -61.81	(+) 92.72, (-) -92.72	(+) 61.81, (-) -61.81	(+) 92.72, (-) -92.72	(+) 92.72, (-) -92.72	(+) 123.63, (-) -123.63
240	(+) 52.16, (-) -52.16	(+) 52.16, (-) -52.16	(+) 61.81, (-) -61.81	(+) 92.72, (-) -92.72	(+) 61.81, (-) -61.81	(+) 92.72, (-) -92.72	(+) 92.72, (-) -92.72	(+) 123.63, (-) -123.63
250	(+) 52.16, (-) -52.16	(+) 52.16, (-) -52.16	(+) 61.81, (-) -61.81	(+) 92.72, (-) -92.72	(+) 61.81, (-) -61.81	(+) 92.72, (-) -92.72	(+) 92.72, (-) -92.72	(+) 123.63, (-) -123.63

M _{Rd} [kNm]	3	5	8	11	32	36	38	39
160								
170								
180	11,95	16,36	27,87	32,24	45,93	56,99	56,99	53,67
190	12,78	17,51	30,76	35,65	50,4	62,62	62,62	59,15
200	14,12	19,24	33,04	38,16	54,28	67,35	67,35	63,43
210	15,46	20,98	35,93	41,58	58,75	72,98	72,98	68,92
220	16,46	22,02	38,82	44,99	63,23	78,62	78,62	74,4
230	17,81	23,74	41,53	48,15	67,54	84	84	79,55
240	19,15	25,46	44,45	51,6	72,04	89,66	89,66	85,07
250	20,5	27,18	47,36	55,04	76,54	95,33	95,33	90,6

Notes:

- The V_{Rd} and M_{Rd} values indicated above correspond to Ultimate Limit State (ULS) resistances.
- The M_{Rd} bending moments indicated above have been determined assuming an applied shear force V_{Ed} equal to the corresponding V_{Rd} value shown in the table. When the applied shear force V_{Ed} is lower than the corresponding V_{Rd} value, the bending moment resistance M_{Rd} may be higher than the values indicated in the tables.
- The table above is not intended to be exhaustive and only presents the standard elements. Other ISOTEC elements can be defined upon request or adapted to suit specific project requirements and configurations.

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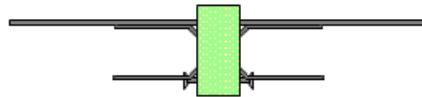
Structural thermal break

REF 01.03.01 - Version V03 - 21/08/2026

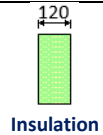


Type ACTP-MDV-120

Standard models



Concrete class
C30/37



Type	3	5	8	11	32	36	38	39
Top	6 x Ø8	8 x Ø8	6 x Ø12	12 x Ø10	10 x Ø12	12 x Ø12	14 x Ø12	16 x Ø12
Diag. (+)	6 x Ø6	6 x Ø6	4 x Ø8	6 x Ø8	4 x Ø8	6 x Ø8	6 x Ø8	8 x Ø8
Diag. (-)	6 x Ø6	6 x Ø6	4 x Ø8	6 x Ø8	4 x Ø8	6 x Ø8	6 x Ø8	8 x Ø8
Bottom	4 x Ø12	6 x Ø12	8 x Ø12	10 x Ø12	14 x Ø12	18 x Ø12	18 x Ø12	18 x Ø12

V _{Rd} [kN]	3	5	8	11	32	36	38	39
160								
170								
180	(+) 42.31, (-) -42.31	(+) 42.31, (-) -42.31	(+) 50.14, (-) -50.14	(+) 75.21, (-) -75.21	(+) 50.14, (-) -50.14	(+) 75.21, (-) -75.21	(+) 75.21, (-) -75.21	(+) 100.28, (-) -100.28
190	(+) 47.41, (-) -47.41	(+) 47.41, (-) -47.41	(+) 50.14, (-) -50.14	(+) 75.21, (-) -75.21	(+) 50.14, (-) -50.14	(+) 75.21, (-) -75.21	(+) 75.21, (-) -75.21	(+) 100.28, (-) -100.28
200	(+) 47.41, (-) -47.41	(+) 47.41, (-) -47.41	(+) 56.19, (-) -56.19	(+) 84.29, (-) -84.29	(+) 56.19, (-) -56.19	(+) 84.29, (-) -84.29	(+) 84.29, (-) -84.29	(+) 112.38, (-) -112.38
210	(+) 47.41, (-) -47.41	(+) 47.41, (-) -47.41	(+) 56.19, (-) -56.19	(+) 84.29, (-) -84.29	(+) 56.19, (-) -56.19	(+) 84.29, (-) -84.29	(+) 84.29, (-) -84.29	(+) 112.38, (-) -112.38
220	(+) 52.16, (-) -52.16	(+) 52.16, (-) -52.16	(+) 56.19, (-) -56.19	(+) 84.29, (-) -84.29	(+) 56.19, (-) -56.19	(+) 84.29, (-) -84.29	(+) 84.29, (-) -84.29	(+) 112.38, (-) -112.38
230	(+) 52.16, (-) -52.16	(+) 52.16, (-) -52.16	(+) 61.81, (-) -61.81	(+) 92.72, (-) -92.72	(+) 61.81, (-) -61.81	(+) 92.72, (-) -92.72	(+) 92.72, (-) -92.72	(+) 123.63, (-) -123.63
240	(+) 52.16, (-) -52.16	(+) 52.16, (-) -52.16	(+) 61.81, (-) -61.81	(+) 92.72, (-) -92.72	(+) 61.81, (-) -61.81	(+) 92.72, (-) -92.72	(+) 92.72, (-) -92.72	(+) 123.63, (-) -123.63
250	(+) 52.16, (-) -52.16	(+) 52.16, (-) -52.16	(+) 61.81, (-) -61.81	(+) 92.72, (-) -92.72	(+) 61.81, (-) -61.81	(+) 92.72, (-) -92.72	(+) 92.72, (-) -92.72	(+) 123.63, (-) -123.63

M _{Rd} [kNm]	3	5	8	11	32	36	38	39
160								
170								
180	11,4	18,41	27,23	32,59	54,11	64,99	68,01	64,37
190	12,61	19,72	30,09	36,07	59,36	71,39	74,68	70,88
200	13,95	21,65	32,84	39,41	63,87	76,62	81,22	77,2
210	15,28	23,58	35,72	42,94	69,09	82,98	87,93	83,76
220	16,64	24,81	38,61	46,46	74,31	89,34	94,65	90,32
230	18	26,71	41,53	50,06	78,68	94,41	101,44	96,99
240	19,36	28,61	44,45	53,63	83,87	100,73	108,2	103,61
250	20,72	30,52	47,36	57,2	89,07	107,05	114,95	110,22

Notes:

- The V_{Rd} and M_{Rd} values indicated above correspond to Ultimate Limit State (ULS) resistances.
- The M_{Rd} bending moments indicated above have been determined assuming an applied shear force V_{Ed} equal to the corresponding V_{Rd} value shown in the table. When the applied shear force V_{Ed} is lower than the corresponding V_{Rd} value, the bending moment resistance M_{Rd} may be higher than the values indicated in the tables.
- The table above is not intended to be exhaustive and only presents the standard elements. Other ISOTEC elements can be defined upon request or adapted to suit specific project requirements and configurations.

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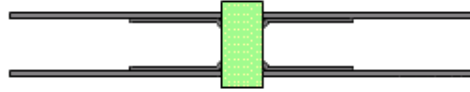
Structural thermal break

REF 01.03.01 - Version V03 - 21/08/2026



Type ACTP-DMV-120

Standard models



Concrete class
C25/30



Insulation

Type	3	5	8	11	13	16	18
Top	6 x Ø8	8 x Ø8	6 x Ø12	8 x Ø12	10 x Ø12	12 x Ø12	14 x Ø12
Diag. (+)	6 x Ø6	6 x Ø6	4 x Ø8	6 x Ø8	6 x Ø8	6 x Ø8	6 x Ø8
Diag. (-)	6 x Ø6	6 x Ø6	4 x Ø8	6 x Ø8	6 x Ø8	6 x Ø8	6 x Ø8
Bottom	6 x Ø8	8 x Ø8	6 x Ø12	8 x Ø12	10 x Ø12	12 x Ø12	14 x Ø12

V _{Rd} [kN]	3	5	8	11	13	16	18
160							
170							
180	(+) 38.54, (-) -38.54	(+) 38.54, (-) -38.54	(+) 45.68, (-) -45.68	(+) 68.52, (-) -68.52	(+) 68.52, (-) -68.52	(+) 68.52, (-) -68.52	(+) 68.52, (-) -68.52
190	(+) 46.22, (-) -46.22	(+) 46.22, (-) -46.22	(+) 45.68, (-) -45.68	(+) 68.52, (-) -68.52	(+) 68.52, (-) -68.52	(+) 68.52, (-) -68.52	(+) 68.52, (-) -68.52
200	(+) 46.22, (-) -46.22	(+) 46.22, (-) -46.22	(+) 54.78, (-) -54.78	(+) 82.17, (-) -82.17	(+) 82.17, (-) -82.17	(+) 82.17, (-) -82.17	(+) 82.17, (-) -82.17
210	(+) 46.22, (-) -46.22	(+) 46.22, (-) -46.22	(+) 54.78, (-) -54.78	(+) 82.17, (-) -82.17	(+) 82.17, (-) -82.17	(+) 82.17, (-) -82.17	(+) 82.17, (-) -82.17
220	(+) 52.16, (-) -52.16	(+) 52.16, (-) -52.16	(+) 54.78, (-) -54.78	(+) 82.17, (-) -82.17	(+) 82.17, (-) -82.17	(+) 82.17, (-) -82.17	(+) 82.17, (-) -82.17
230	(+) 52.16, (-) -52.16	(+) 52.16, (-) -52.16	(+) 61.81, (-) -61.81	(+) 92.72, (-) -92.72	(+) 92.72, (-) -92.72	(+) 92.72, (-) -92.72	(+) 92.72, (-) -92.72
240	(+) 52.16, (-) -52.16	(+) 52.16, (-) -52.16	(+) 61.81, (-) -61.81	(+) 92.72, (-) -92.72	(+) 92.72, (-) -92.72	(+) 92.72, (-) -92.72	(+) 92.72, (-) -92.72
250	(+) 52.16, (-) -52.16	(+) 52.16, (-) -52.16	(+) 61.81, (-) -61.81	(+) 92.72, (-) -92.72	(+) 92.72, (-) -92.72	(+) 92.72, (-) -92.72	(+) 92.72, (-) -92.72

M _{Rd} [kNm]	3	5	8	11	13	16	18
160							
170							
180	(+) 5.85, (-) -5.85	(+) 9.69, (-) -9.69	(+) 21.57, (-) -21.57	(+) 27.67, (-) -27.67	(+) 37.05, (-) -37.05	(+) 46.43, (-) -46.43	(+) 55.81, (-) -55.81
190	(+) 6.12, (-) -6.12	(+) 10.29, (-) -10.29	(+) 23.88, (-) -23.88	(+) 30.69, (-) -30.69	(+) 40.94, (-) -40.94	(+) 51.19, (-) -51.19	(+) 61.44, (-) -61.44
200	(+) 6.89, (-) -6.89	(+) 11.41, (-) -11.41	(+) 25.58, (-) -25.58	(+) 32.81, (-) -32.81	(+) 43.93, (-) -43.93	(+) 55.04, (-) -55.04	(+) 66.16, (-) -66.16
210	(+) 7.66, (-) -7.66	(+) 12.52, (-) -12.52	(+) 27.89, (-) -27.89	(+) 35.84, (-) -35.84	(+) 47.82, (-) -47.82	(+) 59.81, (-) -59.81	(+) 71.79, (-) -71.79
220	(+) 8.28, (-) -8.28	(+) 13.48, (-) -13.48	(+) 30.19, (-) -30.19	(+) 38.86, (-) -38.86	(+) 51.72, (-) -51.72	(+) 64.57, (-) -64.57	(+) 77.42, (-) -77.42
230	(+) 9.07, (-) -9.07	(+) 14.61, (-) -14.61	(+) 32.32, (-) -32.32	(+) 41.62, (-) -41.62	(+) 55.34, (-) -55.34	(+) 69.07, (-) -69.07	(+) 82.79, (-) -82.79
240	(+) 9.86, (-) -9.86	(+) 15.75, (-) -15.75	(+) 34.65, (-) -34.65	(+) 44.68, (-) -44.68	(+) 59.27, (-) -59.27	(+) 73.86, (-) -73.86	(+) 88.45, (-) -88.45
250	(+) 10.65, (-) -10.65	(+) 16.88, (-) -16.88	(+) 36.98, (-) -36.98	(+) 47.74, (-) -47.74	(+) 63.19, (-) -63.19	(+) 78.65, (-) -78.65	(+) 94.11, (-) -94.11

Notes:

- The V_{Rd} and M_{Rd} values indicated above correspond to Ultimate Limit State (ULS) resistances.
- The M_{Rd} bending moments indicated above have been determined assuming an applied shear force V_{Ed} equal to the corresponding V_{Rd} value shown in the table. When the applied shear force V_{Ed} is lower than the corresponding V_{Rd} value, the bending moment resistance M_{Rd} may be higher than the values indicated in the tables.
- The table above is not intended to be exhaustive and only presents the standard elements. Other ISOTEC elements can be defined upon request or adapted to suit specific project requirements and configurations.

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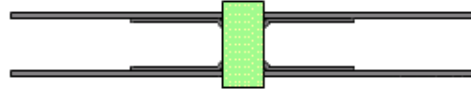
Structural thermal break

REF 01.03.01 - Version V03 - 21/08/2026



Type ACTP-DMV-120

Standard models



Concrete class
C30/37



Insulation

Type	3	5	8	11	13	16	18
Top	6 x Ø8	8 x Ø8	6 x Ø12	8 x Ø12	10 x Ø12	12 x Ø12	14 x Ø12
Diag. (+)	6 x Ø6	6 x Ø6	4 x Ø8	6 x Ø8	6 x Ø8	6 x Ø8	6 x Ø8
Diag. (-)	6 x Ø6	6 x Ø6	4 x Ø8	6 x Ø8	6 x Ø8	6 x Ø8	6 x Ø8
Bottom	6 x Ø8	8 x Ø8	6 x Ø12	8 x Ø12	10 x Ø12	12 x Ø12	14 x Ø12

V _{Rd} [kN]	3	5	8	11	13	16	18
160							
170							
180	(+) 42.31, (-) -42.31	(+) 42.31, (-) -42.31	(+) 50.14, (-) -50.14	(+) 75.21, (-) -75.21	(+) 75.21, (-) -75.21	(+) 75.21, (-) -75.21	(+) 75.21, (-) -75.21
190	(+) 47.41, (-) -47.41	(+) 47.41, (-) -47.41	(+) 50.14, (-) -50.14	(+) 75.21, (-) -75.21	(+) 75.21, (-) -75.21	(+) 75.21, (-) -75.21	(+) 75.21, (-) -75.21
200	(+) 47.41, (-) -47.41	(+) 47.41, (-) -47.41	(+) 56.19, (-) -56.19	(+) 84.29, (-) -84.29	(+) 84.29, (-) -84.29	(+) 84.29, (-) -84.29	(+) 84.29, (-) -84.29
210	(+) 47.41, (-) -47.41	(+) 47.41, (-) -47.41	(+) 56.19, (-) -56.19	(+) 84.29, (-) -84.29	(+) 84.29, (-) -84.29	(+) 84.29, (-) -84.29	(+) 84.29, (-) -84.29
220	(+) 52.16, (-) -52.16	(+) 52.16, (-) -52.16	(+) 56.19, (-) -56.19	(+) 84.29, (-) -84.29	(+) 84.29, (-) -84.29	(+) 84.29, (-) -84.29	(+) 84.29, (-) -84.29
230	(+) 52.16, (-) -52.16	(+) 52.16, (-) -52.16	(+) 61.81, (-) -61.81	(+) 92.72, (-) -92.72	(+) 92.72, (-) -92.72	(+) 92.72, (-) -92.72	(+) 92.72, (-) -92.72
240	(+) 52.16, (-) -52.16	(+) 52.16, (-) -52.16	(+) 61.81, (-) -61.81	(+) 92.72, (-) -92.72	(+) 92.72, (-) -92.72	(+) 92.72, (-) -92.72	(+) 92.72, (-) -92.72
250	(+) 52.16, (-) -52.16	(+) 52.16, (-) -52.16	(+) 61.81, (-) -61.81	(+) 92.72, (-) -92.72	(+) 92.72, (-) -92.72	(+) 92.72, (-) -92.72	(+) 92.72, (-) -92.72

M _{Rd} [kNm]	3	5	8	11	13	16	18
160							
170							
180	(+) 5.30, (-) -5.30	(+) 9.13, (-) -9.13	(+) 20.93, (-) -20.93	(+) 26.71, (-) -26.71	(+) 36.09, (-) -36.09	(+) 45.47, (-) -45.47	(+) 54.85, (-) -54.85
190	(+) 5.95, (-) -5.95	(+) 10.12, (-) -10.12	(+) 23.21, (-) -23.21	(+) 29.68, (-) -29.68	(+) 39.93, (-) -39.93	(+) 50.18, (-) -50.18	(+) 60.43, (-) -60.43
200	(+) 6.72, (-) -6.72	(+) 11.23, (-) -11.23	(+) 25.38, (-) -25.38	(+) 32.51, (-) -32.51	(+) 43.63, (-) -43.63	(+) 54.74, (-) -54.74	(+) 65.86, (-) -65.86
210	(+) 7.49, (-) -7.49	(+) 12.34, (-) -12.34	(+) 27.68, (-) -27.68	(+) 35.52, (-) -35.52	(+) 47.51, (-) -47.51	(+) 59.49, (-) -59.49	(+) 71.48, (-) -71.48
220	(+) 8.28, (-) -8.28	(+) 13.48, (-) -13.48	(+) 29.98, (-) -29.98	(+) 38.54, (-) -38.54	(+) 51.39, (-) -51.39	(+) 64.25, (-) -64.25	(+) 77.10, (-) -77.10
230	(+) 9.07, (-) -9.07	(+) 14.61, (-) -14.61	(+) 32.32, (-) -32.32	(+) 41.62, (-) -41.62	(+) 55.34, (-) -55.34	(+) 69.07, (-) -69.07	(+) 82.79, (-) -82.79
240	(+) 9.86, (-) -9.86	(+) 15.75, (-) -15.75	(+) 34.65, (-) -34.65	(+) 44.68, (-) -44.68	(+) 59.27, (-) -59.27	(+) 73.86, (-) -73.86	(+) 88.45, (-) -88.45
250	(+) 10.65, (-) -10.65	(+) 16.88, (-) -16.88	(+) 36.98, (-) -36.98	(+) 47.74, (-) -47.74	(+) 63.19, (-) -63.19	(+) 78.65, (-) -78.65	(+) 94.11, (-) -94.11

Notes:

- The V_{Rd} and M_{Rd} values indicated above correspond to Ultimate Limit State (ULS) resistances.
- The M_{Rd} bending moments indicated above have been determined assuming an applied shear force V_{Ed} equal to the corresponding V_{Rd} value shown in the table. When the applied shear force V_{Ed} is lower than the corresponding V_{Rd} value, the bending moment resistance M_{Rd} may be higher than the values indicated in the tables.
- The table above is not intended to be exhaustive and only presents the standard elements. Other ISOTEC elements can be defined upon request or adapted to suit specific project requirements and configurations.

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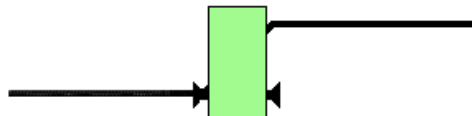
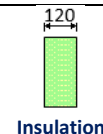
Structural thermal break

REF 01.03.01 - Version V03 - 21/08/2026



Type ACTP-V-120

Standard models


Concrete class
C25/30


Insulation

Type	50	51	52	53	54	55	56	57	58	59	62
Top	/	/	/	/	/	/	/	/	/	/	/
Diag. (+)	4 x Ø6	4 x Ø6	6 x Ø6	6 x Ø6	8 x Ø6	10 x Ø6	6 x Ø8	8 x Ø8	6 x Ø10	8 x Ø10	12 x Ø10
Diag. (-)	/	/	/	/	/	/	/	/	/	/	/
Bottom	2 x Ø12	4 x Ø12	2 x Ø12	4 x Ø12	2 x Ø12	2 x Ø12	4 x Ø12	4 x Ø12	4 x Ø12	6 x Ø12	8 x Ø12

V _{Rd} [kN]	50	51	52	53	54	55	56	57	58	59	62
160											
170											
180	28,2	28,2	42,31	42,31	56,41	70,51	75,21	100,28			
190	31,61	31,61	47,41	47,41	63,22	79,02	75,21	100,28	117,52	156,69	235,04
200	31,61	31,61	47,41	47,41	63,22	79,02	84,29	112,38	117,52	156,69	235,04
210	31,61	31,61	47,41	47,41	63,22	79,02	84,29	112,38	117,52	156,69	235,04
220	34,77	34,77	52,16	52,16	69,54	86,93	84,29	112,38	131,7	175,6	263,4
230	34,77	34,77	52,16	52,16	69,54	86,93	92,72	123,63	131,7	175,6	263,4
240	34,77	34,77	52,16	52,16	69,54	86,93	92,72	123,63	131,7	175,6	263,4
250	34,77	34,77	52,16	52,16	69,54	86,93	92,72	123,63	144,88	193,17	289,75

M _{Rd} [kNm]	50	51	52	53	54	55	56	57	58	59	62
160	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00			
170	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00
180	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00
190	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00
200	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00
210	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00
220	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00
230	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00
240	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00
250	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00

Notes:

- The V_{Rd} values indicated above correspond to Ultimate Limit State (ULS) resistances.
- The table above is not intended to be exhaustive and only presents the standard elements. Other ISOTEC elements can be defined upon request or adapted to suit specific project requirements and configurations.

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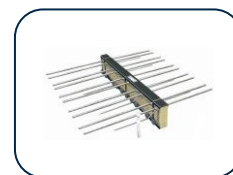
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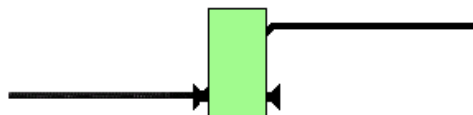
Structural thermal break

REF 01.03.01 - Version V03 - 21/08/2026

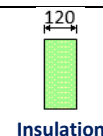


Type ACTP-V-120

Standard models



Concrete class
C30/37



Insulation

Type	50	51	52	53	54	55	56	57	58	59	62
Top	/	/	/	/	/	/	/	/	/	/	/
Diag. (+)	4 x Ø6	4 x Ø6	6 x Ø6	6 x Ø6	8 x Ø6	10 x Ø6	6 x Ø8	8 x Ø8	6 x Ø10	8 x Ø10	12 x Ø10
Diag. (-)	/	/	/	/	/	/	/	/	/	/	/
Bottom	2 x Ø12	4 x Ø12	2 x Ø12	4 x Ø12	2 x Ø12	2 x Ø12	4 x Ø12	4 x Ø12	4 x Ø12	6 x Ø12	8 x Ø12

V _{Rd} [kN]	50	51	52	53	54	55	56	57	58	59	62
160											
170											
180	28,2	28,2	42,31	42,31	56,41	70,51	75,21	100,28			
190	31,61	31,61	47,41	47,41	63,22	79,02	75,21	100,28	117,52	156,69	235,04
200	31,61	31,61	47,41	47,41	63,22	79,02	84,29	112,38	117,52	156,69	235,04
210	31,61	31,61	47,41	47,41	63,22	79,02	84,29	112,38	117,52	156,69	235,04
220	34,77	34,77	52,16	52,16	69,54	86,93	84,29	112,38	131,7	175,6	263,4
230	34,77	34,77	52,16	52,16	69,54	86,93	92,72	123,63	131,7	175,6	263,4
240	34,77	34,77	52,16	52,16	69,54	86,93	92,72	123,63	131,7	175,6	263,4
250	34,77	34,77	52,16	52,16	69,54	86,93	92,72	123,63	144,88	193,17	289,75

M _{Rd} [kNm]	50	51	52	53	54	55	56	57	58	59	62
160	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00			
170	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00
180	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00
190	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00
200	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00
210	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00
220	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00
230	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00
240	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00
250	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00

Notes:

- The V_{Rd} values indicated above correspond to Ultimate Limit State (ULS) resistances.
- The table above is not intended to be exhaustive and only presents the standard elements. Other ISOTEC elements can be defined upon request or adapted to suit specific project requirements and configurations.

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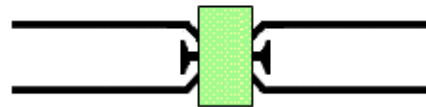
Structural thermal break

REF 01.03.01 - Version V03 - 21/08/2026



Type ACTP-DV-080

Standard models


Concrete class
C25/30


Insulation

Type	50	51	52	53	54	55	56	57	58	59
Top	/	/	/	/	/	/	/	/	/	/
Diag. (+)	4 x Ø6	4 x Ø6	6 x Ø6	6 x Ø6	8 x Ø6	10 x Ø6	6 x Ø8	8 x Ø8	6 x Ø10	8 x Ø10
Diag. (-)	4 x Ø6	4 x Ø6	6 x Ø6	6 x Ø6	8 x Ø6	10 x Ø6	6 x Ø8	8 x Ø8	6 x Ø10	8 x Ø10
Bottom	2 x Ø12	4 x Ø12	2 x Ø12	4 x Ø12	2 x Ø12	2 x Ø12	4 x Ø12	4 x Ø12	4 x Ø12	4 x Ø12

V _{Rd} [kN]	50	51	52	53	54	55	56	57	58	59
160										
170										
180	(+) 28.20, (-) -28.20	(+) 28.20, (-) -28.20	(+) 42.31, (-) -42.31	(+) 42.31, (-) -42.31	(+) 56.41, (-) -56.41	(+) 70.51, (-) -70.51	(+) 75.21, (-) -75.21	(+) 100.28, (-) -100.28		
190	(+) 31.61, (-) -31.61	(+) 31.61, (-) -31.61	(+) 47.41, (-) -47.41	(+) 47.41, (-) -47.41	(+) 63.22, (-) -63.22	(+) 79.02, (-) -79.02	(+) 75.21, (-) -75.21	(+) 100.28, (-) -100.28	(+) 117.52, (-) -117.52	(+) 156.69, (-) -156.69
200	(+) 31.61, (-) -31.61	(+) 31.61, (-) -31.61	(+) 47.41, (-) -47.41	(+) 47.41, (-) -47.41	(+) 63.22, (-) -63.22	(+) 79.02, (-) -79.02	(+) 84.29, (-) -84.29	(+) 112.38, (-) -112.38	(+) 117.52, (-) -117.52	(+) 156.69, (-) -156.69
210	(+) 31.61, (-) -31.61	(+) 31.61, (-) -31.61	(+) 47.41, (-) -47.41	(+) 47.41, (-) -47.41	(+) 63.22, (-) -63.22	(+) 79.02, (-) -79.02	(+) 84.29, (-) -84.29	(+) 112.38, (-) -112.38	(+) 117.52, (-) -117.52	(+) 156.69, (-) -156.69
220	(+) 34.77, (-) -34.77	(+) 34.77, (-) -34.77	(+) 52.16, (-) -52.16	(+) 52.16, (-) -52.16	(+) 69.54, (-) -69.54	(+) 86.93, (-) -86.93	(+) 84.29, (-) -84.29	(+) 112.38, (-) -112.38	(+) 131.70, (-) -131.70	(+) 175.60, (-) -175.60
230	(+) 34.77, (-) -34.77	(+) 34.77, (-) -34.77	(+) 52.16, (-) -52.16	(+) 52.16, (-) -52.16	(+) 69.54, (-) -69.54	(+) 86.93, (-) -86.93	(+) 92.72, (-) -92.72	(+) 123.63, (-) -123.63	(+) 131.70, (-) -131.70	(+) 175.60, (-) -175.60
240	(+) 34.77, (-) -34.77	(+) 34.77, (-) -34.77	(+) 52.16, (-) -52.16	(+) 52.16, (-) -52.16	(+) 69.54, (-) -69.54	(+) 86.93, (-) -86.93	(+) 92.72, (-) -92.72	(+) 123.63, (-) -123.63	(+) 131.70, (-) -131.70	(+) 175.60, (-) -175.60
250	(+) 34.77, (-) -34.77	(+) 34.77, (-) -34.77	(+) 52.16, (-) -52.16	(+) 52.16, (-) -52.16	(+) 69.54, (-) -69.54	(+) 86.93, (-) -86.93	(+) 92.72, (-) -92.72	(+) 123.63, (-) -123.63	(+) 144.88, (-) -144.88	(+) 193.17, (-) -193.17

M _{Rd} [kNm]	50	51	52	53	54	55	56	57	58	59
160	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00		
170	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00
180	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00
190	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00
200	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00
210	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00
220	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00
230	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00
240	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00
250	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00

Notes:

- The V_{Rd} values indicated above correspond to Ultimate Limit State (ULS) resistances.
- The table above is not intended to be exhaustive and only presents the standard elements. Other ISOTEC elements can be defined upon request or adapted to suit specific project requirements and configurations.

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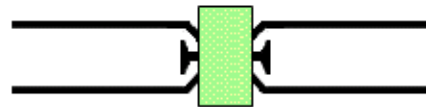
Structural thermal break

REF 01.03.01 - Version V03 - 21/08/2026



Type ACTP-DV-080

Standard models


Concrete class
C30/37

120

Insulation

Type	50	51	52	53	54	55	56	57	58	59
Top	/	/	/	/	/	/	/	/	/	/
Diag. (+)	4 x Ø6	4 x Ø6	6 x Ø6	6 x Ø6	8 x Ø6	10 x Ø6	6 x Ø8	8 x Ø8	6 x Ø10	8 x Ø10
Diag. (-)	4 x Ø6	4 x Ø6	6 x Ø6	6 x Ø6	8 x Ø6	10 x Ø6	6 x Ø8	8 x Ø8	6 x Ø10	8 x Ø10
Bottom	2 x Ø12	4 x Ø12	2 x Ø12	4 x Ø12	2 x Ø12	2 x Ø12	4 x Ø12	4 x Ø12	4 x Ø12	4 x Ø12

V _{Rd} [kN]	50	51	52	53	54	55	56	57	58	59
160										
170										
180	(+) 28.20, (-) -28.20	(+) 28.20, (-) -28.20	(+) 42.31, (-) -42.31	(+) 42.31, (-) -42.31	(+) 56.41, (-) -56.41	(+) 70.51, (-) -70.51	(+) 75.21, (-) -75.21	(+) 100.28, (-) -100.28		
190	(+) 31.61, (-) -31.61	(+) 31.61, (-) -31.61	(+) 47.41, (-) -47.41	(+) 47.41, (-) -47.41	(+) 63.22, (-) -63.22	(+) 79.02, (-) -79.02	(+) 75.21, (-) -75.21	(+) 100.28, (-) -100.28	(+) 117.52, (-) -117.52	(+) 156.69, (-) -156.69
200	(+) 31.61, (-) -31.61	(+) 31.61, (-) -31.61	(+) 47.41, (-) -47.41	(+) 47.41, (-) -47.41	(+) 63.22, (-) -63.22	(+) 79.02, (-) -79.02	(+) 84.29, (-) -84.29	(+) 112.38, (-) -112.38	(+) 117.52, (-) -117.52	(+) 156.69, (-) -156.69
210	(+) 31.61, (-) -31.61	(+) 31.61, (-) -31.61	(+) 47.41, (-) -47.41	(+) 47.41, (-) -47.41	(+) 63.22, (-) -63.22	(+) 79.02, (-) -79.02	(+) 84.29, (-) -84.29	(+) 112.38, (-) -112.38	(+) 117.52, (-) -117.52	(+) 156.69, (-) -156.69
220	(+) 34.77, (-) -34.77	(+) 34.77, (-) -34.77	(+) 52.16, (-) -52.16	(+) 52.16, (-) -52.16	(+) 69.54, (-) -69.54	(+) 86.93, (-) -86.93	(+) 84.29, (-) -84.29	(+) 112.38, (-) -112.38	(+) 131.70, (-) -131.70	(+) 175.60, (-) -175.60
230	(+) 34.77, (-) -34.77	(+) 34.77, (-) -34.77	(+) 52.16, (-) -52.16	(+) 52.16, (-) -52.16	(+) 69.54, (-) -69.54	(+) 86.93, (-) -86.93	(+) 92.72, (-) -92.72	(+) 123.63, (-) -123.63	(+) 131.70, (-) -131.70	(+) 175.60, (-) -175.60
240	(+) 34.77, (-) -34.77	(+) 34.77, (-) -34.77	(+) 52.16, (-) -52.16	(+) 52.16, (-) -52.16	(+) 69.54, (-) -69.54	(+) 86.93, (-) -86.93	(+) 92.72, (-) -92.72	(+) 123.63, (-) -123.63	(+) 131.70, (-) -131.70	(+) 175.60, (-) -175.60
250	(+) 34.77, (-) -34.77	(+) 34.77, (-) -34.77	(+) 52.16, (-) -52.16	(+) 52.16, (-) -52.16	(+) 69.54, (-) -69.54	(+) 86.93, (-) -86.93	(+) 92.72, (-) -92.72	(+) 123.63, (-) -123.63	(+) 144.88, (-) -144.88	(+) 193.17, (-) -193.17

M _{Rd} [kNm]	50	51	52	53	54	55	56	57	58	59
160	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00		
170	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00
180	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00
190	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00
200	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00
210	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00
220	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00
230	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00
240	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00
250	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00	(±) 0.00

Notes:

- The V_{Rd} values indicated above correspond to Ultimate Limit State (ULS) resistances.
- The table above is not intended to be exhaustive and only presents the standard elements. Other ISOTEC elements can be defined upon request or adapted to suit specific project requirements and configurations.

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Bending of reinforcement

The bending details shown below are provided for illustrative purposes only and represent just a few examples of the manufacturing possibilities. Reinforcement bar shapes can be adapted to suit the specific geometry and structural configuration of the project.

ISOTEC – Bending configurations			
MV		DMV	
V - $\Phi = 6 \text{ mm}$		DV - $\Phi = 6 \text{ mm}$	
V - $\Phi > 6 \text{ mm}$		DV - $\Phi > 6 \text{ mm}$	
MV/SB		MV/SH	
MV/WB		MV/WH	
R		P	

The insulation panel is protected at its top and bottom surfaces by two PVC profiles. A label providing the information required for correct installation is affixed to the upper profile (see page 24 below).

The standard length of ISOTEC elements is 1 metre.

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Additional information

Testing and design method

Due to the absence of concrete within the insulation core of the ISOTEC element, the reinforcement is designed using a truss model. Shear forces and bending moments are transferred through tensile and compressive forces in the reinforcement bars. The buckling of compression bars is taken into account in the design.

Fire resistance of the ISOTEC 80: R120. Reference fire test reports are available upon request.

Packaging

ISOTEC elements are packed in steel storage racks that protect them during transport. The number of elements per rack depends on the element type and height and typically ranges from 12 to 30 units per rack.

Installation instructions

The installation instructions for ISOTEC elements shall be strictly followed. Reference should be made to the label attached to the upper profile of each ISOTEC element.

EXT. Balcon | Balkon | Balcony



INT. Dalle int. | Binnen vloerplaat | Inner slab

Prescriptions de pose
Voir document joint à chaque palette de transport.

Plaatsingsvoorschriften
Zie document toegevoegd aan elk pallet.

Installation guidelines
See document attached to each pallet.



Isotec



Isotec RT + (ITE)

Avis Technique | FDES

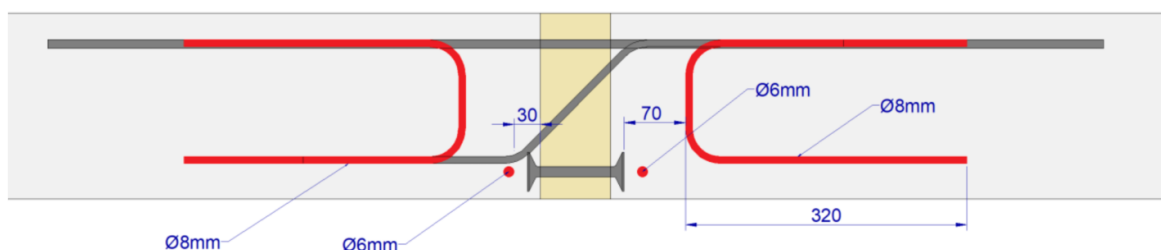


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Additional reinforcement to be provided by the contractor



- (A): Ø 6 mm longitudinal bar along the entire length
- (B): Ø 8 mm stirrup at each compression bar location

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Design

Thermal break elements are designed in accordance with **Eurocode 2**. The quotation and calculation report shall be considered as a proposal only. The design of the structure remains the responsibility of the project's structural engineer. The structural engineer shall review the calculation report and adapt the reinforcement of both the internal and external concrete structures to accommodate the ISOTEC elements.

Concrete elements shall be reinforced taking into account the forces introduced through the ISOTEC anchorage system.

Notes :

- ISOTEC elements are generally not installed along the entire length of the balcony or concrete element. They are distributed along its length in accordance with the installation drawings provided with the calculation report, and the intermediate spaces shall be filled with suitable insulation material. The reinforcement of the concrete structure shall ensure adequate distribution of the forces transferred by the ISOTEC elements.
- Where ISOTEC bars are anchored within a beam downstand or upstand, it is the responsibility of the structural engineer to verify that the beam is capable of resisting the transmitted forces, particularly with regard to torsion.
- Where anchorage is provided in the structural topping concrete of precast slabs or hollow-core slabs, the topping concrete shall be designed to resist the loads transmitted by the ISOTEC elements.
- Lateral masonry walls shall be supported by a suitable bracket support system (for example, a KORBO-type system) to prevent cracking resulting from balcony deflections. The design of the ISOTEC elements does not include loads arising from lateral masonry.
- Depending on the balcony length, the ISOTEC model used and the structural configuration of the building, an expansion joint may be required to accommodate movements caused by temperature variations and to limit the resulting stresses in the ISOTEC reinforcement. The need for, and location of, such a joint are determined during the design process and taken into account in the proposed solution.
- The formwork of cast-in-place or precast cantilever elements shall incorporate an appropriate upward camber. This camber shall ensure that, once the props have been removed and the concrete has reached its required strength, the cantilever exhibits the specified slope in the correct direction.