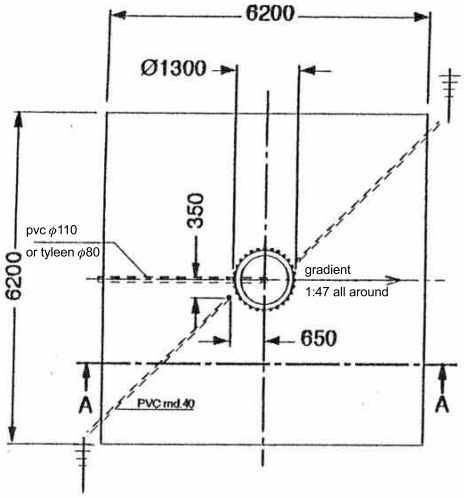
Attached two foundation drawings as an example for the foundation for the WES18-30m.

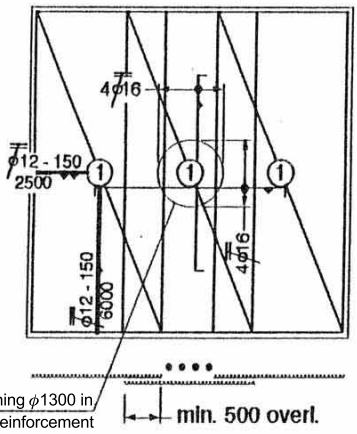
For the foundation for a WES18 with 30m tower the following load set is applicable:

Tower	WES18-30	
	Normal operation	Extreme operation
Fv	149 kN	149 kN
Fh	23,2 kN	48,4 kN
M	441 kN	1136 kNm

The design and size of the foundation to use is depending on the local soil condition and local regulations and has to be engineered by a local foundation expert.



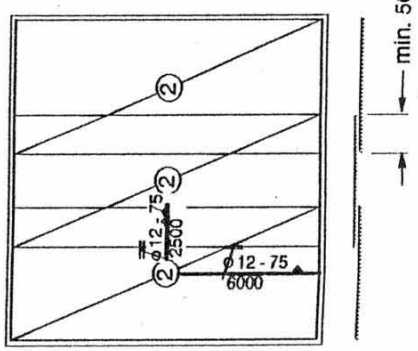
Top reinforcement

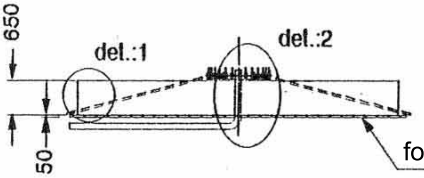


opening ϕ1300 in top reinforcement

min. 500 overl.

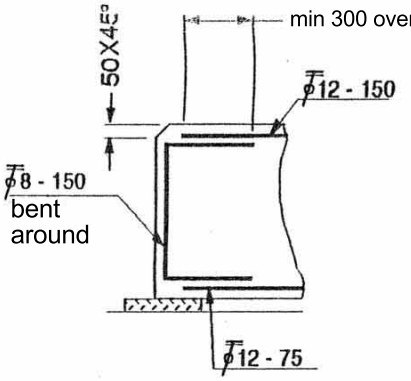
Bottom reinforcement



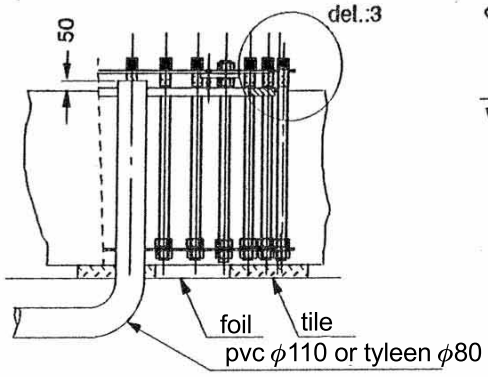


foil with concrete tiles 300x300x50

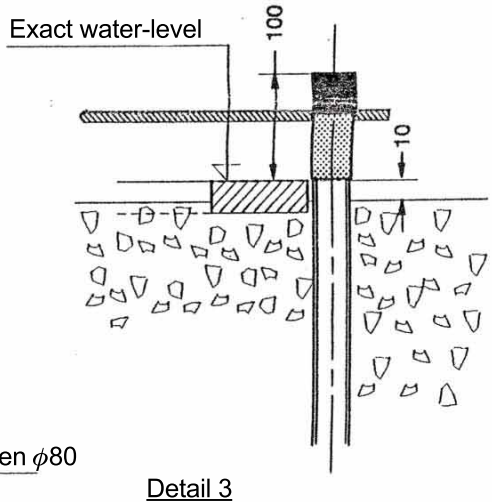
Cross section A-A



Detail 1
scale: 1:20



Detail 2
scale: 1:20



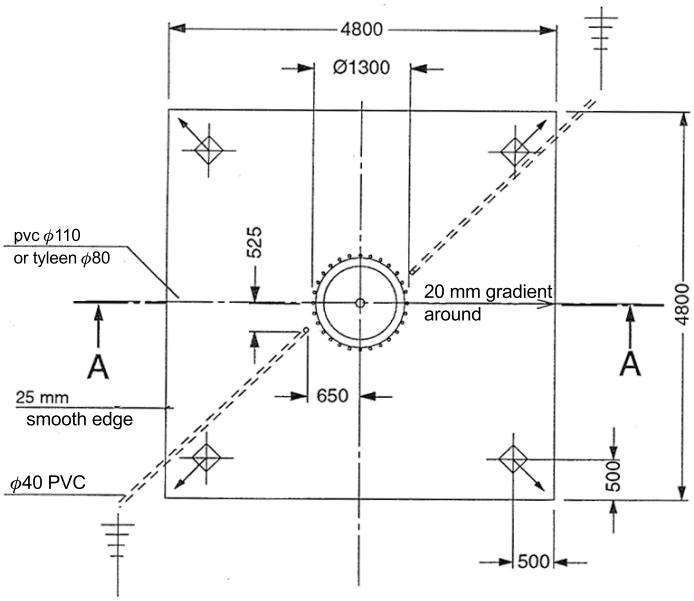
Detail 3
scale: 1:5

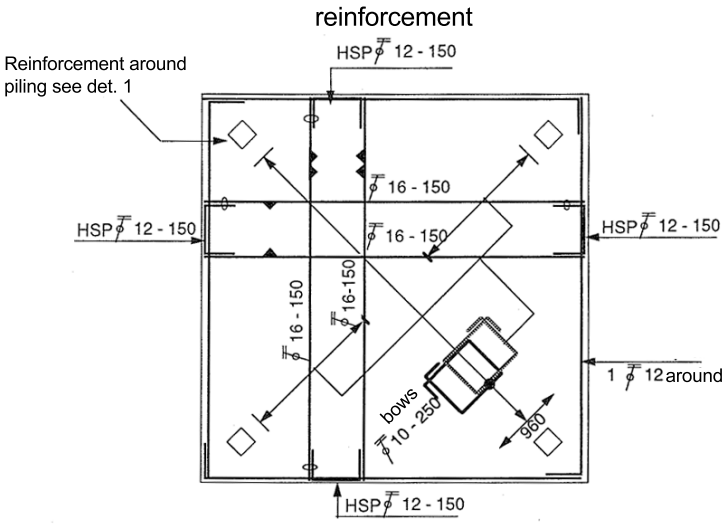
concrete	:	strength class B25 pebble size 4-32
cement	:	HC class A
rebar	:	FeB 500
bending	:	bow 5 ϕk; rebar 10 ϕk
unmoulding	:	fcn ≥ 25 n/mm2
min. covering	:	40 mm

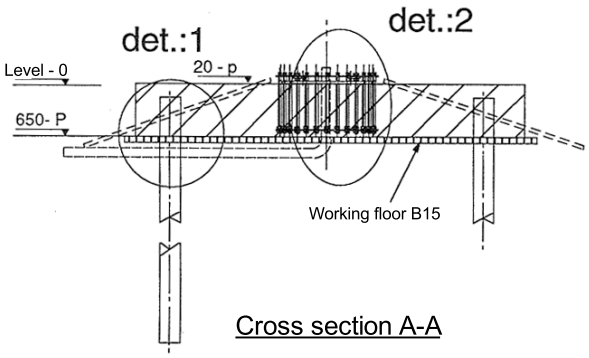
PVC ϕ110 with curve or tyleen ϕ80.
Mark where the tube is coming
out of the foundation

18/10/95

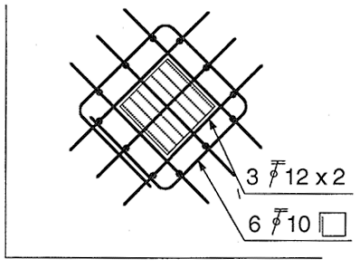
Eurp. prof.	FOUNDATION AND REINFORCEMENT 30M TOWER	Ref.:
Wind Energy Solutions Zijdewind, the Netherlands www.windenergysolutions.nl	Drawn by: e.l	Date: 03-02-92
	Scale: 1:100 1:20 1:5	Form.: A3
	Draw. nr: F.2589	Mod.:



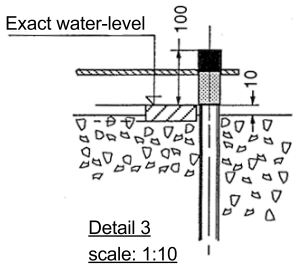




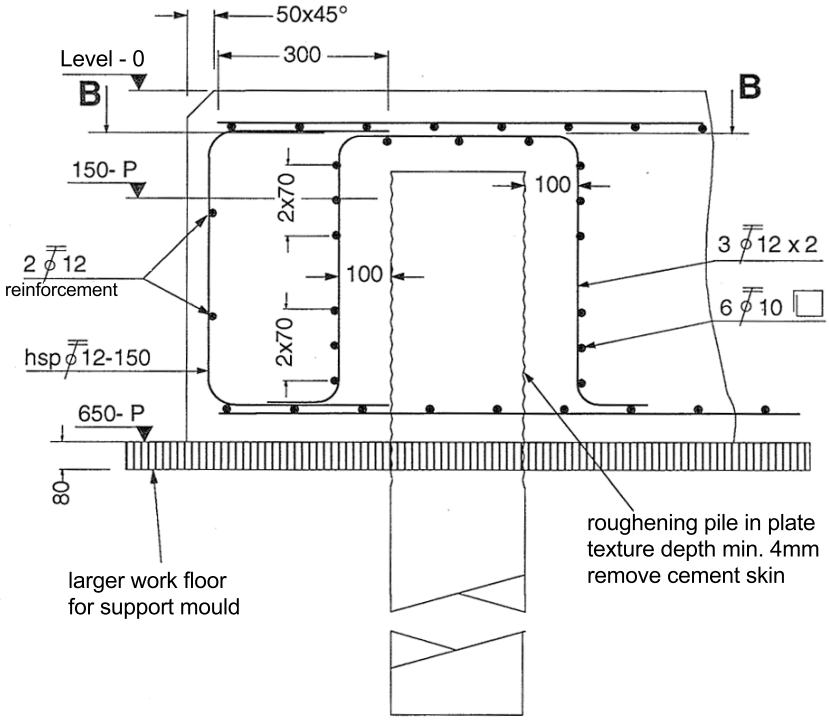
Cross section A-A



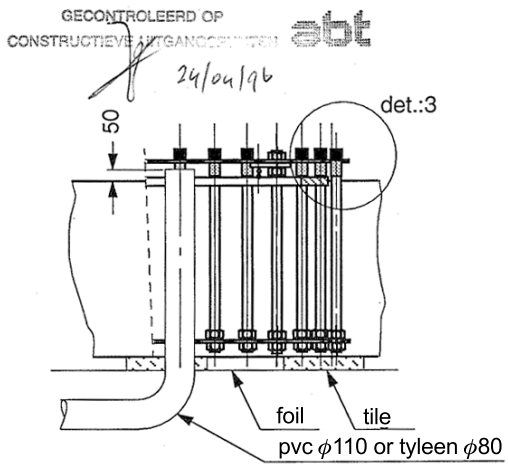
Cross section B-B
Top view reinforcement
hsp around piling. scale 1:20



Detail 3
scale: 1:10



Detail 1 scale: 1:20



Detail 2
scale: 1:20

piles	: standard according local foundation advisor
concrete	: strength class B25 pebble size 4-32
cement	: HC class A
rebar	: FeB 500
bending	: bow 5 ϕk; rebar 10 ϕk
unmoulding	: fcn ≥ 25 n/mm2
min. covering	: 40 mm

PVC ϕ110 with curve or tyleen ϕ80.
Mark where the tube is coming
out of the foundation

Eurp. proj. FOUNDATION ON PILING 30M TOWER	Draw. Nr F.2804 b	Pos. ref.:
Wind Energy Solutions, Zijdewind, the Netherlands, www.windenergysolutions.nl	Date 08 - 07 - 92	Partl. ref.: --
	Scale 1:5 1:10 1:20 1:67	Mod.: 23-04-96
	e.l	