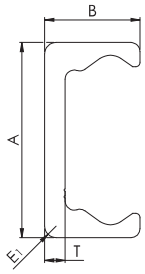
Product dimensions

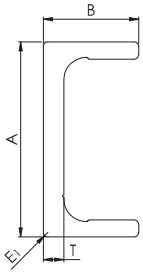
Rail T, U, K

Size 18 - 43

T-rail



U-rail



K-rail (Size 43)

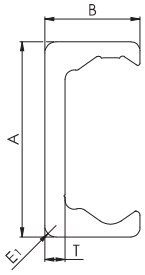
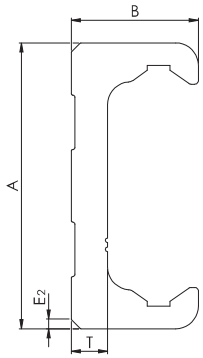


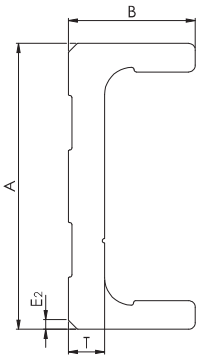
Fig. 23

Size 63

T-rail



U-rail



K-rail

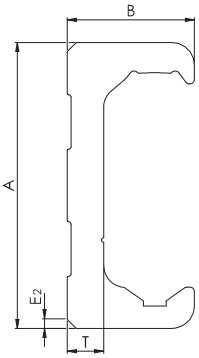
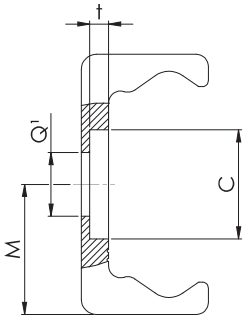


Fig. 24

Holes

Rail with C-hole



Rail with V-hole

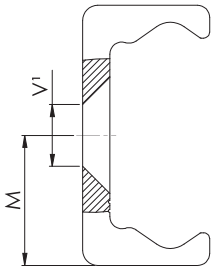


Fig. 25

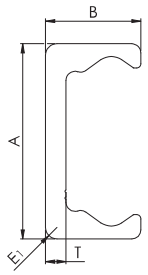
Q[1] Fixing holes for Torx® screws with low head (custom design) included in scope of supply
V[1] Fixing holes for countersunk head screws according to DIN 7991

Type	Size	A [mm]	B [mm]	M [mm]	E_1 [mm]	T [mm]	C [mm]	Weight [kg/m]	E_2 [°]	t [mm]	Q^1 [mm]	V^1 [mm]
TLC TLV	18	18	8.25	9	1.5	2.8	9.5	0.55	-	2	M4	M4
	28	28	12.25	14	1	3	11	1.0	-	2	M5	M5
	35	35	16	17.5	2	3.5	14.5	1.65	-	2.7	M6	M6
	43	43	21	21.5	2.5	4.5	18	2.6	-	3.1	M8	M8
	63	63	28	31.5	-	8	15	6.0	2x45	5.2	M8	M10
ULC ULV	18	18	8.25	9	1	2.6	9,5	0.55	-	1.9	M4	M4
	28	28	12	14	1	3	11	1.0	-	2	M5	M5
	35	35	16	17.5	1	3.5	14.5	1.65	-	2.7	M6	M6
	43	43	21	21.5	1	4.5	18	2.6	-	3.1	M8	M8
	63	63	28	31.5	-	8	15	6.0	2x45	5.2	M8	M10
KLC KLV	43	43	21	21.5	2.5	4.5	18	2.6	-	3.1	M8	M8
	63	63	28	31.5	-	8	15	6.0	2x45	5.2	M8	M10

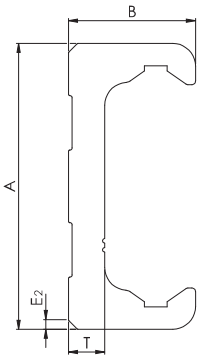
Tab. 5

Rail TR (ground custom design)

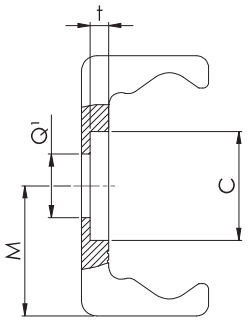
Size 18 - 43
T-rail



Size 63
T-rail



Fixing Hole



Q¹ Fixing holes for Torx® screws with low head (custom design) included in scope of supply

Fig. 26

Type	Size	A [mm]	B [mm]	M [mm]	E_1 [mm]	T [mm]	C [mm]	Weight [kg/m]	E_2 [°]	t [mm]	Q^1 [mm]
TRC	18	17.95	8	8.95	1.5	2.8	9.5	0.55	-	2	M4
	28	27.83	12.15	13.83	1	2.9	11	1.0	-	2	M5
	35	34.8	15.9	17.3	2	3.4	14.5	1.6	-	2.7	M6
	43	42.75	20.9	21.25	2.5	4.4	18	2.6	-	3.1	M8
	63	62.8	27.9	31.3	-	7.9	15	6.0	2x45	5.2	M8

Tab. 6

Rail length

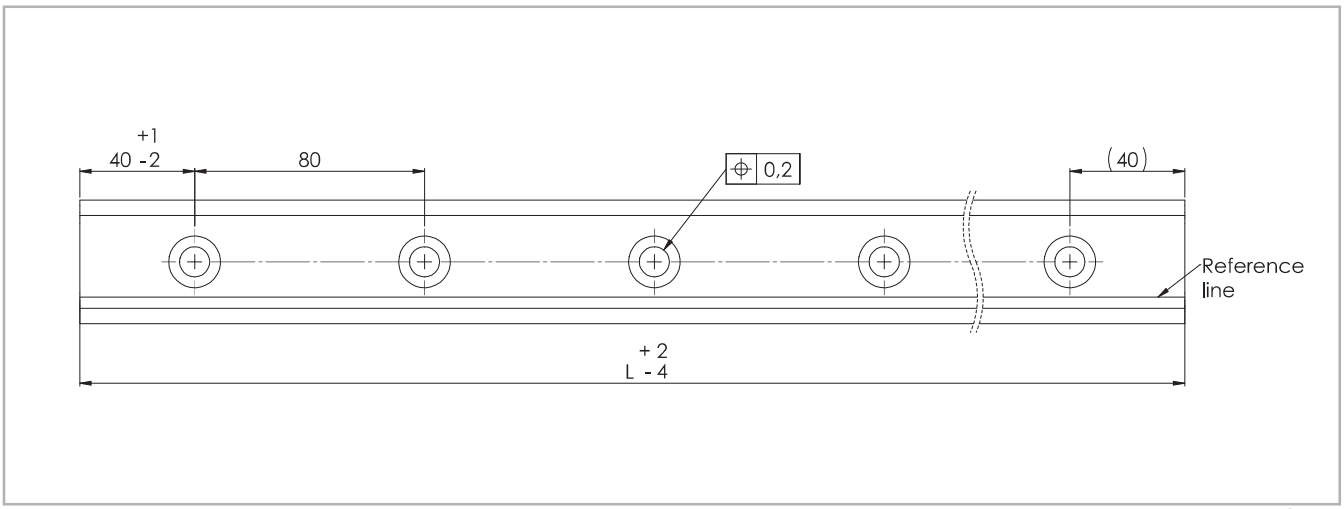


Fig. 27

Type	Size	Min length [mm]	Max length [mm]	Available standard lengths L [mm]
TLC TLV ULC ULV	18	160	2000	160 - 240 - 320 - 400 - 480 - 560 - 640 - 720 - 800 - 880 - 960 - 1040 - 1120 - 1200 - 1280 - 1360 - 1440 - 1520 - 1600 - 1680 - 1760 - 1840 - 1920 - 2000 - 2080 - 2160 - 2240 - 2320 - 2400 - 2480 - 2560 - 2640 - 2720 - 2800 - 2880 - 2960 - 3040 - 3120 - 3200 - 3280 - 3360 - 3440 - 3520 - 3600
	28	240	3200	
	35	320	3600	
	43	400	3600	
	63	560	3600	
KLC KLV	43	400	3600	
	63	560	3600	
TRC	18	160	2000	
	28	240	2000	
	35	320	2000	
	43	400	2000	
	63	560	2000	

Longer single rails up to max. 4,080 mm on request
Longer rail systems see pg. CR-66 Joined rails

Tab. 7

T-rail with N- / C-slider

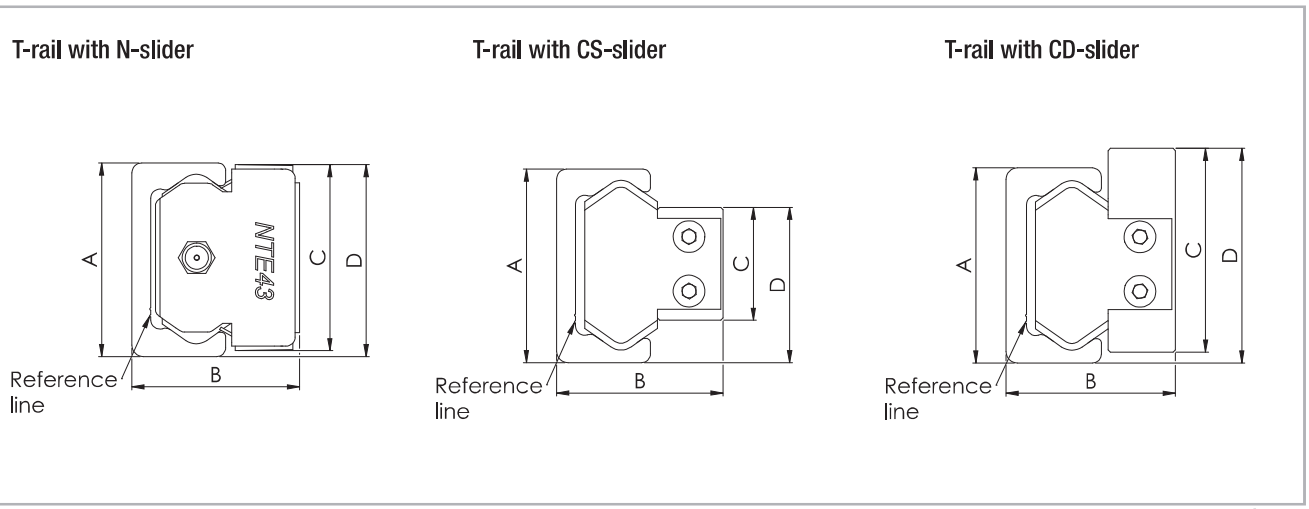


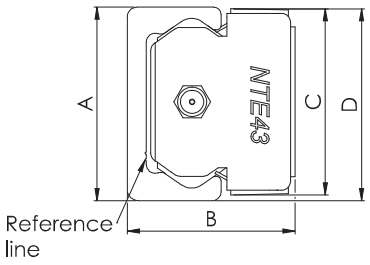
Fig. 37

Configuration	Size	A [mm]		B [mm]		C [mm]		D [mm]	
TL... / NT	18	18	+0.25 -0.10	16.5	+0.15 -0.15	17.6	0 -0.20	18.3	+0.25 -0.25
TL... / NTE	28	28	+0.25 -0.10	24	+0.25 -0.10	26.5	+0.10 -0.20	28	+0.15 -0.35
	43	43	+0.35 -0.10	37	+0.25 -0.10	40	0 -0.30	41.9	+0,20 -0.35
	63	63	+0.35 -0.10	50.5	+0.25 -0.10	60	+0.10 -0.20	62	0 -0.50
TL... / NTE...L	28	28	+0.25 -0.10	24	+0.25 -0.10	26.5	+0.10 -0.20	28	+0.15 -0.35
	43	43	+0.35 -0.10	37	+0.25 -0.10	41	0 -0.30	42.4	+0.20 -0.35
TL... / CS	18	18	+0.25 -0.10	15	+0.15 -0.15	9.5	0 -0.05	14	+0.05 -0.25
	28	28	+0.25 -0.10	23.9	+0.15 -0.15	14.9	0 -0.10	21.7	+0.05 -0.35
	35	35	+0.35 -0.10	30.2	+0.10 -0.30	19.9	+0.05 -0.15	27.85	+0.10 -0.30
	43	43	+0.35 -0.10	37	+0.15 -0.15	24.9	0 -0.15	34.3	+0.10 -0.30
	63	63	+0.35 -0.10	49.8	+0.15 -0.15	39.5	+0.15 0	51.6	+0.15 -0.30
TL... / CD	28	28	+0.25 -0.10	24.1	+0.20 -0.20	29.9	0 -0.50	32	+0.05 -0.35
	35	35	+0.35 -0.10	30.1	+0.20 -0.20	34.9	0 -0.50	37.85	+0.10 -0.30
	43	43	+0.35 -0.10	37.3	+0.20 -0.20	44.9	0 -0.50	47	+0.10 -0.30

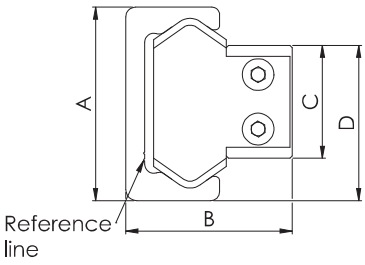
Tab. 12

TR-rail with N- / C-slider

TR-rail with N-slider



TR-rail with CS-slider



TR-rail with CD-slider

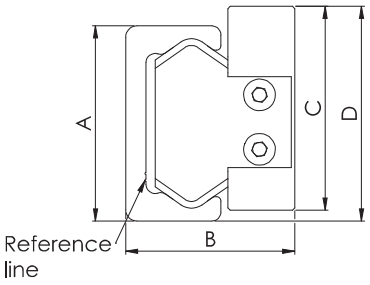


Fig. 38

Configuration	Size	A [mm]		B [mm]		C [mm]		D [mm]	
TR... / NT	18	17.95	+0.10 -0.05	16.4	+0.10 -0.05	17.6	0 -0.20	17.9	+0.15 -0.15
TR... / NTE	28	27.83	+0.10 -0.05	23.9	+0.15 -0.10	26.5	+0.10 -0.20	27.2	+0.15 -0.15
	43	42.75	+0.10 -0.05	36.9	+0.15 -0.10	40	0 -0.30	41.3	+0.15 -0.20
	63	62.8	+0.10 -0.05	50.4	+0.20 -0.10	60	+0,10 -0.30	61.3	+0.15 -0.20
TR... / NTE...L	28	27.83	+0.10 -0.05	23.9	+0.15 -0.10	26.5	+0.10 -0.20	27.2	+0.15 -0.15
	43	42.75	+0.10 -0.05	36.9	+0.15 -0.10	41	0 -0.30	41.8	+0.15 -0.20
TR... / CS	18	17.95	+0.10 -0.05	14.9	+0.10 -0.10	9.5	0 -0.05	13.8	+0.15 -0.15
	28	27.83	+0.10 -0.05	23.8	+0.10 -0.10	14.9	0 -0.10	21.3	+0.10 -0.20
	35	34.75	+0.10 -0.05	30.1	+0.10 -0.30	19.9	+0,05 -0.15	27.35	+0.10 -0.20
	43	42.75	+0.10 -0.05	36.9	+0.15 -0.10	24.9	0 -0.15	33.5	+0.10 -0.20
	63	62.8	+0.10 -0.05	49.7	+0.10 -0.15	39.5	+0.15 0	51.05	+0.15 -0.10
TR... / CD	28	27.83	+0.10 -0.05	24	+0.10 -0.20	29.9	0 -0.50	31.63	+0.10 -0.20
	35	34.75	+0.10 -0.05	30	+0.10 -0.20	34.9	0 -0.50	37.35	+0.10 -0.20
	43	42.75	+0.10 -0.05	37.2	+0.10 -0.20	44.9	0 -0.50	46.4	+0.10 -0.20

Tab. 13

U-rail with N- / C-slider

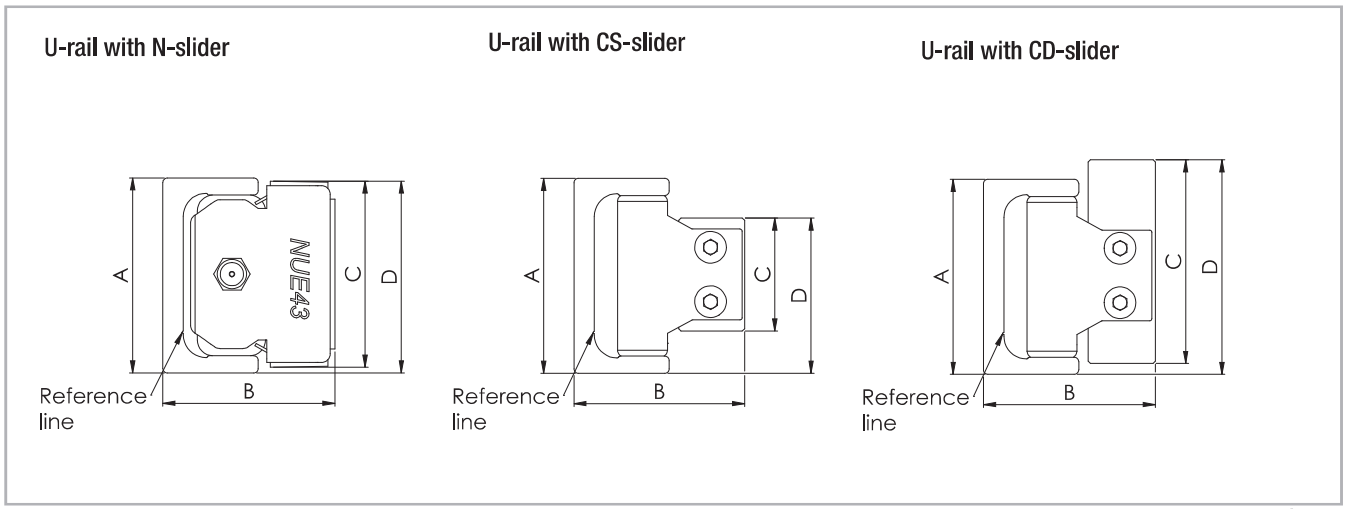


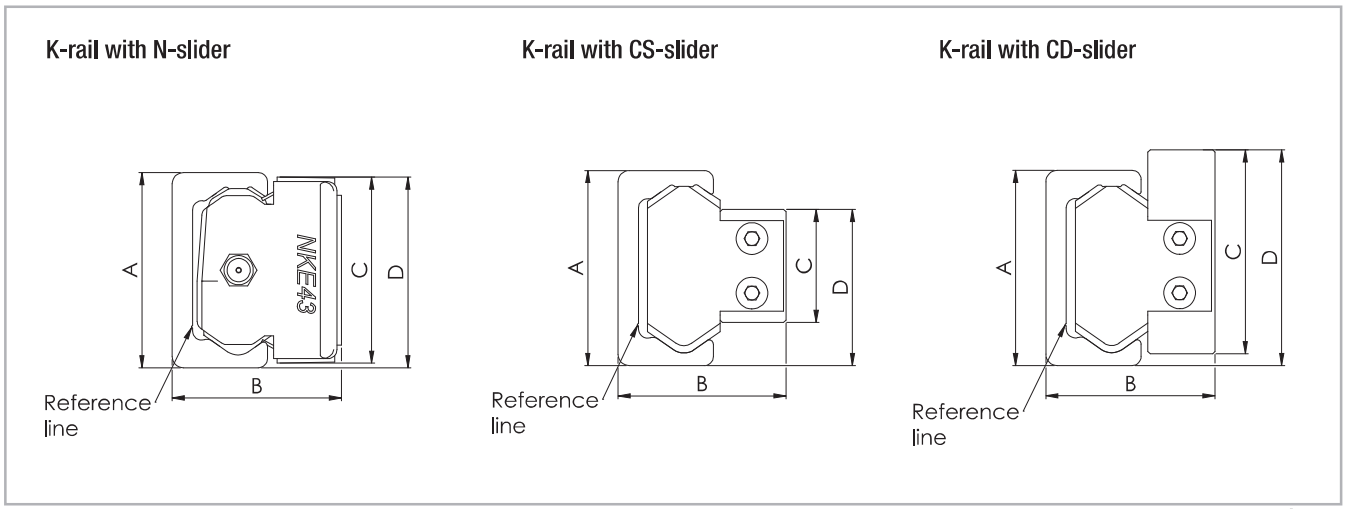
Fig. 39

Configuration	Size	A [mm]		B_{nom*} [mm]	C [mm]		D [mm]	
UL... / NU	18	18	+0.25 -0.10	16.5	17.6	0 -0.20	18.3	+0.25 -0.25
UL... / NUE	28	28	+0.25 -0.10	24	26.5	0 -0.20	28	+0.15 -0.35
	43	43	+0.35 -0.10	37	40	0 -0.30	41.9	+0.20 -0.30
	63	63	+0.35 -0.10	50.5	60	-0.20	62	0 -0.50
UL... / NUE...L	28	28	+0.25 -0.10	24	26.5	0 -0.20	28	+0.15 -0.35
	43	43	+0.35 -0.10	37	41	0 -0.30	42.4	+0.20 -0.35
UL... / CS	18	18	+0.25 -0.10	15	9.5	0 -0.05	14	+0.05 -0.25
	28	28	+0.25 -0.10	23.9	14.9	0 -0.10	21.7	+0.05 -0.35
	35	35	+0.35 -0.10	30.2	19.9	+0.05 -0.15	27.85	+0.10 -0.30
	43	43	+0.35 -0.10	37	24.9	0 -0.15	34.3	+0.15 -0.30
	63	63	+0.35 -0.10	49.8	39.5	+0.15 0	51.6	+0.15 -0.30
UL... / CD	28	28	+0.25 -0.10	24.1	29.9	0 -0.50	32	+0.05 -0.35
	35	35	+0.35 -0.10	30.1	34.9	0 -0.50	37.85	+0.10 -0.30
	43	43	+0.35 -0.10	37.3	44.9	0 -0.50	47	+0.10 -0.30

* see pg. CR-40 Offset T+U-system
see pg. CR-43 Offset K+U-system

Tab. 14

K-rail with N- / C-slider



The K-rail enables the slider to rotate around its longitudinal axis (see pg. CR-42)

Fig. 40

Configuration	Size	A [mm]		B [mm]		C [mm]		D [mm]	
KL... / NKE	43	43	+0.35 -0.10	37	+0.25 -0.10	40	0 -0.30	41.9	+0.20 -0.35
	63	63	+0.35 -0.10	50.5	+0.25 -0.10	60	+0.10 -0.20	62	0 -0.50
KL... / NKE...L	43	43	+0.35 -0.10	37	+0.25 -0.10	41	0 -0.30	42.7	+0.20 -0.35
KL... / CSK	43	43	+0.35 -0.10	37	+0.15 -0.15	24.9	0 -0.15	34.3	+0.10 -0.30
	63	63	+0.35 -0.10	49.8	+0.15 -0.15	39.5	+0.15 0	51.6	+0.15 -0.30
KL... / CDK	43	43	+0.35 -0.10	37.3	+0.20 -0.20	44.9	0 -0.50	47	+0.10 -0.30

Tab. 15

Offset of fixing holes

Principle representation of offset with T-rails

Fig. 41

Configuration	Size	δ nominal [mm]	δ maximum [mm]	δ minimum [mm]
TLC / NT	18	0.45	0.95	-0.25
TLC / NTE	28	0.35	0.85	-0.4
	43	0.35	0.9	-0.5
	63	0.35	0.8	-0.55
KLC / NKE	43	0.35	0.9	-0.5
	63	0.35	0.8	-0.55
ULC / NU	18	0.4	0.9	-0.25
ULC / NUE	28	0.4	0.85	-0.3
	43	0.4	0.85	-0.45
	63	0.35	0.8	-0.45
TLV / NT	18	0.45	0.8	-0.2
TLV / NTE	28	0.35	0.7	-0.35
	43	0.35	0.75	-0.45
	63	0.35	0.65	-0.55
KLV / NKE	43	0.35	0.75	-0.45
	63	0.35	0.65	-0.55
ULV / NU	18	0.4	0.75	-0.2
ULV / NUE	28	0.4	0.7	-0.25
	43	0.4	0.7	-0.4
	63	0.35	0.65	-0.45
TLC / CS	18	0.35	0.75	-0.2
	28	0.25	0.6	-0.35
	35	0.35	0.7	-0.35
	43	0.35	0.8	-0.35
	63	0.35	0.6	-0.35
KLC / CSK	43	0.35	0.8	-0.35
	63	0.35	0.6	-0.35

Tab. 16

Configuration	Size	δ nominal [mm]	δ maximum [mm]	δ minimum [mm]
ULC / CS	18	0.3	0.7	-0.2
	28	0.3	0.6	-0.3
	35	0.35	0.7	-0.35
	43	0.4	0.75	-0.35
	63	0.35	0.6	-0.25
TLV / CS	18	0.35	0.6	-0.15
	28	0.25	0.45	-0.3
	35	0.35	0.55	-0.3
	43	0.35	0.65	-0.3
	63	0.35	0.45	-0.35
KLV / CSK	43	0.35	0.65	-0.3
	63	0.35	0.45	-0.35
ULV / CS	18	0.3	0.55	-0.15
	28	0.3	0.45	-0.25
	35	0.35	0.55	-0.3
	43	0.4	0.6	-0.3
	63	0.35	0.45	-0.25
TRC / NT	18	0.15	0.65	-0.2
TRC / NTE	28	0.15	-0.5	-0.25
	43	0.05	0.4	-0.3
	63	0	0.4	-0.4
TRC / CS	18	0.05	0.45	-0.2
	28	0.05	0.3	-0.25
	35	0.1	0.35	-0.2
	43	0.05	0.35	-0.25
	63	0	0.2	-0.2

Tab. 17