

811250 - P - 16 mm	THRUST BLOCKS FOR VERTICAL ELBOWS AT CREST					
	D (mm)	TBW (mm)	TBL (mm)	TBH (mm)	NECK REINF.	BLOCK REINFORCEMENT
	100	600	600	300	2x5110/LM	T10@200 T&B & ALL AROUND
	125	600	600	500	2x5110/LM	T10@200 T&B & ALL AROUND
	150	700	500	500	2x5110/LM	T10@200 T&B & ALL AROUND
	200	800	800	700	2x5110/LM	T10@200 T&B & ALL AROUND
	250	1000	1000	700	2x5110/LM	T10@200 T&B & ALL AROUND
	300	1200	1200	700	2x5110/LM	T10@200 T&B & ALL AROUND
	350	1350	1300	850	2x5110/LM	T10@200 T&B & ALL AROUND
	400	1400	1400	900	2x5110/LM	T10@200 T&B & ALL AROUND
	450	1600	1600	900	2x5110/LM	T10@200 T&B & ALL AROUND
	500	1800	1800	900	2x5110/LM	T10@200 T&B & ALL AROUND
	600	2000	2000	900	2x5110/LM	T10@200 T&B & ALL AROUND
	700	2250	2200	1100	2x5110/LM	T10@200 T&B & ALL AROUND
	800	2400	2400	1200	2x5110/LM	T10@200 T&B & ALL AROUND
	900	2500	2500	1300	2x5110/LM	T10@200 T&B & ALL AROUND
1000	2800	2800	1400	2x5110/LM	T10@200 T&B & ALL AROUND	

THRUST BLOCKS FOR VERTICAL ELBOWS AT SAG						
D (mm)	FL (mm)	FW (mm)	FD (mm)	BLOCK REINFORCEMENT	NECK REINF.	
100	400	400	200	T10@200 T&B IN BOTH DIR.	2x#110	
125	400	400	200	T10@200 T&B IN BOTH DIR.	2x#110	
150	400	400	200	T10@200 T&B IN BOTH DIR.	2x#110	
200	400	400	200	T10@200 T&B IN BOTH DIR.	2x#110	
250	600	600	200	T10@200 T&B IN BOTH DIR.	2x#110	
300	600	600	200	T10@200 T&B IN BOTH DIR.	2x#110	
350	700	700	200	T10@200 T&B IN BOTH DIR.	2x#140/LM	
400	800	800	300	T10@200 T&B IN BOTH DIR.	2x#140/LM	
450	800	800	300	T10@200 T&B IN BOTH DIR.	2x#140/LM	
500	1000	1000	400	T10@200 T&B IN BOTH DIR.	2x#140/LM	
600	1200	1200	400	T10@200 T&B IN BOTH DIR.	2x#140/LM	
700	1350	1350	400	T10@200 T&B IN BOTH DIR.	2x#140/LM	
800	1400	1400	400	T10@200 T&B IN BOTH DIR.	2x#140/LM	
900	1500	1500	600	T10@200 T&B IN BOTH DIR.	2x#140/LM	
1000	1600	1600	600	T10@200 T&B IN BOTH DIR.	2x#140/LM	

THRUST BLOCKS FOR HORIZONTAL BENDS						
	D (mm)	W&H (mm)	L (mm)	T (mm)	SIDE WALL & FOOTING REINFORCEMENT	
B1.25d P = 16 Bars	100	950	550	200	110Ø200 1&B IN BOTH DIR.	
	125	950	650	200	110Ø200 1&B IN BOTH DIR.	
	150	950	650	200	110Ø200 1&B IN BOTH DIR.	
	200	800	800	200	110Ø200 1&B IN BOTH DIR.	
	250	900	900	200	110Ø200 1&B IN BOTH DIR.	
	300	1000	1000	200	110Ø200 1&B IN BOTH DIR.	
	350	1050	1050	200	110Ø200 1&B IN BOTH DIR.	
	400	1100	1100	200	110Ø200 1&B IN BOTH DIR.	
	450	1150	1150	200	110Ø200 1&B IN BOTH DIR.	
	500	1300	1300	250	110Ø200 1&B IN BOTH DIR.	
	600	1500	1500	300	110Ø200 1&B IN BOTH DIR.	
	700	1700	1700	350	110Ø200 1&B IN BOTH DIR.	
	800	1900	1900	400	112Ø200 1&B IN BOTH DIR.	
	900	2100	2100	450	112Ø200 1&B IN BOTH DIR.	
	1000	2300	2300	500	112Ø200 1&B IN BOTH DIR.	

THRUST BOLTS FOR REDUCERS						
Reducers P = 16 Bars						
Dn (mm)	dn (mm)	W (mm)	G (mm)	C (mm)	I (mm)	NECK & FOOTING REINFORCEMENT
100	60	600	600	300	300	410 T&B IN BOTH DIR.
100	90	620	600	300	300	410 T&B IN BOTH DIR.
125	60	650	750	300	300	410 T&B IN BOTH DIR.
125	90	650	650	300	300	410 T&B IN BOTH DIR.
150	100	650	650	300	300	410 T&B IN BOTH DIR.
150	90	650	650	300	400	410 T&B IN BOTH DIR.
150	80	750	850	300	400	410 T&B IN BOTH DIR.
150	100	750	7500	300	400	410 T&B IN BOTH DIR.
150	125	750	7500	300	400	410 T&B IN BOTH DIR.
200	100	900	1100	300	450	T12x200 T&B IN BOTH DIR.
200	125	900	1100	300	450	T12x200 T&B IN BOTH DIR.
200	150	900	9000	300	500	T12x200 T&B IN BOTH DIR.
250	125	1000	1350	300	500	T12x200 T&B IN BOTH DIR.
250	150	1000	1250	300	500	T12x200 T&B IN BOTH DIR.

THRUST BLOCKS FOR VERTICAL ELBOWS AT CREST						
D (mm)	TBW (mm)	TBL (mm)	TBH (mm)	NECK REINF.	BLOCK REINFORCEMENT	
100	800	800	500	2x5T10/L/V	T16@200 1x8 & ALL AROUND	
125	1000	1000	500	2x5T10/L/V	T16@200 1x8 & ALL AROUND	
150	1200	1200	500	2x5T10/L/V	T16@200 1x8 & ALL AROUND	
175	1400	1400	500	2x5T10/L/V	T16@200 1x8 & ALL AROUND	
250	1800	1800	800	2x5T10/L/V	T16@200 1x8 & ALL AROUND	
300	1800	1800	900	2x5T10/L/V	T16@200 1x8 & ALL AROUND	
350	2000	2000	1000	2x5T10/L/V	T16@200 1x8 & ALL AROUND	
400	2200	2200	1100	2x5T10/L/V	T16@200 1x8 & ALL AROUND	
450	2400	2400	1200	2x5T10/L/V	T16@200 1x8 & ALL AROUND	
500	2600	2600	1200	2x5T10/L/V	T16@200 1x8 & ALL AROUND	
600	3000	3000	1300	2x5T10/L/V	T16@200 1x8 & ALL AROUND	
700	3200	3200	1600	2x5T10/L/V	T16@200 1x8 & ALL AROUND	
800	3500	3500	1700	2x5T10/L/V	T16@200 1x8 & ALL AROUND	
900	3800	3800	1800	2x5T10/L/V	T16@200 1x8 & ALL AROUND	
1000	4000	4000	2500	2x5T10/L/V	T16@200 1x8 & ALL AROUND	

THRUST BLOCKS FOR VERTICAL ELBOWS AT SAG					
D (mm)	FL (mm)	FW (mm)	FD (mm)	BLOCK REINFORCEMENT	NECK REINF.
100	400	400	200	T10@200 T&B IN BOTH DIR.	2x4T10
125	400	400	200	T10@200 T&B IN BOTH DIR.	2x4T10
150	400	400	200	T10@200 T&B IN BOTH DIR.	2x4T10
200	400	400	200	T10@200 T&B IN BOTH DIR.	2x4T10
250	600	600	200	T10@200 T&B IN BOTH DIR.	2x4T10
300	600	600	200	T10@200 T&B IN BOTH DIR.	2x4T10
350	700	700	200	T10@200 T&B IN BOTH DIR.	2x4T10
400	800	800	300	T10@200 T&B IN BOTH DIR.	2x4T10
450	800	800	300	T10@200 T&B IN BOTH DIR.	2x4T10
500	1000	1000	400	T12@200 T&B IN BOTH DIR.	2x4T10/LM
600	1200	1200	400	T14@200 T&B IN BOTH DIR.	2x4T10/LM
700	1300	1300	400	T14@200 T&B IN BOTH DIR.	2x4T10/LM
800	1500	1500	500	T14@200 T&B IN BOTH DIR.	2x4T10/LM
900	1700	1700	600	T16@200 T&B IN BOTH DIR.	2x4T10/LM
1000	1900	1900	600	T16@200 T&B IN BOTH DIR.	2x4T12/LM

THRUST BLOCKS FOR HORIZONTAL BENDS					
	D(mm)	W&H (mm)	L (mm)	T (mm)	SIDE WALL & FOOTING REINFORCEMENT
822.5k = 1.6 Bars	100	550	550	200	110x200 T&B IN BOTH DIR.
	125	650	650	200	110x200 T&B IN BOTH DIR.
	150	650	650	200	110x200 T&B IN BOTH DIR.
	200	800	800	200	110x200 T&B IN BOTH DIR.
	250	900	900	200	110x200 T&B IN BOTH DIR.
	300	1000	1000	200	110x200 T&B IN BOTH DIR.
	350	1050	1100	200	110x200 T&B IN BOTH DIR.
	400	1100	1250	200	110x200 T&B IN BOTH DIR.
	450	1150	1300	250	110x200 T&B IN BOTH DIR.
	500	1300	1500	250	110x200 T&B IN BOTH DIR.
	600	1500	1800	300	110x200 T&B IN BOTH DIR.
	700	1700	2050	350	110x200 T&B IN BOTH DIR.
	800	1900	2350	400	112x200 T&B IN BOTH DIR.
	900	2100	2600	450	112x200 T&B IN BOTH DIR.
	1000	2300	2850	500	112x200 T&B IN BOTH DIR.

350	250	950	1700	500	650	T14200	T&B	N	BOTH	DIR
350	250	950	1700	500	650	T14200	T&B	N	BOTH	DIR
350	250	1250	1250	500	650	T14200	T&B	N	BOTH	DIR
350	300	250	1250	500	650	T14200	T&B	N	BOTH	DIR
400	250	1400	1900	500	650	T16200	T&B	N	BOTH	DIR
400	300	1400	1600	500	650	T14200	T&B	N	BOTH	DIR
400	300	1400	1600	500	650	T14200	T&B	N	BOTH	DIR
450	300	1600	2000	600	700	T16200	T&B	N	BOTH	DIR
450	350	1600	1700	600	700	T16200	T&B	N	BOTH	DIR
450	400	1600	1600	600	700	T14200	T&B	N	BOTH	DIR
450	350	1750	1750	600	750	T14200	T&B	N	BOTH	DIR
500	400	1750	1750	600	750	T16200	T&B	N	BOTH	DIR
500	450	1750	1750	600	750	T14200	T&B	N	BOTH	DIR
600	400	2100	2450	700	800	T25200	T&B	N	BOTH	DIR
600	450	2100	2250	700	800	T20200	T&B	N	BOTH	DIR
600	450	2100	2250	700	800	T16200	T&B	N	BOTH	DIR
700	500	2500	2600	700	900	T25200	T&B	N	BOTH	DIR
700	600	2500	2500	700	900	T20200	T&B	N	BOTH	DIR

THRUST BLOCKS FOR VERTICAL ELBOWS AT REINF.					
D (mm)	TBW (mm)	TBL (mm)	TBH (mm)	NECK REINF.	BLOCK REINFORCEMENT
100	800	800	650	2x5T10/LV	T10@200 TAB & ALL AROUND
125	1000	1000	650	2x5T10/LV	T10@200 TAB & ALL AROUND
150	1200	1200	650	2x5T10/LV	T10@200 TAB & ALL AROUND
175	1400	1400	650	2x5T10/LV	T10@200 TAB & ALL AROUND
250	1600	1600	1000	2x5T10/LV	T10@200 TAB & ALL AROUND
300	1800	1800	1200	2x5T10/LV	T10@200 TAB & ALL AROUND
350	2000	2000	1300	2x5T10/LV	T10@200 TAB & ALL AROUND
400	2200	2200	1400	2x5T10/LV	T10@200 TAB & ALL AROUND
450	2400	2400	1500	2x5T10/LV	T10@200 TAB & ALL AROUND
500	2600	2600	1500	2x5T10/LV	T10@200 TAB & ALL AROUND
600	2800	2800	1900	2x5T12/LV	T12@200 TAB & ALL AROUND
700	3000	3000	2200	2x5T12/LV	T12@200 TAB & ALL AROUND
800	3200	3200	2500	2x5T12/LV	T12@200 TAB & ALL AROUND
900	3400	3400	2800	2x5T12/LV	T12@200 TAB & ALL AROUND
1000	3600	3600	3100	2x5T12/LV	T12@200 TAB & ALL AROUND

		THRUST BLOCKS FOR VERTICAL ELBOWS AT SAG				
	D (mm)	FL (mm)	FW (mm)	FD (mm)	BLOCK REINFORCEMENT	NECK REINF.
2450	100	400	400	200	110x200 T&B IN BOTH DIR.	2x4T10
	125	500	500	200	110x200 T&B IN BOTH DIR.	2x4T10
	150	500	500	200	110x200 T&B IN BOTH DIR.	2x4T10
	200	600	600	200	110x200 T&B IN BOTH DIR.	2x4T10
	250	700	700	200	110x200 T&B IN BOTH DIR.	2x4T10
	300	800	800	300	110x200 T&B IN BOTH DIR.	2x4T10
	350	900	900	300	112x200 T&B IN BOTH DIR.	2x4T10
	400	1100	1100	300	112x200 T&B IN BOTH DIR.	2x4T10/LM
	450	1200	1200	400	114x200 T&B IN BOTH DIR.	2x4T10/LM
	500	1300	1300	400	114x200 T&B IN BOTH DIR.	2x4T10/LM
	600	1600	1600	500	114x200 T&B IN BOTH DIR.	2x4T10/LM
	700	1800	1800	500	116x200 T&B IN BOTH DIR.	2x4T12/LM
800	2100	2100	500	116x200 T&B IN BOTH DIR.	2x4T12/LM	
900	2300	2300	500	116x200 T&B IN BOTH DIR.	2x4T12/LM	
1000	2500	2500	500	120x200 T&B IN BOTH DIR.	2x4T12/LM	

B&C P = 16 Bars	THRUST BLOCKS FOR HORIZONTAL BENDS				
	D(mm)	W&H (mm)	L (blocks)	T (mm)	SIDE WALL & FOOTING REINFORCEMENT
	100	550	550	200	T10@200 T&B IN BOTH DIR.
	125	650	650	200	T10@200 T&B IN BOTH DIR.
	150	650	650	200	T10@200 T&B IN BOTH DIR.
	200	800	800	200	T10@200 T&B IN BOTH DIR.
	250	1000	1000	250	T10@200 T&B IN BOTH DIR.
	300	1200	1300	300	T10@200 T&B IN BOTH DIR.
	350	1300	1500	350	T10@200 T&B IN BOTH DIR.
	400	1400	1800	400	T10@200 T&B IN BOTH DIR.
	450	1500	2000	450	T10@200 T&B IN BOTH DIR.
	500	1700	2100	500	T12@200 T&B IN BOTH DIR.
	600	1900	2600	600	T14@200 T&B IN BOTH DIR.
	700	2200	3000	700	T14@200 T&B IN BOTH DIR.
	800	2500	3300	800	T16@200 T&B IN BOTH DIR.
	900	2800	3700	900	T16@200 T&B IN BOTH DIR.
1000	3000	4200	1000	T16@200 T&B IN BOTH DIR.	

900	800	3200	3200	800	1100	1268200	1&8 IN BOTH DIR.
1000	800	3200	3200	800	1200	1268200	1&8 IN BOTH DIR.
1000	800	3500	3500	800	1200	1268200	1&8 IN BOTH DIR.

	THRUST BLOCKS FOR PLAGS						SIDE WALL & FOOTING REINFORCEMENT
	D(mm)	W&H (mm)	L (mm)	t			
6- B- S- P- S-	100	350	550	200		1106200	1&8 IN BOTH DIR.
	125	650	650	200		1106200	1&8 IN BOTH DIR.
	150	650	750	200		1106200	1&8 IN BOTH DIR.
	200	600	900	200		1106200	1&8 IN BOTH DIR.
	250	1000	1100	250		1106200	1&8 IN BOTH DIR.
	300	1200	1500	300		1106200	1&8 IN BOTH DIR.
	350	1300	1700	350		1106200	1&8 IN BOTH DIR.
	400	1400	2000	400		1126200	1&8 IN BOTH DIR.
450	1500	2300	450		1126200	1&8 IN BOTH DIR.	

		THRUST BLOCKS FOR PLUGS				SIDE WALL & FOOTING REINFORCEMENT	
	D (mm)	W&H (mm)	L (mm)	t (mm)			
PLUG p - 1 to 6	100	550	550	200	1106200	T&B	IN BOTH DIR.
	125	650	650	200	1106200	T&B	IN BOTH DIR.
	150	750	750	200	1106200	T&B	IN BOTH DIR.
	180	850	850	200	1106200	T&B	IN BOTH DIR.
	200	900	900	250	1106200	T&B	IN BOTH DIR.
	300	1200	1500	350	1106200	T&B	IN BOTH DIR.
	350	1300	1700	350	1106200	T&B	IN BOTH DIR.
	400	1400	2050	400	1126200	T&B	IN BOTH DIR.
	450	1500	2300	450	1126200	T&B	IN BOTH DIR.
	500	1600	2500	500	1126200	T&B	IN BOTH DIR.
	600	1800	3000	600	1146200	T&B	IN BOTH DIR.
	700	2100	3500	700	1146200	T&B	IN BOTH DIR.
	800	2350	3900	800	1146200	T&B	IN BOTH DIR.
	900	2650	4400	900	1166200	T&B	IN BOTH DIR.
	1000	2900	4900	1000	1166200	T&B	IN BOTH DIR.

		THRUST BLOCKS FOR VERTICAL ELBOWS AT REINF.				
	D (mm)	TBW (mm)	TBL (mm)	TBH (mm)	NECK REIN.	BLOCK REINFORCEMENT
BLOCK P - 15 mm	100	1000	1000	750	2x5T10/L/V	T10@200 TAB & ALL AROUND
	125	1250	1250	750	2x5T10/L/V	T10@200 TAB & ALL AROUND
	150	1500	1500	750	2x5T10/L/V	T10@200 TAB & ALL AROUND
	200	1750	1750	1000	2x5T10/L/V	T10@200 TAB & ALL AROUND
	250	2000	2000	1200	2x5T10/L/V	T10@200 TAB & ALL AROUND
	300	2250	2250	1400	2x5T10/L/V	T10@200 TAB & ALL AROUND
	350	2500	2500	1500	2x5T10/L/V	T10@200 TAB & ALL AROUND
	400	2750	2750	1600	2x5T10/L/V	T10@200 TAB & ALL AROUND
	450	3000	3000	1700	2x5T10/L/V	T10@200 TAB & ALL AROUND
	500	3250	3250	1750	2x5T10/L/V	T10@200 TAB & ALL AROUND
	600	3500	3500	2200	2x5T12/L/V	T12@200 TAB & ALL AROUND
	700	3750	3750	2600	2x5T12/L/V	T12@200 TAB & ALL AROUND
800	4000	4000	3000	2x5T12/L/V	T12@200 TAB & ALL AROUND	
900	4500	4500	3000	2x5T12/L/V	T12@200 TAB & ALL AROUND	
1000	5000	5000	3000	2x5T12/L/V	T12@200 TAB & ALL AROUND	

Block = 16 Bars	THRUST BLOCKS FOR VERTICAL ELBOWS AT SAG					
	D (mm)	FL (mm)	FW (mm)	FD (mm)	BACK REINFORCEMENT	NECK REINF.
	100	400	400	200	T10@200 T&B IN BOTH DIR.	2x4T10
	150	500	500	200	T10@200 T&B IN BOTH DIR.	2x4T10
	200	600	600	200	T10@200 T&B IN BOTH DIR.	2x4T10
	250	700	700	200	T10@200 T&B IN BOTH DIR.	2x4T10
	300	800	800	200	T10@200 T&B IN BOTH DIR.	2x4T10
	350	1100	1100	300	T12@200 T&B IN BOTH DIR.	2x4T10/LM
	400	1300	1300	300	T14@200 T&B IN BOTH DIR.	2x4T10/LM
	450	1400	1400	300	T14@200 T&B IN BOTH DIR.	2x4T10/LM
	500	1600	1600	400	T14@200 T&B IN BOTH DIR.	2x4T10/LM
	550	1800	1800	500	T16@200 T&B IN BOTH DIR.	2x4T12/LM
	600	2100	2100	500	T16@200 T&B IN BOTH DIR.	2x4T12/LM
Block = 20 Bars	700	2500	2500	700	T16@200 T&B IN BOTH DIR.	2x4T12/LM
	800	2800	2800	800	T20@200 T&B IN BOTH DIR.	2x4T12/LM
	900	3100	3100	800	T20@200 T&B IN BOTH DIR.	2x4T12/LM
	1000	3500	3500	800	T20@200 T&B IN BOTH DIR.	2x4T12/LM

		THRUST BLOCKS FOR HORIZONTAL BENDS				SIDE WALL & FOOTING REINFORCEMENT	
		D (mm)	W&H (mm)	L (mm)	t (mm)		
P = 16 Bars	100	550	550	200		T10@200 TAB IN BOTH DIR.	
	125	650	650	200		T10@200 TAB IN BOTH DIR.	
	150	650	900	200		T10@200 TAB IN BOTH DIR.	
	200	800	1100	200		T10@200 TAB IN BOTH DIR.	
	250	1000	1300	250		T10@200 TAB IN BOTH DIR.	
	300	1200	1800	300		T10@200 TAB IN BOTH DIR.	
	350	1300	2200	350		T10@200 TAB IN BOTH DIR.	
	400	1400	2400	400		T12@200 TAB IN BOTH DIR.	
	450	1500	2600	450		T12@200 TAB IN BOTH DIR.	
	500	1700	2900	500		T12@200 TAB IN BOTH DIR.	
	600	2050	3400	600		T14@200 TAB IN BOTH DIR.	
	700	2400	3800	700		T14@200 TAB IN BOTH DIR.	
P = 20 Bars	750	2750	4300	900		T16@200 TAB IN BOTH DIR.	
	900	3100	4800	1100		T16@200 TAB IN BOTH DIR.	
	1000	3450	5300	1350		T20@200 TAB IN BOTH DIR.	

T _{EF} = p = 16 bars	THRUST BLOCKS FOR VERTICAL ELBOWS AT REIN.					
	D (mm)	TBW (mm)	TBL (mm)	TBH (mm)	NECK REIN.	BLOCK REINFORCEMENT
	100	900	900	700	2.5T10/L/V	T10x200 T6# & ALL AROUND
	125	1000		800		T10x200 T6# & ALL AROUND
	150	1200	1200	900	2.5T10/L/V	T10x200 T6# & ALL AROUND
	175	1300		1000		T10x200 T6# & ALL AROUND
	200	1500	1500	1000	2.5T10/L/V	T10x200 T6# & ALL AROUND
	250	1500		1500		T10x200 T6# & ALL AROUND
	300	1800	1800	1500	2.5T10/L/V	T10x200 T6# & ALL AROUND
	350	2000	2000	1700	2.5T10/L/V	T10x200 T6# & ALL AROUND
400	2200	2200	1900	2.5T10/L/V	T10x200 T6# & ALL AROUND	
450	2500		1800		T10x200 T6# & ALL AROUND	
500	2500	2500	2100	2.5T10/L/V	T10x200 T6# & ALL AROUND	
550	2800		2400		T12x200 T6# & ALL AROUND	
600	3200	3200	2500	2.5T12/L/V	T12x200 T6# & ALL AROUND	
800	3600	3600	2600	2.5T12/L/V	T12x200 T6# & ALL AROUND	
850	3800		3000		T12x200 T6# & ALL AROUND	
1000	4000	4000	3300	2.5T12/L/V	T12x200 T6# & ALL AROUND	

T.E. - P = 16 Bars	THRUST BLOCKS FOR VERTICAL ELBOWS AT SLAG					
	D (mm)	FL (mm)	FW (mm)	FD (mm)	BLOCK REINFORCEMENT	NECK REINF.
	100	400	450	200	T10@200 T&B IN BOTH DIR.	2x#10
	125	500	500	200	T10@200 T&B IN BOTH DIR.	2x#10
	150	500	500	200	T10@200 T&B IN BOTH DIR.	2x#10
	175	600	600	200	T10@200 T&B IN BOTH DIR.	2x#10
	200	600	600	200	T10@200 T&B IN BOTH DIR.	2x#10
	250	800	800	200	T12@200 T&B IN BOTH DIR.	2x#10
	300	900	900	300	T12@200 T&B IN BOTH DIR.	2x#10
	350	1100	1100	300	T12@200 T&B IN BOTH DIR.	2x#10/LM
	400	1200	1200	300	T14@200 T&B IN BOTH DIR.	2x#10/LM
	450	1400	1400	400	T14@200 T&B IN BOTH DIR.	2x#10/LM
	500	1500	1500	500	T16@200 T&B IN BOTH DIR.	2x#12/LM
	550	1600	1600	500	T16@200 T&B IN BOTH DIR.	2x#12/LM
	600	1800	1800	500	T20@200 T&B IN BOTH DIR.	2x#12/LM
	700	2100	2100	500	T20@200 T&B IN BOTH DIR.	2x#12/LM
	800	2400	2400	600	T20@200 T&B IN BOTH DIR.	2x#12/LM
900	2700	2700	700	T20@200 T&B IN BOTH DIR.	2x#12/LM	
1000	2900	2900	700	T20@200 T&B IN BOTH DIR.	2x#12/LM	

THRUST BLOCKS FOR HORIZONTAL BENDS					SIDE WALL & FOOTING REINFORCEMENT
D (mm)	W&H (mm)	L (blocks)	t (mm)		
100	550	550	200		110x200 1&B IN BOTH DIR.
125	650	650	200		110x200 1&B IN BOTH DIR.
150	750	750	200		110x200 1&B IN BOTH DIR.
200	800	900	200		110x200 1&B IN BOTH DIR.
250	1000	1100	250		110x200 1&B IN BOTH DIR.
300	1200	1500	300		110x200 1&B IN BOTH DIR.
350	1300	1700	350		110x200 1&B IN BOTH DIR.
400	1400	2000	400		110x200 1&B IN BOTH DIR.
450	1500	2300	450		110x200 1&B IN BOTH DIR.
500	1600	2500	500		110x200 1&B IN BOTH DIR.
600	1800	3000	600		110x200 1&B IN BOTH DIR.
700	2100	3500	700		110x200 1&B IN BOTH DIR.
800	2300	3800	800		110x200 1&B IN BOTH DIR.
900	2600	4400	900		110x200 1&B IN BOTH DIR.
1000	2900	4900	1000		110x200 1&B IN BOTH DIR.

BASIC DATA	
SOIL DENSITY	1800 kg/m ³
CONCRETE SPECIFIC WEIGHT	2300 kg/m ³
SOIL BEARING CAPACITY	2 kg/cm ²
SECURITY FACTOR	1.2

REV.	DATE	DRAWN BY	CHECKED BY	APPROVED BY	MODIFICATION	STATUS

UNITED NATIONS DEVELOPMENT PROGRAMME
LEBANON

NORTH LEBANON WATER SUPPLY
CONSTRUCTION OF WADI KHALED 2 WATER SUPPLY SYSTEM

THRUST BLOCKS

SCALE : —	DATE : SEPTEMBER 2014	DRAWING N° : WS-WK-256-A.dwg
--------------	--------------------------	---------------------------------

 **LIBANCONSULT AGM**
Consulting Engineers

N° :	REV.
W.S.W.K.2.5.6	A