STRUCTURAL COMPONENT	CLASS OF CONCRETE	GRADE OF REINFORCEMENT	CONCRETE COVER nom c_v
FOUNDATION	SW 30/25	GRADE 40/60	6.0

BENDING DIMENSIONS GIVEN ON DRAWING ARE OUTSIDE TO OUTSIDE MEASUREMENTS

BENDING SCHEDULE 13 SHEET (S) MESH SCHEDULE ./. SHEET (S)

LAST BAR MARK 116 LAST MESH MARK ./.

MINIMUM DIAMETER OF BENDING FORMER d_{br} ACCORDING TO DIN 488, 9.84 Sheet 1, Table 1 and DIN 1045, 7.88 Table 18

Diameter of bar	U-Hooks L-Hooks Loops Stirrups		Concrete cover at right angles to the plane of curvature	Bent-up and other curved bars e.g. frame corner	Inner layers of bent-up and other curved bars of more than one layer
d_s mm		d_s			
< 20	$4d_s$	all diameters	≥5cm and ≥3d_s	$15d_s$	$22{,}5d_s$
20-28	$7d_s$	all diameters	≤5cm or ≤3d_s	$20d_s$	$30d_s$

SPACERS: ACCORDING TO DBV-NOTES "SPACERS"(FOR TYPE) AND "CONCRETE COVER"(TAB.4 FOR ARRANGEMENT)

MATERIALS

NOMINAL CLASS OF CONCRETE:
SEE TABLE RIGHT HAND

NOMINAL CLASS OF STEEL:
STEEL BAR (GRADE 40/60)
WIRE MESH ...
PRESTRESSED STEEL ....
ACC. TO EGYPTIEN STANDARD ES 262/88

CLASSES OF CONCRETE

CLASS	DESCRIPTION	WALL TH.(cm)	CONDITION	STRENGTH (MPa)①	MAX.GRAIN (mm)
MW30/25	MASSIVE ELEMENTS IN CONTACT WITH WATER	≥60	WET	30	25
MD30/25	MASSIVE ELEMENTS NOT IN CONTACT WITH WATER	≥60	DRY	30	25
SW35/25	STRUCTURAL ELEMENTS IN CONTACT WITH WATER	<60	WET	35	25
SD30/25	STRUCTURAL ELEMENTS NOT IN CONTACT WITH WATER	<60	DRY	30	25

① CHARACTERISTIC COMPRESSIVE STRENGTH AFTER 90 DAYS, EXCEPT CLASS SD30/25; FOR THIS CLASS AFTER 28 DAYS

MINIMUM OVERLAPPING AND ANCHORING LENGTH:

(ONLY VALID IF NONE DETAIL INFORMATIONS ARE GIVEN ON THE DRAWING LOCALLY)

SPLICE LENGTH OF REBARS (OVERLAPPING DIMENSIONS IN CM)

	Φ10	Φ12	Φ14	Φ16	Φ18	Φ20	Φ22	Φ25	Φ28
GENERAL	50	55	65	100	115	125	140	160	180
TOP LAYER	70	85	100	150	170	190	210	240	270

FOR 50% SPLICES, THE GIVEN VALUES ARE TO BE MULTIPLIED BY FACTOR 0,82.

ANCHORING LENGTH OF REBARS

	Φ10	Φ12	Φ14	Φ16	Φ18	Φ20	Φ22	Φ25	Φ28
GENERAL	30	35	40	45	50	60	65	75	80
TOP LAYER	60	70	80	95	105	115	130	145	160

LEGEND
c= CENTER
t= TOP
b= BOTTOM
i= INSIDE
o= OUTSIDE
1.L.= FIRST LAYER
2.L.= SECOND LAYER
3.L.= THIRD LAYER
4.L.= FOURTH LAYER

BENDING SCHEDULE FOR ONE UNIT ONLY !

LEGEND OF REINFORCEMENT

1 TO 199 STEEL BARS

300 TO 399 PRESTRESSED STEEL

A TYPE OF SUPPORT TOWER

REFERENCE DRAWINGS

L-C C 05 1000	CONCRETE STEP I - PART 1, FOUND. SLAB PLAN & SECTIONS
L-C C 05 1001	CONCRETE STEP I - PART 1, FOUND. SLAB DETAILS & SECTIONS
L-G C 03 0001	GENERAL NOTES

COMPLEMENTARY DRAWINGS

L-C R 05 1700	CONCRETE STEP I - PART 1, FOUND. SLAB TOP & BOTTOM LAYER
L-C R 05 1702	CONCRETE STEP I - PART 1, FOUND. SLAB SHEAR BARS AND DETAILS