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Mse Walls

*Rigid Inclusions For  
Support Of Embankments  
And Mse Walls*

***Rigid Inclusions***

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**Animation Rigid  
Inclusions Animation |  
Keller**

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***10.23.12 Analysis of  
Rigid Inclusions***

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***Installation steel cage  
inside rigid inclusion***

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***column (CMC, KGM)***

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***CMC ( Controlled Modulus  
Columns ) Rigid  
Inclusions Animation  
Geopier® Ground  
Improvement Solutions  
Using Rigid Inclusion***

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**Technology CMC Rigid  
Inclusions for the IADOT  
- Council Bluffs, IA  
Menard Group USA - MNDOT  
9 mile Creek - CMC Rigid  
Inclusions Reimagining  
Disability \u0026**

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**Inclusive Education |**

**Jan Wilson |**

**TEDxUniversityofTulsa**

**MetroPoint , New Jersey**  
**- CMC Rigid Inclusions,**  
**Dynamic Compaction and**  
**Rapid Impact Compaction**

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~~**What are Controlled  
Modulus Columns? 360  
Virtual Reality - CMC  
Rigid Inclusion Test  
Installation Inclusive  
Education - Education  
Equity Now Allyship: How**~~

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***Being An Ally Can Help  
You Create An Inclusive  
Workplace » Karen Catlin  
installation Ground  
Anchor WITOW GROUND  
IMPROVEMENT Salesforce  
shares steps for***

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***building a diverse and  
inclusive workplace  
Teaching Children with  
Autism***

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***What are stone columns ?  
Teaching in the  
Inclusive Classroom -***



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**Instructional Strategies**  
**for All Students - 3**

**Graduate Credits BAUER**

**Maschinen GmbH – Dynamic**

**Compaction Eagle mine**

**Dynamic Compaction By**

**Menard Group USA CMC**

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***Rigid Inclusions and RIC  
Rapid Impaction***

***Compaction RIC - 360 VR  
Virtual Reality***

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***Column Grout Modulus  
(KGM) or Rigid Inclusion  
CMC for Bridge Approach***

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## ***Embankment***

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***Weaving a Big Coat (with  
Self-Striping Yarns and  
Saori Sewing) ~~CMC rigid  
inclusions in BALTIMORE~~  
GeoSpring 1.0 \_ Pre-  
Design Rigid Inclusions***

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***Rigid inclusions Omega  
by Franki Foundations  
Pacific Highway Upgrade  
- Menard CMC Rigid  
Inclusions Installation  
- Pimlico to Teven  
GROUND INCLUSIONS Rigid***

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***Inclusions For Support Of***

***Typically used for.***

***Rigid inclusions is a ground improvement method using high deformation modulus***

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***columns constructed through compressible soils to reduce settlement and increase bearing capacity. Ground improvement efficiency depends on the stiffness***

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***relationship between the  
soil and the columns.***

***Rigid inclusions |  
Keller UK***

***Rigid inclusions are a  
ground improvement***

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***method using high  
deformation modulus  
columns constructed  
through compressible  
soils to reduce  
settlement and increase  
bearing capacity. This***



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***allows the use of shallow foundations to support structures on compressible soils. Soil reinforcement with rigid inclusions reduces settlements very***

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Support Of Embankments And  
Mse Walls

***efficiently (with***

***Rigid inclusions -  
Keller UK***

***Rigid inclusions are  
often used to support an  
embankment or building***

Read PDF Rigid Inclusions For  
Support Of Embankments And  
Mse Walls

*over compressible soils,  
ultimately supported by  
a hard layer. What are  
Rigid Inclusions? Rigid  
inclusions consist of  
cement-treated  
aggregate, grouted*

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***aggregate, grout mixed  
with soil, or concreted  
columns that are used to  
transfer the stress from  
the foundation or  
embankment loads through  
very soft soils down to***

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***stiffer soil or rock  
layers.***

***Rigid inclusions are  
Frequently Used for Soil  
Stabilization***

***Rigid inclusions are***

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***unreinforced, grouted or concrete columns installed in very soft soils to meet settlement criteria and improve bearing capacity for support of shallow***

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***foundations of a structure. They are considered ground improvement because they are not structurally connected to the building they support.***

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***Rigid inclusions vs. aggregate piers | Subsurface Constructors Rigid inclusions may be used to support a landfill or embankment***



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*over compressible soils supported ultimately by a hard layer. To accomplish rigid inclusions, a mandrel or hollow augur is used to penetrate the ground and*

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***displace weak soils  
laterally at the moment  
of drilling.***

***Earth Tech Rigid  
Inclusions | Earth Tech  
Structural Performance –***

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***The structural design capacity of a rigid inclusion is controlled by the unconfined compressive strength for the unreinforced Cement Treated Aggregate (CTA),***

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***grouted aggregate or  
concrete rigid inclusion  
being subjected to  
compressive loads. The  
design capacity of a  
rigid inclusion can be  
calculated using either***

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***a Load and Resistance  
Factor Design (LRFD) or  
an Allowable Stress  
Design (ASD) approach  
depending on the type of  
structure to be  
supported and the type***

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Mse Walls  
*of ...*

***Geopier Rigid Inclusions  
- GeoStructures  
The rigid inclusions GCC  
elements support the  
structure on traditional***

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Mse Walls

***spread footings which  
extend through the fill,  
organics, and very loose  
soil to achieve superior  
load transfer through  
shaft friction and  
ending bearing***

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*resistance in the medium  
dense native sands.*

***SUPPORT OF HIGH RISE  
BUILDING ON ORGANIC AND  
ALLUVIAL ...***

***Rigid Inclusions (RIs)***



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Mse Walls

***are high***

***modulus/controlled***

***stiffness grout columns***

***typically installed***

***through weak, highly***

***compressible soils to***

***reduce settlement and***

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***increase bearing  
capacity. Common uses  
Increase bearing  
capacity***

***Rigid inclusions |  
Keller North America***

*Page 34/111*

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***CMC rigid inclusions are a ground improvement solution comprised of grouted inclusions which act to reinforce a soil mass for the purpose of settlement control and***

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Mse Walls

***increased bearing  
capacity. While...***

***COMPARISON OF CMC RIGID  
INCLUSIONS AND DEEP  
FOUNDATIONS***

***Rigid inclusions (RIs)***

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Mse Walls

***are typically at least 4  
times stiffer than  
aggregate piers. RIs  
help efficiently  
transfer much of the  
load through soft soil  
layers into denser***

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Support Of Embankments And  
Mse Walls

***stratum due to their  
high stiffness. RIs are  
not susceptible to  
lateral bulging in peat  
or organic strata.***

***Rigid Inclusion Ground***

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Support Of Embankments And  
Mse Walls

***Improvement Solutions -  
Helical ...***

***Typical examples are the  
sintering of composites  
with rigid inclusions,  
sintering of thin films  
on a substrate and co-***

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Support Of Embankments And  
Mse Walls

***sintering of different  
laminates. In thin film  
sintering on a rigid  
substrate a lateral  
constraint is imposed  
and only shrinkage  
perpendicular to the***



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***film is allowed.***

***Rigid Inclusion - an overview | ScienceDirect Topics***

***CMC rigid inclusions can be used in virtually all***

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Mse Walls

***soil types, including  
gravel, sand, clay,  
silt, peat, and various  
fills. CMC rigid  
inclusions are most  
commonly used to  
reinforce very soft***

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***cohesive soils, where the use of aggregate-based columns is not appropriate.***

**CMC RIGID INCLUSIONS  
(CMC)<sup>TM</sup> RIGID AGGREGATE**

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**PIERS WITE 01**

***Rigid inclusions are considered ground improvement because they are not structurally connected to what they are supporting, such as***

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***building footings. Rigid inclusion is a broad term used to encapsulate the different displacement installation methods for these grouted columns.***

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***Rigid Inclusions / Vibro Concrete Columns | Subsurface ...***

***A load transfer platform (LTP) is used to transfer load from the***

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Mse Walls

***structure to the Rigid  
Inclusions Structural  
Fill – Granular soil  
(VDOT 21B) LTPs may  
include 1 to 3 layers of  
embedded geogrid or  
steel mesh***

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## ***Rigid Inclusion Design & Construction***

***Support of heavily loaded foundations using CMC rigid inclusions consists of a footing***



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Mse Walls

***situated atop a load transfer platform (LTP) bearing on a customized configuration of CMC rigid inclusions. The load from the shallow foundation is***

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*transferred to the CMC  
rigid inclusions through  
the LTP.*

**CONTROLLED MODULUS  
COLUMN (CMC)<sup>TM</sup> RIGID  
INCLUSIONS FOR . . .**

*Page 50/111*

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***Ground improvement is achieved by constructing a regular grid of vertical elements, or inclusions (either stone columns or rigid inclusions),***

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***across soil layers with  
low bearing capacity  
and/or...***

***(PDF) General report S5  
Rigid Inclusions and  
Stone Columns***

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***CMC Rigid Inclusions are  
a cost-effective  
approach to support  
lightly to heavily  
loaded foundations and  
serve as an alternative  
to traditional piling***

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Support Of Embankments And

Mse Walls

*systems in soft/loose  
soils where  
settlement...*

**CMC RIGID INCLUSIONS FOR  
HEAVILY LOADED SHALLOW  
FOUNDATIONS**

*Page 54/111*

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***A minimum diameter  
requirement must be  
established, which can  
be as high as 25 cm in  
the ASIRI  
recommendations for  
inclusions other than***

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*micro-piles but as low  
as 12 to 15 cm in the  
German...*

***Rigid Inclusions***

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Mse Walls

**Animation Rigid  
Inclusions Animation |  
Keller**

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***10.23.12 Analysis of  
Rigid Inclusions***

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***Installation steel cage  
inside rigid inclusion***

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***column (CMC, KGM)***

---

***CMC ( Controlled Modulus  
Columns ) Rigid  
Inclusions Animation  
Geopier® Ground  
Improvement Solutions  
Using Rigid Inclusion***

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Support Of Embankments And  
Mse Walls

**Technology CMC Rigid  
Inclusions for the IADOT  
- Council Bluffs, IA  
Menard Group USA - MNDOT  
9 mile Creek - CMC Rigid  
Inclusions Reimagining  
Disability \u0026**

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Mse Walls

**Inclusive Education |**

**Jan Wilson |**

**TEDxUniversityofTulsa**

**MetroPoint , New Jersey**

**- CMC Rigid Inclusions,**

**Dynamic Compaction and**

**Rapid Impact Compaction**

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~~**What are Controlled  
Modulus Columns? 360  
Virtual Reality - CMC  
Rigid Inclusion Test  
Installation Inclusive  
Education - Education  
Equity Now Allyship: How**~~

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***Being An Ally Can Help  
You Create An Inclusive  
Workplace » Karen Catlin  
installation Ground  
Anchor WITOW GROUND  
IMPROVEMENT Salesforce  
shares steps for***

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***building a diverse and  
inclusive workplace  
Teaching Children with  
Autism***

---

***What are stone columns ?  
Teaching in the  
Inclusive Classroom -***

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**Instructional Strategies**  
**for All Students - 3**

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***Rigid Inclusions and RIC  
Rapid Impaction***

***Compaction RIC - 360 VR  
Virtual Reality***

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***Column Grout Modulus  
(KGM) or Rigid Inclusion  
CMC for Bridge Approach***

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## ***Embankment***

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***Weaving a Big Coat (with  
Self-Striping Yarns and  
Saori Sewing) ~~CMC rigid  
inclusions in BALTIMORE~~  
GeoSpring 1.0 \_ Pre-  
Design Rigid Inclusions***

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Mse Walls

***Rigid inclusions Omega  
by Franki Foundations  
Pacific Highway Upgrade  
- Menard CMC Rigid  
Inclusions Installation  
- Pimlico to Teven  
GROUND INCLUSIONS Rigid***

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## ***Inclusions For Support Of***

***Typically used for.***

***Rigid inclusions is a ground improvement method using high deformation modulus***

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***columns constructed through compressible soils to reduce settlement and increase bearing capacity. Ground improvement efficiency depends on the stiffness***

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***relationship between the  
soil and the columns.***

***Rigid inclusions |  
Keller UK***

***Rigid inclusions are a  
ground improvement***

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***method using high  
deformation modulus  
columns constructed  
through compressible  
soils to reduce  
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***allows the use of shallow foundations to support structures on compressible soils. Soil reinforcement with rigid inclusions reduces settlements very***



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***efficiently (with***

***Rigid inclusions -  
Keller UK***

***Rigid inclusions are  
often used to support an  
embankment or building***

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*over compressible soils, ultimately supported by a hard layer. What are Rigid Inclusions? Rigid inclusions consist of cement-treated aggregate, grouted*

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Mse Walls

***aggregate, grout mixed  
with soil, or concreted  
columns that are used to  
transfer the stress from  
the foundation or  
embankment loads through  
very soft soils down to***

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***stiffer soil or rock  
layers.***

***Rigid inclusions are  
Frequently Used for Soil  
Stabilization***

***Rigid inclusions are***

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***unreinforced, grouted or concrete columns installed in very soft soils to meet settlement criteria and improve bearing capacity for support of shallow***

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***foundations of a structure. They are considered ground improvement because they are not structurally connected to the building they support.***

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***Rigid inclusions vs. aggregate piers | Subsurface Constructors Rigid inclusions may be used to support a landfill or embankment***

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*over compressible soils supported ultimately by a hard layer. To accomplish rigid inclusions, a mandrel or hollow augur is used to penetrate the ground and*



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Mse Walls

***displace weak soils  
laterally at the moment  
of drilling.***

***Earth Tech Rigid  
Inclusions | Earth Tech  
Structural Performance –***

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***The structural design capacity of a rigid inclusion is controlled by the unconfined compressive strength for the unreinforced Cement Treated Aggregate (CTA),***

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***grouted aggregate or  
concrete rigid inclusion  
being subjected to  
compressive loads. The  
design capacity of a  
rigid inclusion can be  
calculated using either***

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***a Load and Resistance  
Factor Design (LRFD) or  
an Allowable Stress  
Design (ASD) approach  
depending on the type of  
structure to be  
supported and the type***

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***of ...***

***Geopier Rigid Inclusions  
- GeoStructures  
The rigid inclusions GCC  
elements support the  
structure on traditional***

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***spread footings which  
extend through the fill,  
organics, and very loose  
soil to achieve superior  
load transfer through  
shaft friction and  
ending bearing***

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***resistance in the medium  
dense native sands.***

***SUPPORT OF HIGH RISE  
BUILDING ON ORGANIC AND  
ALLUVIAL ...***

***Rigid Inclusions (RIs)***

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Mse Walls

***are high***

***modulus/controlled***

***stiffness grout columns***

***typically installed***

***through weak, highly***

***compressible soils to***

***reduce settlement and***



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***increase bearing  
capacity. Common uses  
Increase bearing  
capacity***

***Rigid inclusions |  
Keller North America***

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***CMC rigid inclusions are a ground improvement solution comprised of grouted inclusions which act to reinforce a soil mass for the purpose of settlement control and***

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***increased bearing  
capacity. While...***

***COMPARISON OF CMC RIGID  
INCLUSIONS AND DEEP  
FOUNDATIONS***

***Rigid inclusions (RIs)***

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Mse Walls

***are typically at least 4  
times stiffer than  
aggregate piers. RIs  
help efficiently  
transfer much of the  
load through soft soil  
layers into denser***

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***stratum due to their  
high stiffness. RIs are  
not susceptible to  
lateral bulging in peat  
or organic strata.***

***Rigid Inclusion Ground***

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***Improvement Solutions -  
Helical ...***

***Typical examples are the  
sintering of composites  
with rigid inclusions,  
sintering of thin films  
on a substrate and co-***

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***sintering of different  
laminates. In thin film  
sintering on a rigid  
substrate a lateral  
constraint is imposed  
and only shrinkage  
perpendicular to the***

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***film is allowed.***

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***CMC rigid inclusions can  
be used in virtually all***



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***soil types, including  
gravel, sand, clay,  
silt, peat, and various  
fills. CMC rigid  
inclusions are most  
commonly used to  
reinforce very soft***

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***cohesive soils, where  
the use of aggregate-  
based columns is not  
appropriate.***

**CMC RIGID INCLUSIONS  
(CMC)<sup>TM</sup> RIGID AGGREGATE**

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**PIERS WITE 01**

***Rigid inclusions are considered ground improvement because they are not structurally connected to what they are supporting, such as***

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***building footings. Rigid inclusion is a broad term used to encapsulate the different displacement installation methods for these grouted columns.***

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***Rigid Inclusions / Vibro Concrete Columns | Subsurface ...***

***A load transfer platform (LTP) is used to transfer load from the***

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***structure to the Rigid  
Inclusions Structural  
Fill – Granular soil  
(VDOT 21B) LTPs may  
include 1 to 3 layers of  
embedded geogrid or  
steel mesh***

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## ***Rigid Inclusion Design & Construction***

***Support of heavily loaded foundations using CMC rigid inclusions consists of a footing***

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***situated atop a load transfer platform (LTP) bearing on a customized configuration of CMC rigid inclusions. The load from the shallow foundation is***



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*transferred to the CMC  
rigid inclusions through  
the LTP.*

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COLUMN (CMC)<sup>™</sup> RIGID  
INCLUSIONS FOR . . .**

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***Ground improvement is achieved by constructing a regular grid of vertical elements, or inclusions (either stone columns or rigid inclusions),***

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***across soil layers with  
low bearing capacity  
and/or...***

***(PDF) General report S5  
Rigid Inclusions and  
Stone Columns***

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***CMC Rigid Inclusions are  
a cost-effective  
approach to support  
lightly to heavily  
loaded foundations and  
serve as an alternative  
to traditional piling***

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Mse Walls

*systems in soft/loose  
soils where  
settlement...*

**CMC RIGID INCLUSIONS FOR  
HEAVILY LOADED SHALLOW  
FOUNDATIONS**

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***A minimum diameter  
requirement must be  
established, which can  
be as high as 25 cm in  
the ASIRI  
recommendations for  
inclusions other than***

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Support Of Embankments And  
Mse Walls

***micro-piles but as low  
as 12 to 15 cm in the  
German...***