Project Request Form (PRF)

Load Support System

Project:

Distributor: _____

Project Name: _____

City: _____

Estimated SoilWeb® area (L x W):

_____m x _____m = _____m²

Tender: Yes ☐ No ☐

Projected Bid Date: _____

Planned construction: _____

Known competitors: _____

Describe problem to be solved by the SoilWeb® system:
(Please provide a sketch or cross section!)

_____

_____

_____

Alternative/ Conventional way of construction (without SoilWeb®):

_____

_____

SoilWeb® Construction Design Method Standards:

- National Annex - **Eurocode 7 DIN EN 1997-1/NA:2010-12:** Geotechnical design - Part 1: General rules
- German Standard **DIN 4017**: proof of sufficient safety against shear failure (limited state analysis)
- German Standard **DIN 4019:** Settlements are calculated on basis of soil failure (serviceability analysis)
- **BR470** WORKING PLATFORMS FOR TRACKED PLANT

Disclaimer/ Limitation of use

The accuracy of preliminary designs / evaluations based on PRFs depends on the quality of the provided data. Specific values / information which cannot be provided reduce the quality and reliability of preliminary designs since comparable values have to be assumed. Evaluations / Preliminary designs are copyrighted and specifically based upon the unique characteristics of Soiltec's SoilWeb® products, the general European Geotechnical Guidelines and our research work. A final design shall be prepared by a licensed professional engineer based on actual field conditions or can be ordered separately with us.

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Design information

- ☐ Redevelopment
- ☐ New construction
- ☐ Paved construction
- ☐ Unpaved construction
- ☐ Temporary construction
- ☐ Permanent construction

Kind of construction?

- ☐ Major Highway
- ☐ Industrial area
- ☐ Parking area
- ☐ Public Highway
- ☐ Container Terminal
- ☐ Agricultural road
- ☐ Airport
- ☐ Railway
- ☐ Dyke/ Levee
- ☐ Private Road
- ☐ Other_____

Requirements (SoilWeb® stabilized construction)

Minimum E-v2 value on top of the construction (MN/ m²)_____

or Minimum CBR-value on top of the construction (%)_____

or Maximum allowable deformation (mm)_____

Load parameter (according to DIN 1072)

- ☐ Truck 60 tons (P = 100 kN; A = 0,12 m²; σ = 833 kN/m²)
- ☐ Truck 30 tons (P = 50 kN; A = 0,08 m²; σ = 625 kN/m²)
- ☐ Truck 16 tons (P = 50 kN; A = 0,08 m²; σ = 625 kN/m²)
- ☐ Truck 12 tons (P = 40 kN; A = 0,06 m²; σ = 666 kN/m²)
- ☐ Van 9 tons (P = 30 kN; A = 0,052 m²; σ = 577 kN/m²)
- ☐ Van 6 tons (P = 20 kN; A = 0,04 m²; σ = 500 kN/m²)
- ☐ Van 3 tons (P = 10 kN; A = 0,04 m²; σ = 250 kN/m²)
- ☐ Car (P = 7 kN; A = 0,04 m²; σ = 175 kN/m²)
- ☐ Other_____

Max. axle load _____ kN Contact area (tyre)_____ m²

Number of axles/ tyres _____ Tyre pressure _____ kN/m²)

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Load repetitions

Estimated number of crossings?

- ☐ more than 32 Million
- ☐ between 10 and 32 Million
- ☐ between 3 und 10 Million
- ☐ between 0.8 und 3 Million
- ☐ between 0.3 and 0.8 Million
- ☐ between 0.1 and 0.3 Million
- ☐ less than 0.1 Million
- ☐ Other

Crossings/ Day _____

Design life _____ (Years)

Crossings/ Design life _____

Subgrade

Plate load test, E_{V2}-value [MN/m²] _____

or California bearing ratio, CBR-Wert [%] _____

or undrained cohesion; c_u-value [kN/m²] _____

Module of stiffness [MN/m²] _____

Angle of internal friction [°] _____

Specific weight [kN/m³] _____

Ground water table [m] _____

Filling material SoilWeb®

Angle of internal friction [°] _____

Max. grain size [mm] _____

Conventional pavement design without SoilWeb®

Layers	Angle of internal friction [°]	Specific weight [kN/m²]	Layer thickness [m]	Module of stiffness E_s [kN/m²]
1				
2				
3				
4				
5				

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Additional information

Layers are modifiable ☐ not modifiable ☐

Total construction thickness modifiable ☐ not modifiable ☐

If no data (load parameters, subgrade, filling material) is provided, following values will be used for the calculation:

Traffic load:	SLW 60 (60 tons), 10 Million crossings (paved constructions)/ 1 Million crossings (unpaved constructions)
Allowable deformation:	10 mm (paved constructions), 50 mm (unpaved constructions)
Subgrade:	E_{V2} = 10 MN/m² / CBR 2%
Filling material:	Angle of internal friction = 35°

Logistics information

☐ Cost estimation

☐ Quotation

☐ Preliminary design/ Calculation needed by (date): _____

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