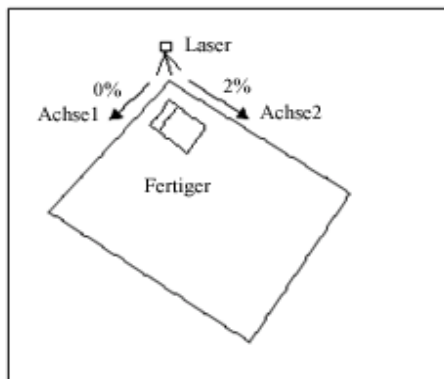


Screeding System Power Plan PP

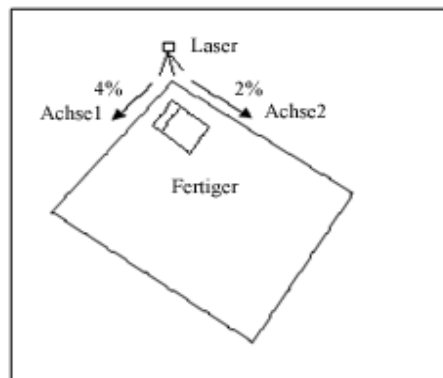
Installation of different material with the aid of:

Laser Technology

Laser technology will be used when the screeding surface has one or two inclinations. For this purpose the two axes as well as those inclinations have to be known, so that the laser can be placed and adjusted on the intercept point of these two axes.



1 Neigung



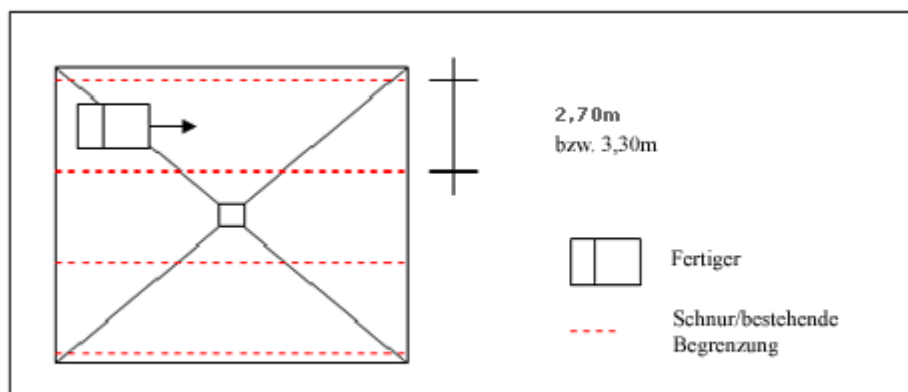
2 Neigungen

Fertiger=screeding machine
Achse= axis
1 Neigung= one inclinations
2Neigungen= two inclinations

Ultrasonics

The ultrasonic will be used, if the screeding surface has several inclinations as for example hopper slopes or small areas with different heights.

For one track two exact parallel running cords have to be spanned. By reading this cord the ultrasonic signals to the screeding machine. The ultrasonic can be spread out to up to 8,86m if necessary (e.g. if two kerb stones rows can be used).



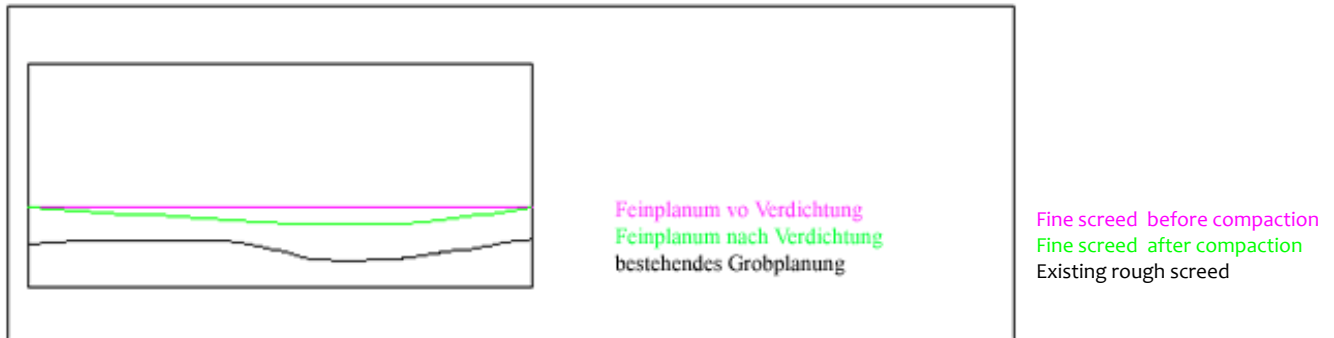
Trichtergefälle

Fertiger= screeding machine
Schnur= cord
Bestehende Begrenzung=
given boundary
Trichtergefälle= hopper inclination

WHAT MUST BE PREPARED ?

The height of the axis of the surface must be known and defined, in order to allow the screeding machine to start with the installation without delay.

The rough screed should not have higher difference than ± 5 cm, otherwise it could arise unevenness (it should be around ± 1 cm) after compaction of the fine screed.

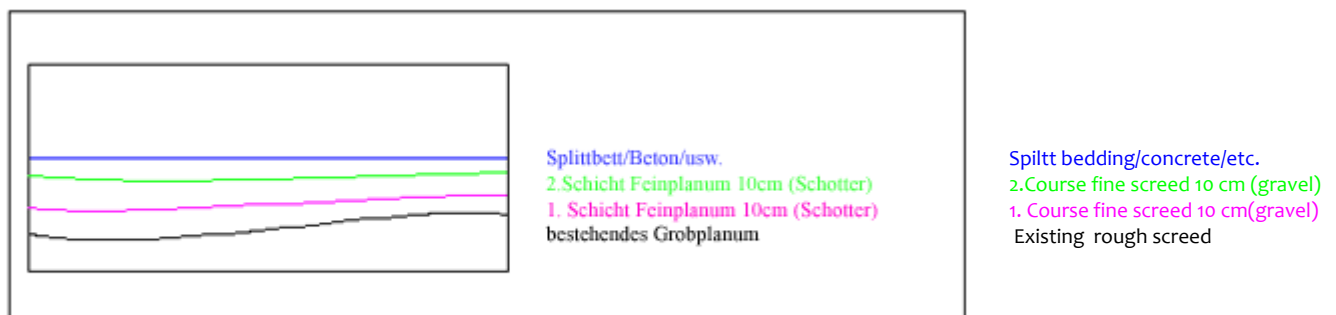


Falsche Einbauweise bei großen Höhenschwankungen des Grobplanums

Wrong installation by large height differences of the rough screed.

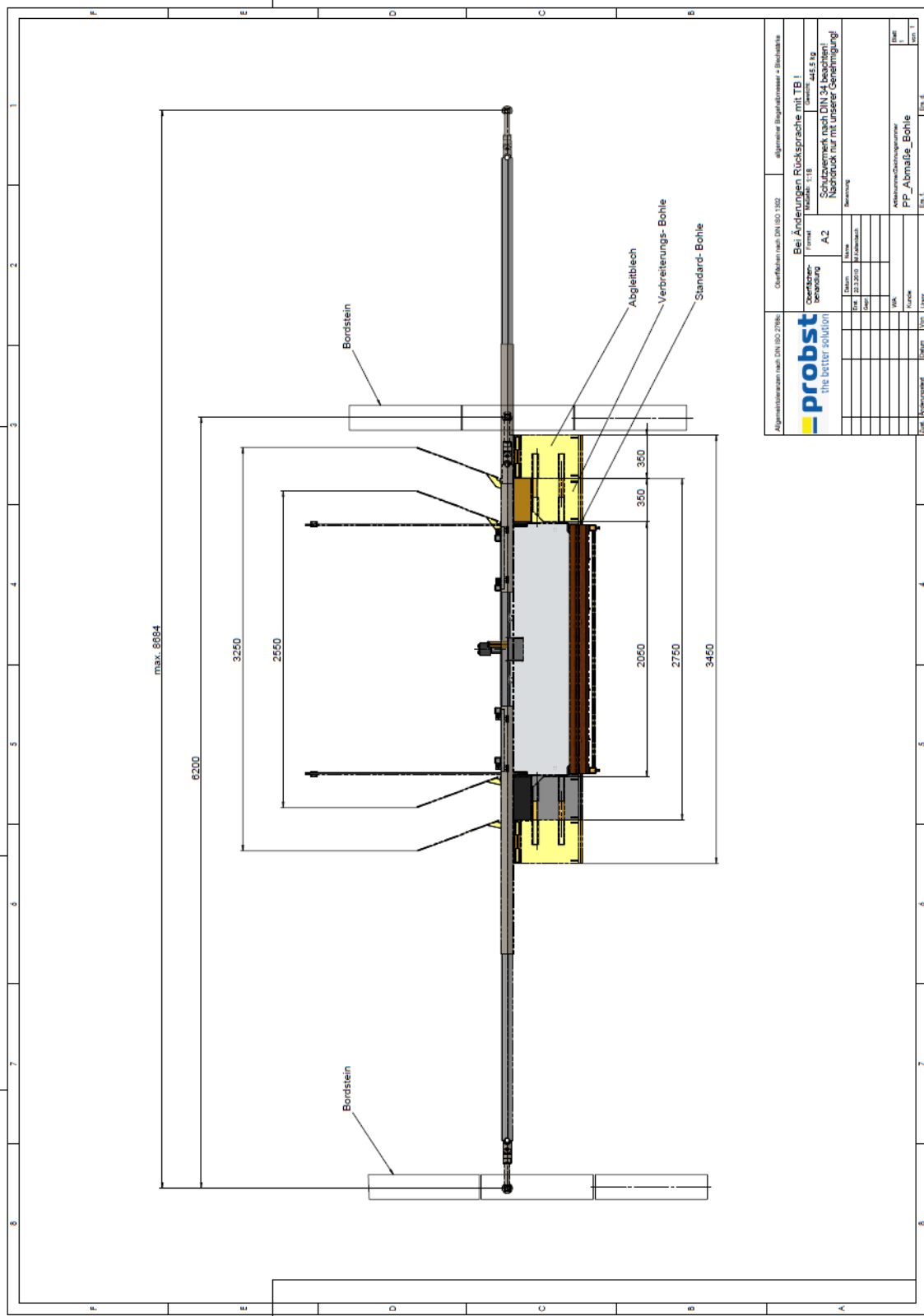
As you can see, in the area where higher screed thickness was installed, the surface sinks stronger than the areas with lower screed thickness. Thus an uneven fine screed is the result, although with the screeding machine theoretically a ± 3 mm exact fine screed can be achieved (practically: ± 5 mm).

In case that large height differences should be even, it would be advisable, to install in several courses. Indeed the maximum installation thickness is approx. 20 cm, but economically this is not advisable, due that the screeding machine is not a pouring machine, like e. g. a crawler, grader or excavator, but a precision machine.



Richtige Einbauweise bei großen Höhenschwankungen des Grobplanums

Correct way of installation when dealing with big height differences



WHAT ELSE DO I NEED?

To guarantee a smooth and effective run through and to achieve the maximum success you need the following:

- 1 – 2 wheel loaders plus driver to load the screeding machine
- Pins for the cords at the length of approx. 50cm
- 2-3 workers, helping the screeding driver, preparing the operation of the screed board, readjusting the edges or move obstacles. Using ultrasonics the cords have to be prepared beforehand.

Please note:

- ***In order to screed around inspection points (Gullis) and channels you can cover those with steel plates on the height of the surface, so that the screeding machine passes over it. .***