

# STABILIZATION PROGRAMM FOR KITS

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How to use the PALFINGER  
stabilization programm for kits  
solutions?

# KITS STABILIZATION PROGRAMM

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## Information needed before starting to use the program:

- Model of the Access Platform
- Truck
- Preliminary drawing

## Introduction to stability check program

Before starting using the program useful information are provided to the user.

## How to fulfil the form:

Information available on the truck specification provided by the producer

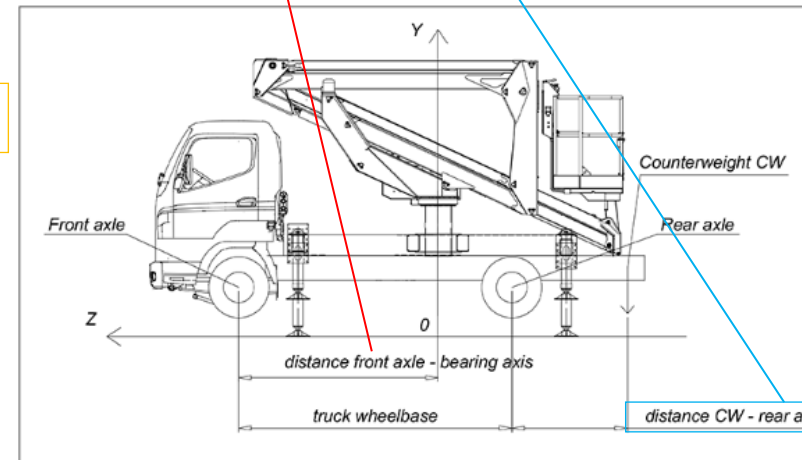
**COWNTEWEIGHT:** start the simulation with value zero and if necessary increase it.

X is the length of the crossbar

## Stabilizers coordinates in [X-Z] reference:

Consider the «0» the turret

Weight of truck front axes:	12000	N
Weight of truck rear axes:	5000	N
Admissible values on truck front axes:	25000	N
Admissible values on truck rear axes:	55000	N
Admissible installation weight:	75000	N
Counterweight:	0	N
Distance of counterweight from rear axle:	1000	mm
Distance front axle-bearing axis:	1500	mm
Truck wheelbase:	3300	mm
Stabilizers coordinates in [X-Z] reference:		
1 X	1100	(must be >0)
2 X	1100	(must be >0)
3 X	-1100	(must be <0)
4 X	-1100	(must be <0)
1 Z	1600	(must be >0)
2 Z	-1100	(must be <0)
3 Z	-1100	(must be <0)
4 Z	1600	(must be >0)
Chosen kit: P200A		
Chosen rules: EN 280		
<input type="button" value="Submit"/>		



# OUTPUT

Angle	Safety Factor
0	1.07
10	1.085
20	1.136
30	1.242
40	1.072
50	0.921
60	0.849
70	0.811
80	0.792
90	0.786
100	0.792
110	0.811
120	0.849
130	0.921
140	1.072
150	1.181
160	1.128
170	1.101
180	1.093
190	1.101
200	1.128
210	1.181
220	1.072
230	0.921
240	0.849
250	0.811
260	0.792
270	0.786
280	0.792
290	0.811
300	0.849
310	0.921
320	1.072
330	1.242
340	1.136
350	1.085

All the «safety factors» should have a value  $> 0$ .

The highlighted in **red values** point out the angle in the drawing on the right that could cause an overturning situation

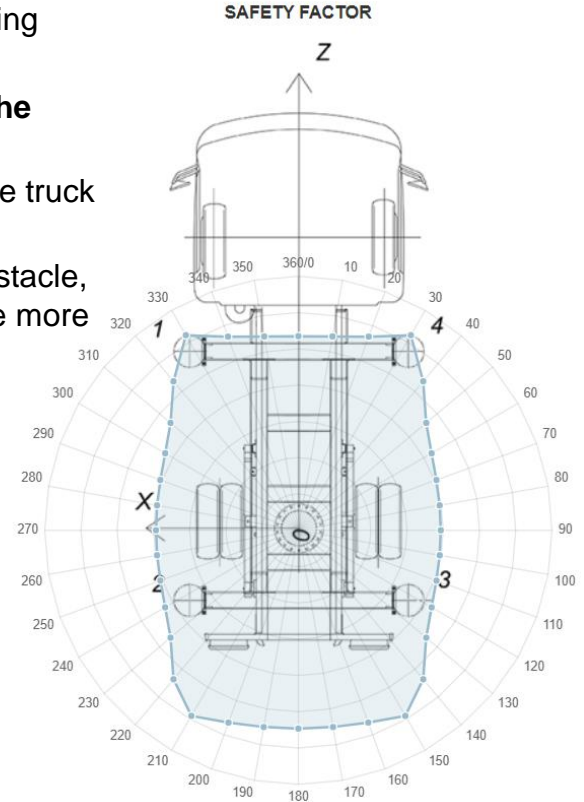
## Main factors that could affect the stability of the AWP:

- Positioning of the turret, more it is closer to the truck cabin less is the stability.
- Positioning of the stabilizers, if there are no obstacle, place the stabilizer close to the truck cabin give more stability to the AWP.

## Results.

- The program take in consideration the worst situation (max load in the cage and max boom out)
- Provides suggestion on which type of stabilizers choose
- It doesn't take in consideration passenger, fuel tank)

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# KIT SOLUTION

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Discover our model of [Kit Solutions](#).

Discover the [Stabilization Programm](#)

