Геосинтетические продукты

Определение

Общий термин, описывающий продукт, по крайней мере один из компонентов которой выполнен из синтетического или природного полимера, в виде листа, полос или трехмерной структуры, используемая в контакте с почвой и / или других материалов в геотехнической и инженерной среде.

Геосинтетические продукты

ГЕОСИНТЕТИЧЕСКИЕ ПРОДУКТЫ

КАТЕГОРИИ

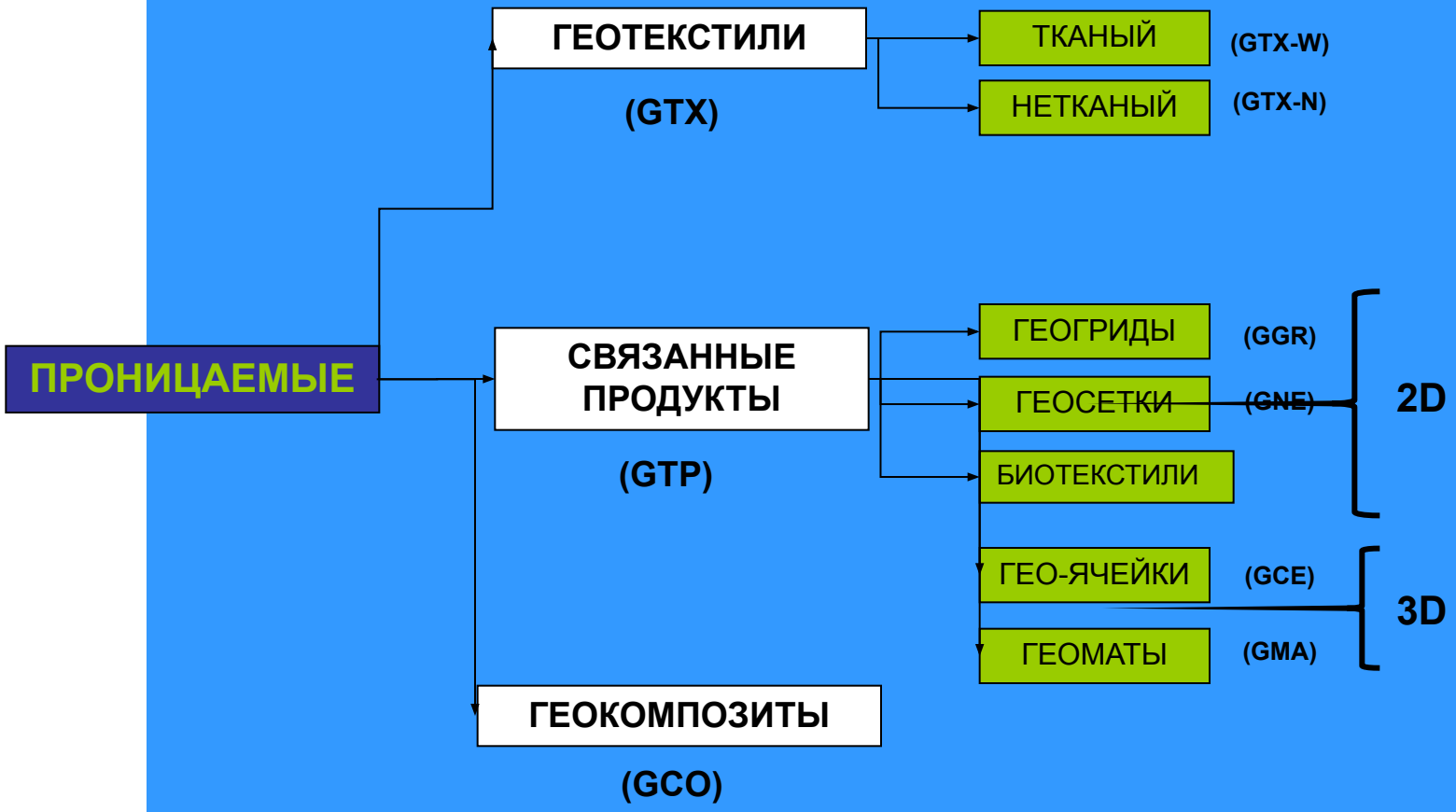
ГЕОСИНТЕТИКИ

- **ПРОНИЦАЕМЫЕ**
- **ГИДРОИЗОЛИРУЮЩИЕ**

Tratto da - **prEN ISO 10318:2000**

Геосинтетические продукты

КАТЕГОРИИ



Tratto da - **prEN ISO 10318:2000**

ГЕОСИНТЕТИЧЕСКИЕ ПРОДУКТЫ

КАТЕГОРИИ ▶

ГИДРОИЗОЛЯЦИОННЫЕ

- **Глиняная Геосинтетика** **(GCL)**
- **Геомембрана** **(GMB)**

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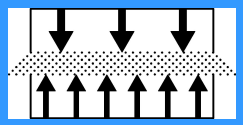
ГЕОСИНТЕТИЧЕСКИЕ ПРОДУКТЫ

ФУНКЦИИ ▶

РАЗДЕЛЕНИЕ



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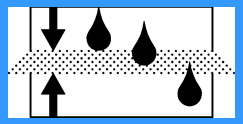

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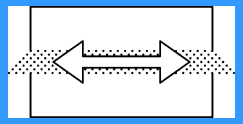

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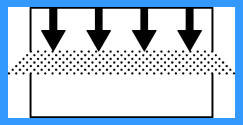

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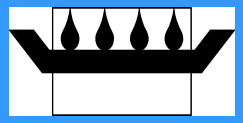

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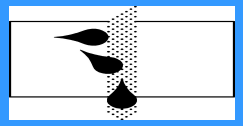
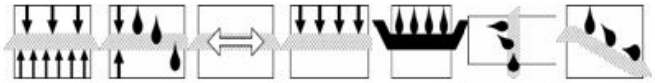


КОНТРОЛЬ ЭРОЗИИ

TeMa Technologies and Materials

GEOSYNTHETICS PRODUCTS

ПРОДУКТЫ Vs ФУНКЦИИ



		SEPARATION	FILTRATION	REINFORCEMENT	PROTECTION	WATERPROOFING	DRAINAGE	EROSION CONTROL
GT (W)	WOVEN GEOTEXTILE	✓	✓	✓				
GT (NW)	NO WOVEN GEOTEXTILE	✓	✓		✓			
GG	GEOGRID			✓				
BT	BIOTEXTILE AND BIOMAT							✓
GA	GEOMAT							✓
GL	GEOCELL							✓
GN	GEONET				✓			
GCD	GEOSYNTHETIC FOR DRAINAGE						✓	
GCL	GEOSINTHETIC CLAY LINER					✓		
GM	GEOMEMBRANE					✓		
GMS	SYNTHETIC GEOMEMBRANE					✓		
GMB	BITUMINOUS GEOMEMBRANE					✓		

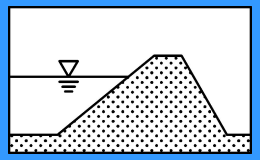
TeMa Technologies and Materials

TeMa
environmental division

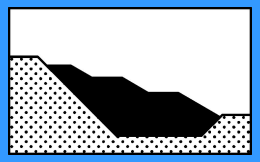
GEOSYNTHETICS PRODUCTS

Обозначение

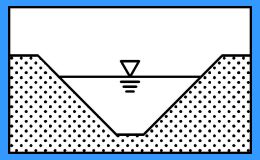
Резервуары и дамбы



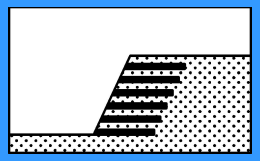
Мусорные Полигоны



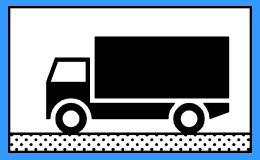
Каналы



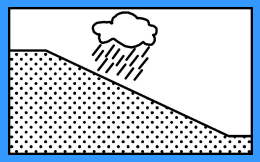
Укрепление почвы



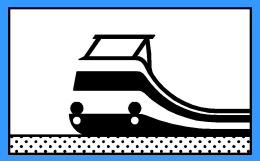
Дороги



Контроль над эрозией



ЖД пути



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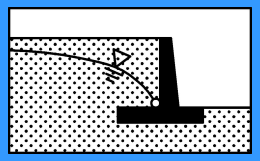

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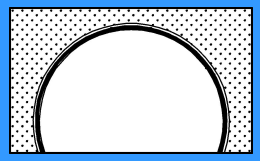


TeMa Technologies and Materials

Геотекстиль нетканый

Определение ▶ Нетканые геотекстиль производится из штапельных волокон (штапель волокна как правило, от 1 до 4 дюймов в длину), или из цельных нитей беспорядочно распределенных в слоях на движущимся станке формируя сетку. Затем сетка проходит через ткацкий станок и переплетает волокна.

Сырье ▶ Полипропилен (PP), Полиэстер (PET)

Крепление ▶ **Два наиболее распространенных метода Иглопробивной и Термосоедененый.**

TeMa
environmental division

GEOTEXTILE NONWOVEN (GTX – NW)

Образы ▶

◀ Иглопробива

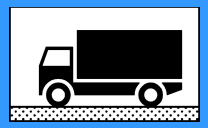
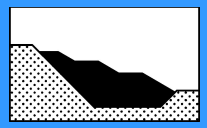
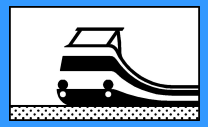
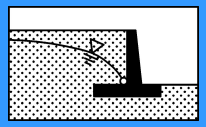
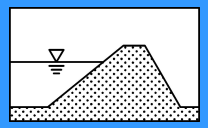
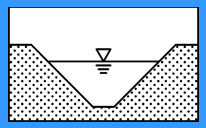
Термосоиденение ▼

TeMa Technologies and Materials

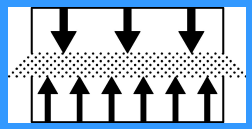
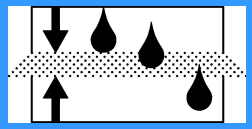
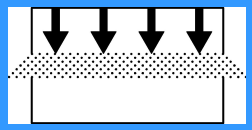
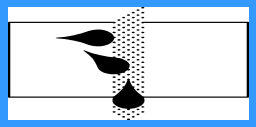
TeMa
environmental division

НЕТКАНЫЙ ГЕОТЕКСТИЛЬ (GTX – NW)

Области применения

ДОРОГИ		ПОЛИГОНЫ	
ЖД ПУТИ		ДРЕНАЖ	
РЕЗЕРВУАРЫ		КАНАЛЫ	

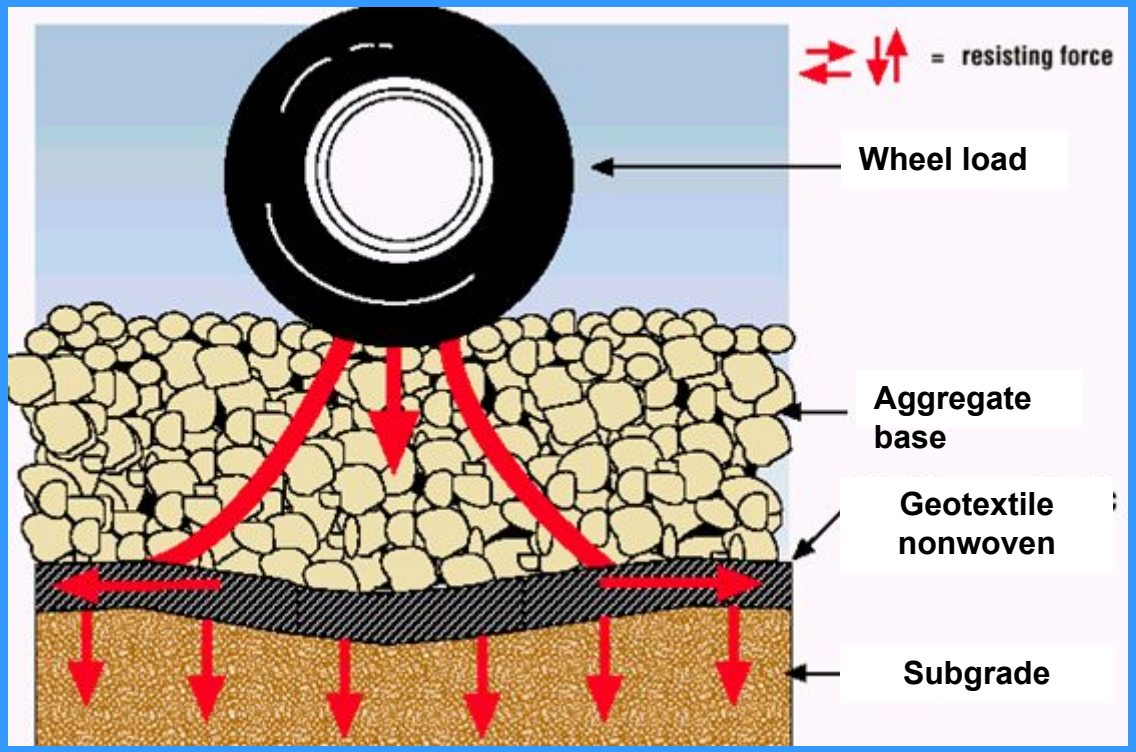
Основная функция

РАЗДЕЛЕНИЕ	
ФИЛЬТРАЦИЯ	
ЗАЩИТА	
ДРЕНАЖ	

TeMa Technologies and Materials

НЕТКАНЫЙ ГЕОТЕКСТИЛЬ (GTX – NW)

Области применения



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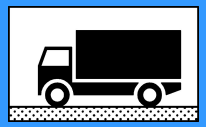


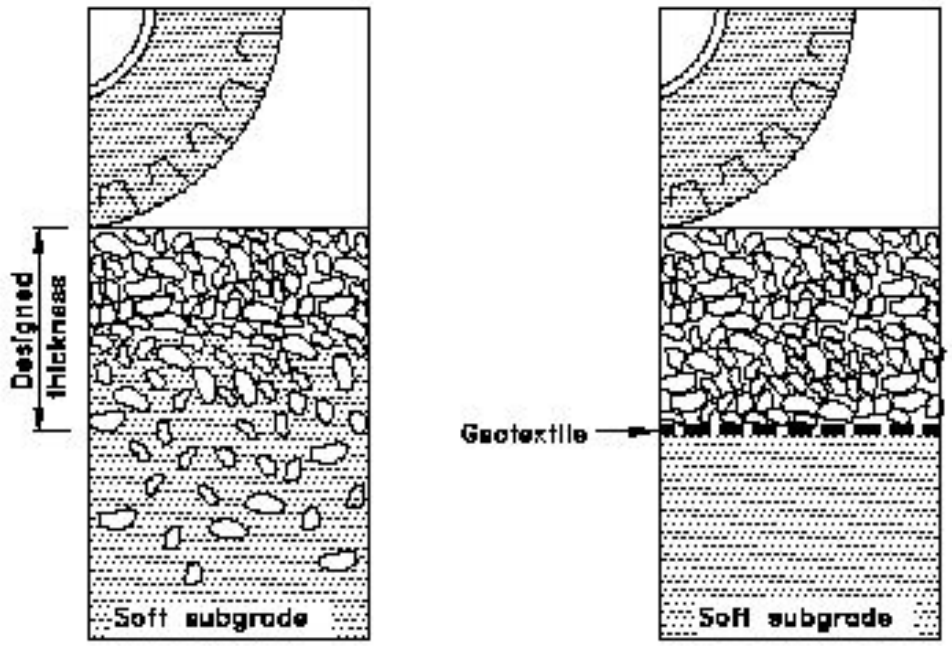


Figure A-1. Concept of geotextile separation in roadways (after Rankilor, 1981).

НЕТКАНЫЙ ГЕОТЕКСТИЛЬ (GTX – NW)

Области применения

НЕТКАНЫЙ ГЕОТЕКСТИЛЬ (GTX – NW)

Области применения

НЕПРАВИЛЬНО

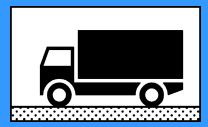
ПРАВИЛЬНО

НЕТКАНЫЙ ГЕОТЕКСТИЛЬ (GTX – NW)

Области применения

НЕТКАНЫЙ ГЕОТЕКСТИЛЬ (GTX – NW)

Области применения



НЕТКАНЫЙ ГЕОТЕКСТИЛЬ (GTX – NW)

Области применения

НЕТКАНЫЙ ГЕОТЕКСТИЛЬ (GTX – NW)

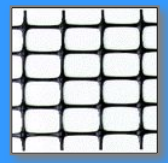
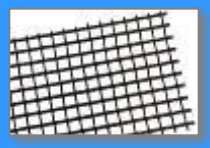
Области применения

ГЕОГРИДЫ (GGR)

Обозначение ▶ Плоская, полимерная структура, состоящая из открытой сетки интегрально связанных и растяжимых элементов, сделанные путем экструдирования или склеивания.

Сырье ▶ Полиэтилен (PE), Полиэстер (PET), Полипропилен (PP), Стекловолокно (FBG)

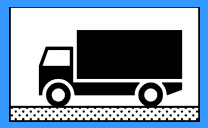
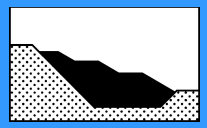
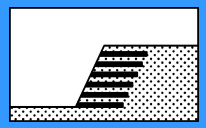
Виды ▶

Экструдированый	МОНОСЕТКА	
	БИОСЕТКА	
ТКАННЫЙ		
ПЛОСКАЯ СЕТКА		

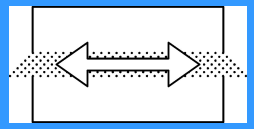
TeMa Technologies and Materials

ГЕОГРИДЫ (GGR)

Области применения

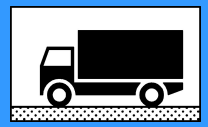
ДОРОГИ 	ПОЛИГОНЫ 
УКРЕПЛЕНИЕ СКЛОНОВ 	

Основная функция

УКРЕПЛЕНИЕ 	

ГЕОГРИДЫ (GGR)

Области применения

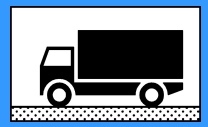


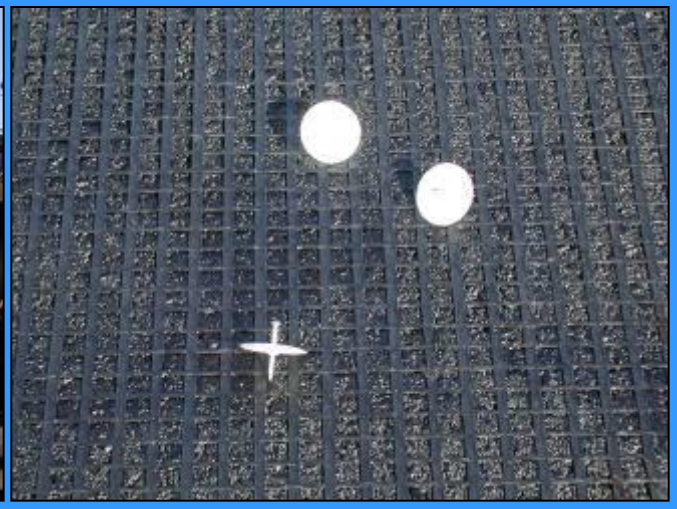
ГЕОГРИДЫ (GGR)

Области применения

ГЕОГРИДЫ (GGR)

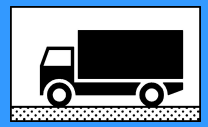
Области применения





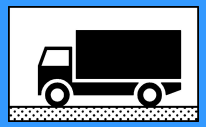
ГЕОГРИДЫ (GGR)

Области применения



ГЕОГРИДЫ (GGR)

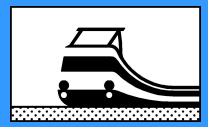
Области применения



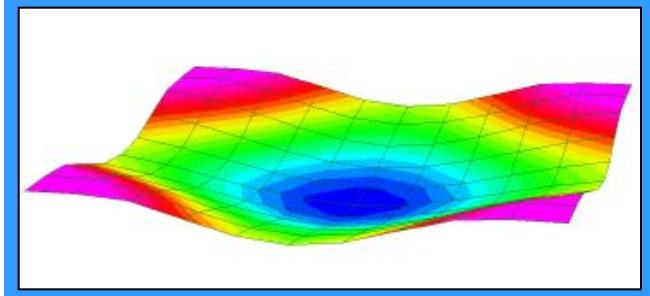
Укрепление земли

ГЕОГРИДЫ (GGR)

Области применения

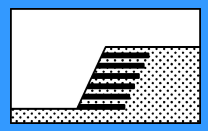


Сваи для набережной

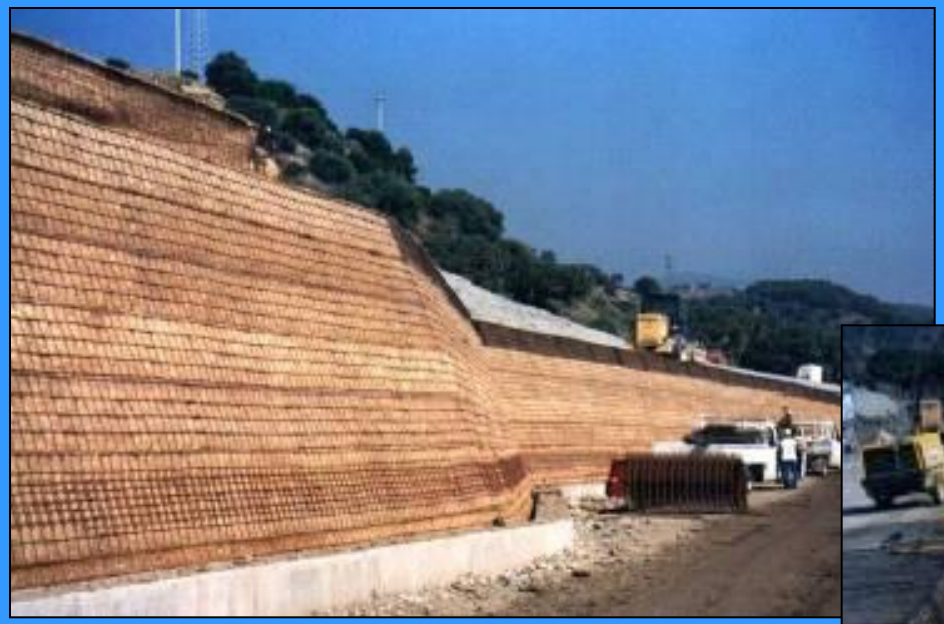


ГЕОГРИДЫ (GGR)

Application fields ▶



Укрепление склона



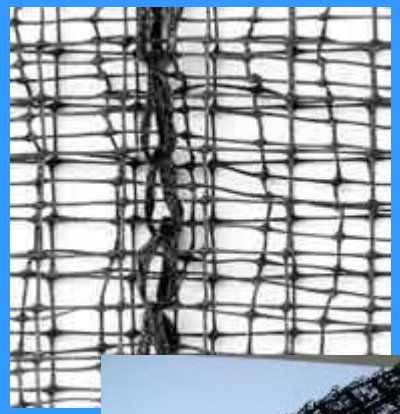
TeMa
environmental division

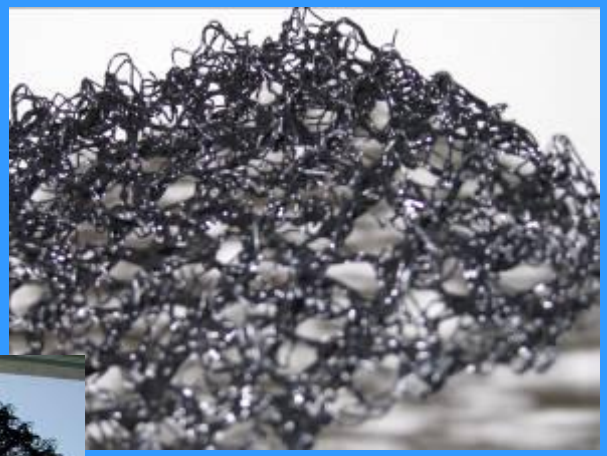
ГЕОМАТ (GMA)

Definition ▶ Трехмерная структура, изготовленная из полимерных моноволокн, или синтетических элементов скрепленные механическим, химическим, или иным способом для сдерживания почвы, корней и небольших растений в геотехнических решениях.

Raw material ▶ Полиэтилен (PE),Полипропилен (PP),Полиамид (PA)

Type ▶





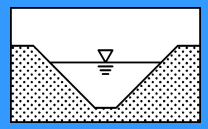
TeMa Technologies and Materials

ГЕОМАТ (GMA)

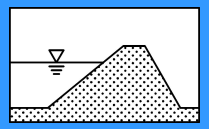
Application fields

СКЛОН

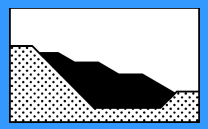
КАНАЛ



РЕЗЕРВУАР



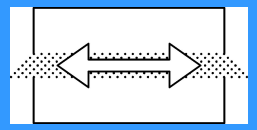
ПОЛИГОН



Main function

КНОТРОЛЬ НАД ЭРОЗИЕЙ

УКРЕПЛЕНИЕ



ГЕОМАТ (GMA)

Application fields

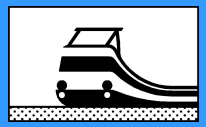
ГЕОМАТ (GMA)

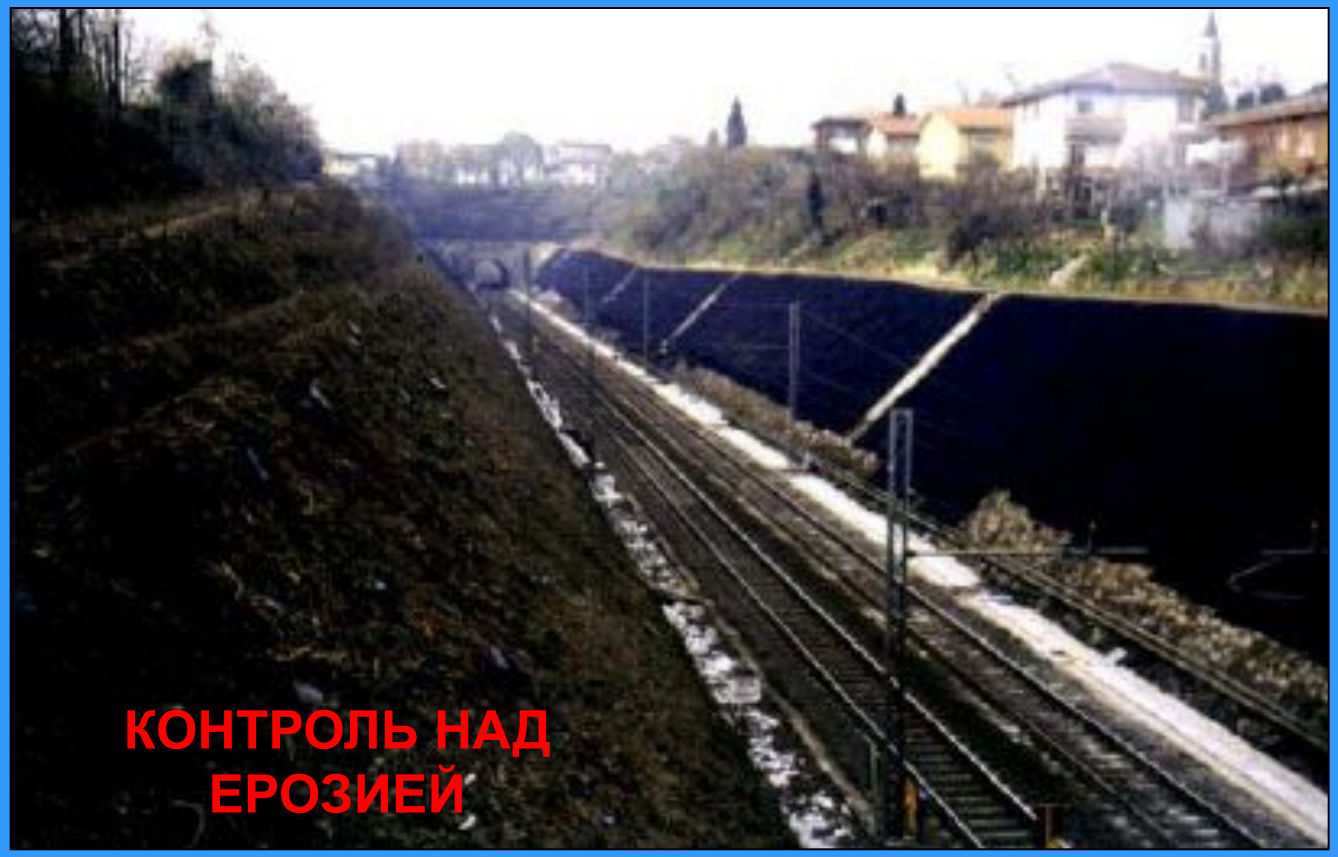
Application fields ▶

УКРЕПЛЕНИЕ дорожного склона

ГЕОМАТ (GMA)

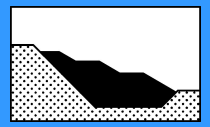
Application fields ▶





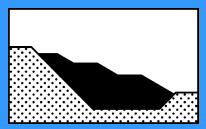
ГЕОМАТ (GMA)

Application fields

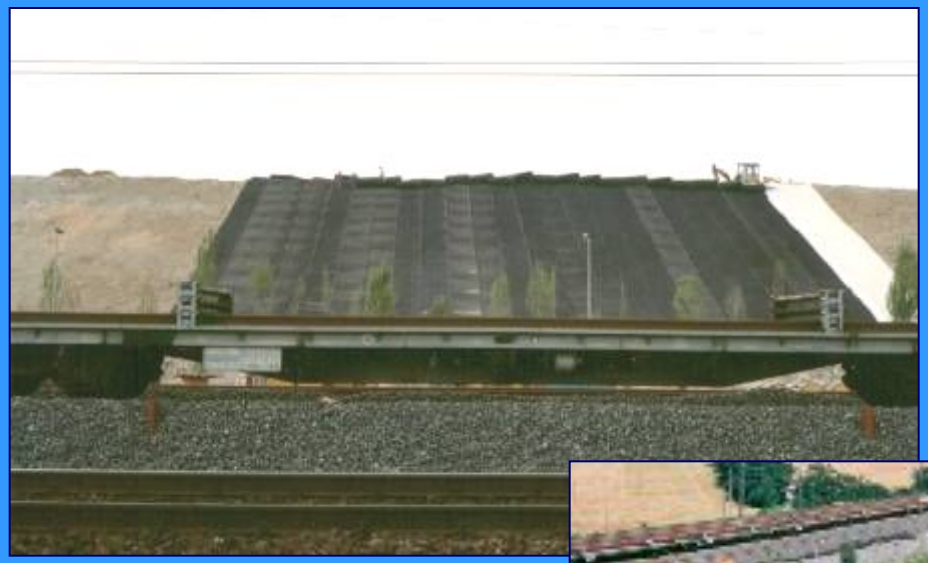


ГЕОМАТ (GMA)

Application fields

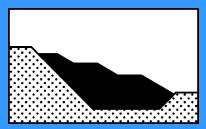


ШАПКА



ГЕОМАТ (GMA)

Application fields



ШАПКА

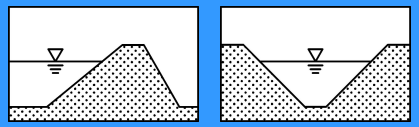
ГЕОМАТ (GMA)

Application fields

ШАПКА

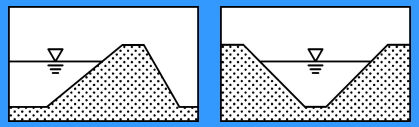
ГЕОМАТ (GMA)

Application fields



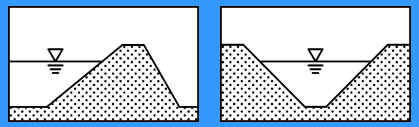
ГЕОМАТ (GMA)

Application fields



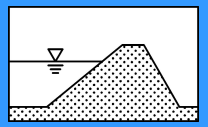
ΓΕΟΜΑΤ (GMA)

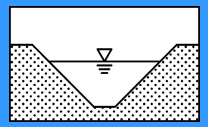
Application fields



ГЕОМАТ (GMA)

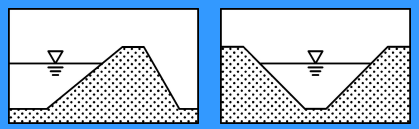
Application fields





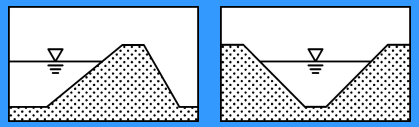
ГЕОМАТ (GMA)

Application fields



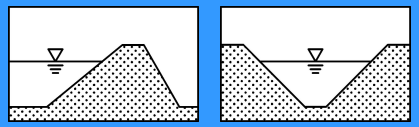
ГЕОМАТ (GMA)

Application fields



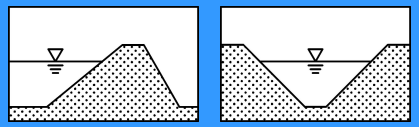
ГЕОМАТ (GMA)

Application fields



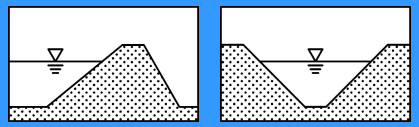
ГЕОМАТ (GMA)

Application fields



ГЕОМАТ (GMA)

Application fields



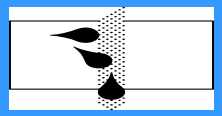
ГЕОКОМПОЗИТ (GCO)

Definition ▶ Когда геосинтетик используется с другими гео компонентами

СЫРЬЕ ▶ Полиэтилен (PE),Полипропилен (PP),Полиамид (PA)

ФУНКЦИИ ▶

ДРЕНАЖ

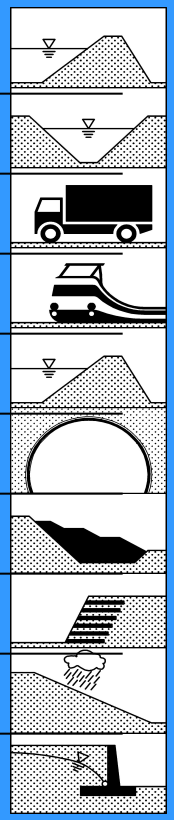


TeMa
environmental division

ГЕОКОМПОЗИТ (GCO)

Application fields

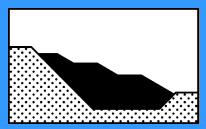
COMBINATION OF GEOSYNTHETICS	СЫРЬЕ		APPLICATION FILEDS
GTX-N / GMA	GTX-N	PET/PP	ДАМБА
	GMA	PP	КАНАЛЫ
GTX-N / GNE	GNE	PE	ДОРОГА
GTX-N / GMA / GTX-N	GTX-N	PET/PP	ЖД
GTX-N / GNE / GTX-N	GMA	PP/PA	РЕЗЕРВУАР
GMB / GMA / GTX-N	GNE	PE	ТУНЕЛЬ
GMB / GNE / GTX-N	GMB	HDPE	ПОЛИГОН
GTX-N / PS	GTX-N	PET/PP	УКРЕПЛЕНИЕ СКЛОНА
	PS	PP	ЭРОЗИЯ
			ДРЕНАЖНАЯ СИСТЕМА



TeMa Technologies and Materials

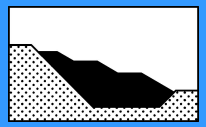
ГЕОКОМПОЗИТЫ (GCO)

Application fields



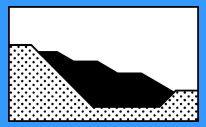
ГЕОКОМПОЗИТЫ (GCO)

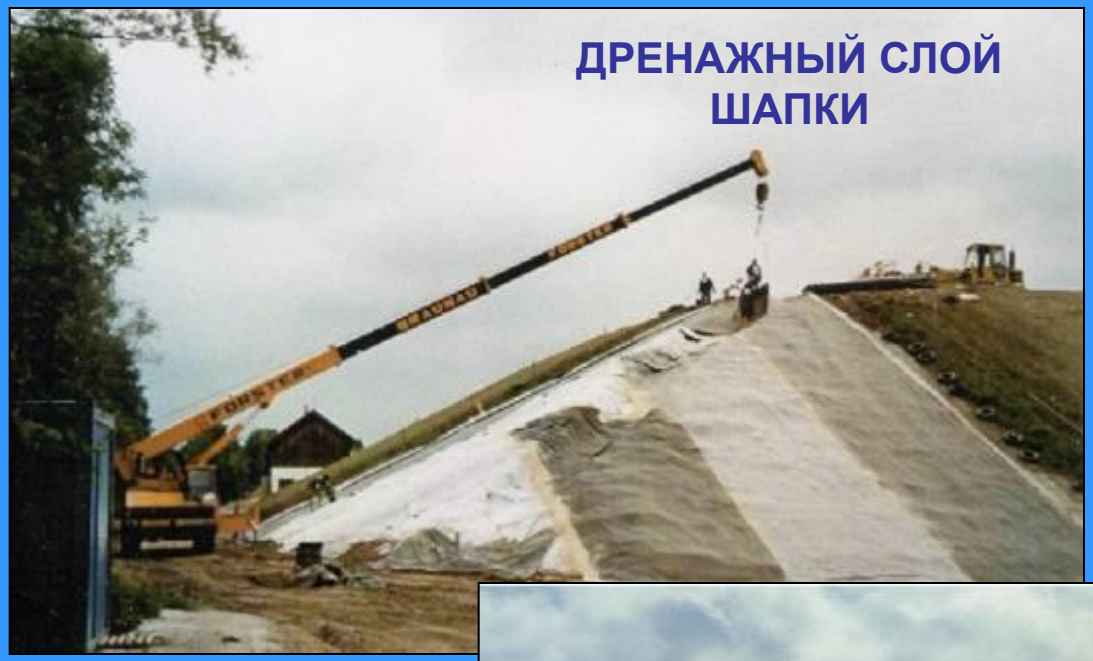
Application fields



ГЕОКОМПОЗИТЫ (GCO)

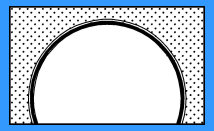
Application fields





ГЕОКОМПОЗИТЫ (GCO)

Application fields



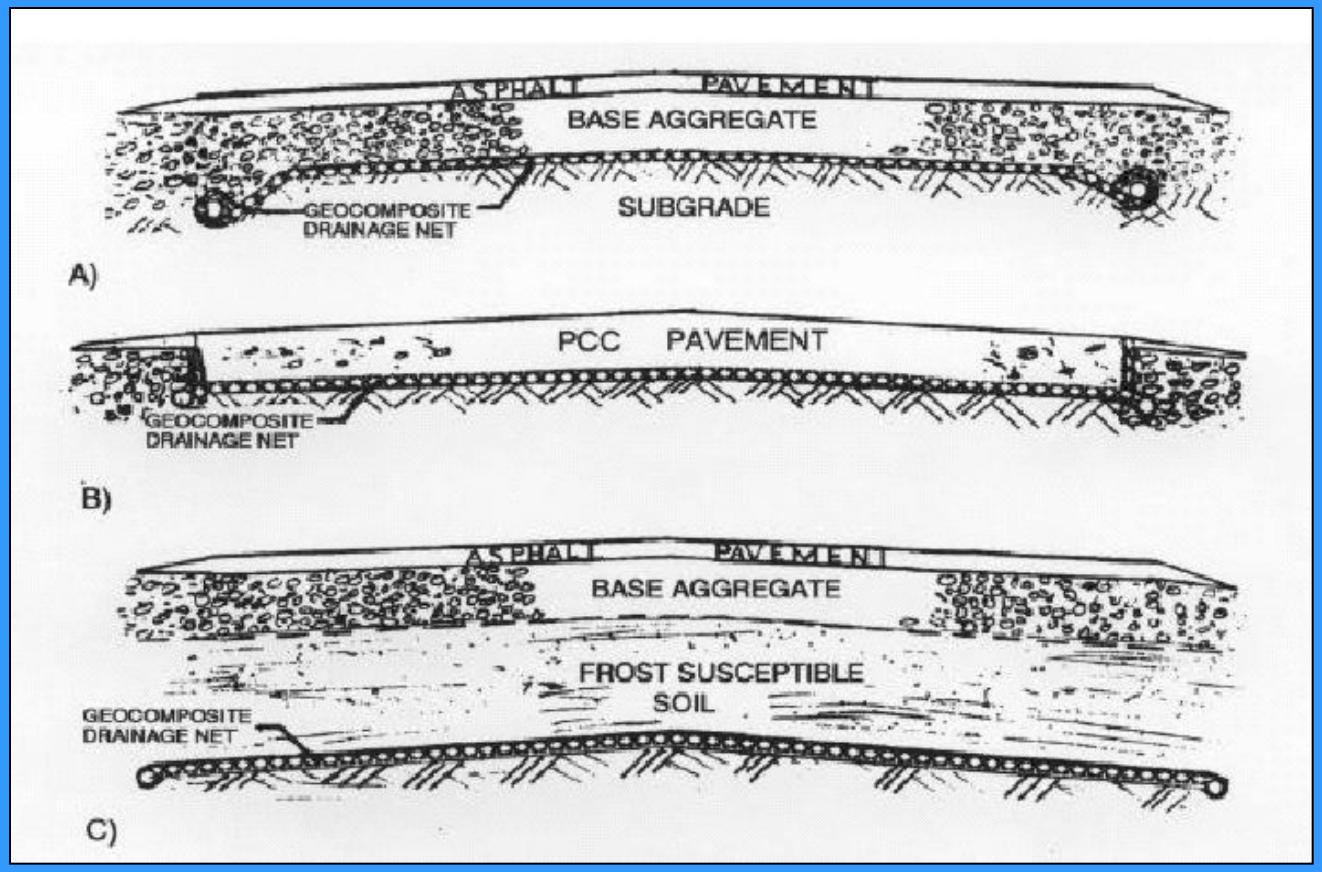
ДРЕНАЖНЫЙ СЛОЙ ДНА ИСКУСТВЕНОГО КАНАЛА

ГЕОКОМПОЗИТЫ (GCO)

Application fields

ГЕОКОМПОЗИТЫ (GCO)

Application fields



ГЕОКОМПОЗИТЫ (GCO)

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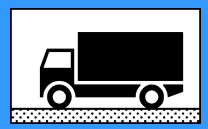
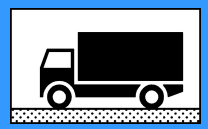


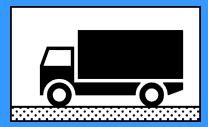
ГЕОКОМПОЗИТЫ (GCO)

Application fields ▶



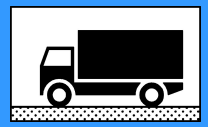
ГЕОКОМПОЗИТЫ (GCO)

Application fields ▶



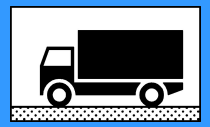
ГЕОКОМПОЗИТЫ (GCO)

Application fields

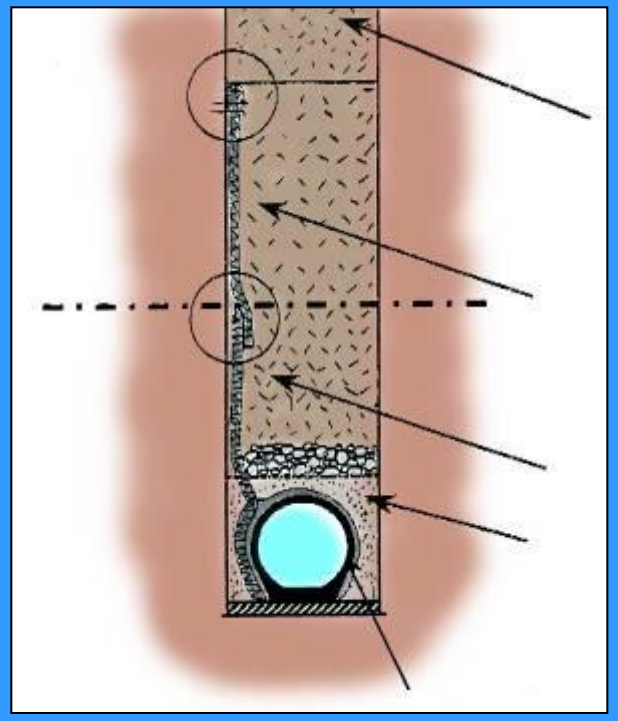


ГЕОКОМПОЗИТЫ (GCO)

Application fields ▶



ТРАНШЕЙНАЯ СИСТЕМА ДРЕНАЖА



ГЕОКОМПОЗИТЫ (GCO)

Application fields

ГЕОКОМПОЗИТЫ (GCO)

Application fields

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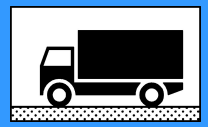
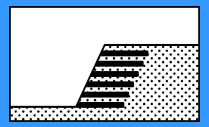


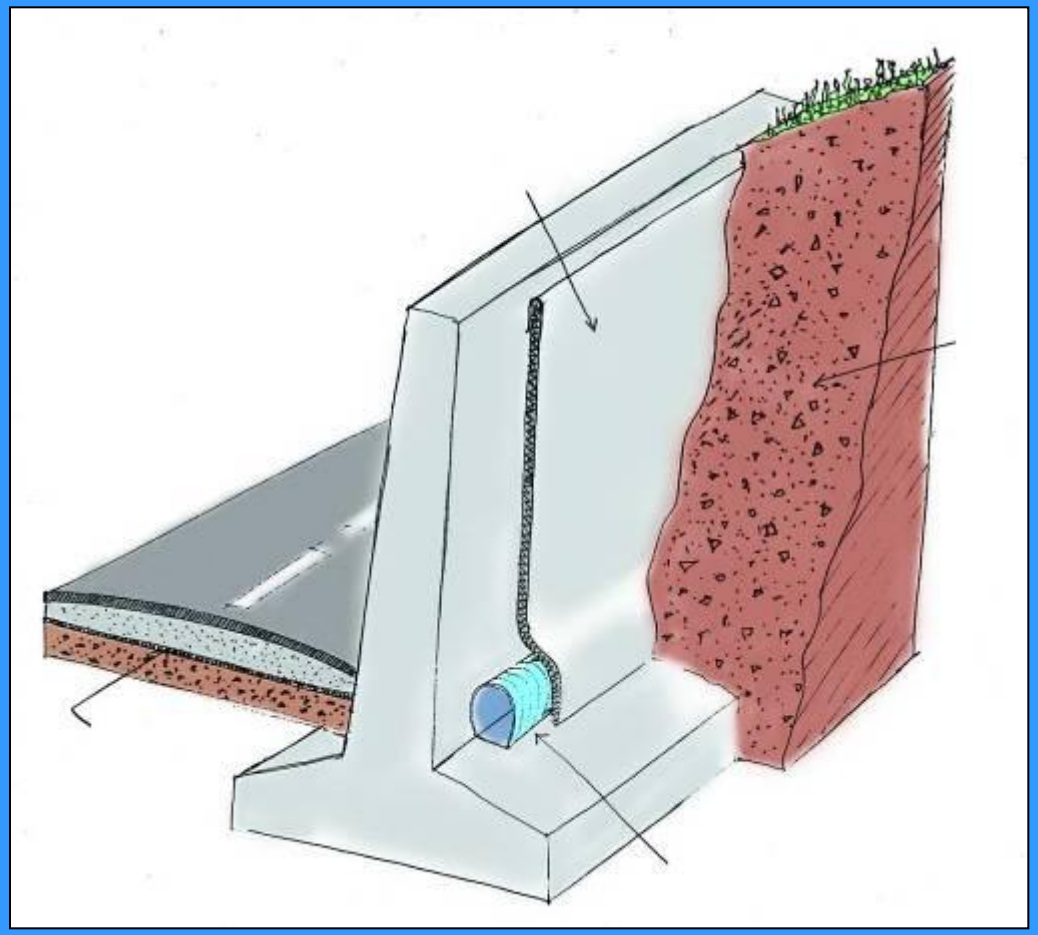
ГЕОКОМПОЗИТЫ (GCO)

Application fields

ГЕОКОМПОЗИТЫ (GCO)

Application fields





ГЕОКОМПОЗИТЫ (GCO)

Application fields

GEOSYNTHETICS PRODUCTS

TO INDEX