

[Stone Column] HySPEED Method

Stone Columns, Stein Pfeil, Steen Kolon, Petro Colonne, Ground Improvement, Erdeverhardening



■ Basic Principle: Composer (Composite Ground)

This method is designed mainly to strengthen bearing capacity, to reduce consolidation settlement, to strengthen horizontal resistance, and to prevent from liquefaction. In case of loading of building weight on the improved ground, stone columns are loaded in 2/3~3/4's weight of building. Load on weak ground is to be reduced mostly. This means, the load of building is distributed onto the stone columns as well as onto the weak ground. This situation is expressed by composer".

The most part of building's weight is loaded on stone columns. The rest of load is loaded on weak ground,

which the load is mostly reduced. Therefore the whole improved ground is stabilized.

Adding to this, the function of stone columns, (drain function), is to prevent liquefaction

by reduction of void water pressure. It is desirable to be understood that this method can

strengthen the bearing capacity and prevent liquefaction.

■ The Characteristics of Stone Columns

Quality Improvement
Loading Test
Liquefaction
Workability

For Environment
Soil Contamination
CO2 Reduction
Industrial Waste

Asset qualification
Ground Devaluation
Asset Protection
Ground Treatment

Loading Test:

Hyspeed must have a Loading test in order to check strength of ground after construction.

Liquefaction:

Hyspeed is to be made of stones(crushed-stone, 20-40mm diameter)

Workability:

Speed of construction is an important matter concerning of budget management in project. Hyspeed is quite well in this respect. Simple construction materials and construction flows make whole project effectively short in time.

Soil Contamination:

This matter has possibility to influence an asset of house owner. If the ground has contamination, as a matter of course, there should have an obligation to get

CO2 Reduction:

Our earth urges us to reduce CO2. The matter of CO2 is to change our life style and whole our social and industrial systems.

Industrial Waste:

If there are some industrial wastes in the ground, firstly, evaluation of ground value can be devaluated because of

Ground Devaluation:

In asset management

Asset Protection:

To protect asset

Ground Treatment:

Matter of risk in the future.

■ **Questions:** If you have some questions, please check the followings and send to us. (Fax and e-mail available)

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