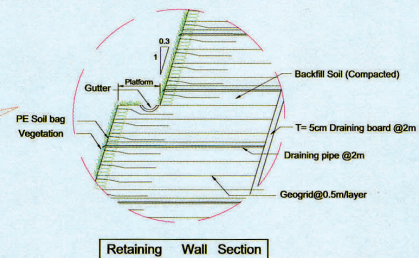
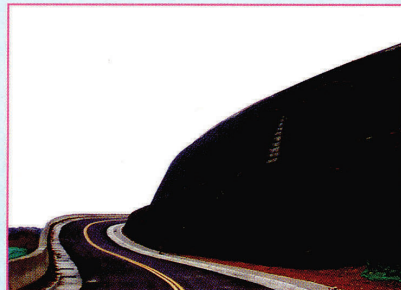


ACE Geogrids are woven by high-strength polyester yarns. The mesh size and structure vary with specification. The surfaces are coated with UV resistant PVC or coating with resin or non-toxic coverage material in order to prevent biodecomposition and attack by acids and alkalis.

Comparison Conventional RC Walls vs. Reinforced Retaining Walls

Item	Conventional RC Wall	Reinforced Retaining Wall
Cost	Higher; cost accelerates as wall goes higher	Lower; unit price varies little as wall goes higher
Appearance	Rigid, unnatural	Can be shaped into various geometric patterns, together with vegetation to blend in with surroundings
Installation	Slower- requires excavation, steel bar placement, modulation, and pouring concrete	Construction is simple and fast; an ideal option for urgent projects.
Design concept	External stability- use RC wall to provide moment and anti-sliding	Internal stability- reinforced geosynthetics material provides source of stability
Aseismic Characteristic	Converged stress tends to create cracks	Reinforced material provides high tensile strength. Stress is evenly distributed; structure will hold stable and stay intact.
Foundation	Requires pile foundation unless soil is sufficiently stiff.	Pile foundation is not needed in most soil conditions.
Drainage System	Drainage layers together with pipes placed right behind RC wall.	Drainage layers made of permeable geocomposit materials and geopipes placed between back-fill and original soil.



ACE GEOSYNTHETICS ENTERPRISE CO., LTD

ACE Geogrids are woven from high-strength polyester yarns and coated with black PVC.

(TECHNICAL DATA)

Properties	Unit	GG20-II	GG30-II	GG40-I	GG60-I	GG80-I	GG100-I	GG150-I	GG200-I	GG400-I	GG600-I
Type of product	GEOGRID MADE FROM HIGH TENACITY PET YARNS										
Material	HIGH TENACITY PET COATED WITH PVC										
Tensile Strength (T - ult) MD	KN/m	20	30	40	60	80	100	150	200	400	600
CD		20	30	30	30	30	30	30	30	30	50
Elongation MD	%	<10	<10	<10	<10	<10	<11	<11	<12	<14	<15
Tensile Strength at 5%	KN/m	12	18	20	38	50	58	83	100	180	260
Unit Weight ±20%	g/m ²	190	245	280	340	400	420	560	730	1350	2100
Aperture Size MD±20%	mm	27	25	24	23	22	20	19	18	21	13
CD±20%	mm	28	28	28	28	28	28	28	28	26	24

TEST STANDARD: ASTM-D6637

Forums of Supply	Unit	GG20-II	GG30-II	GG40-I	GG60-I	GG80-I	GG100-I	GG150-I	GG200-I	GG400-I	GG600-I
Length	m	50	50	50	50	50	50	50	50	50	50
Width	m	4	4	4	4	4	4	4	4	4	4
Area	m ²	200	200	200	200	200	200	200	200	200	200
Weight of roll approx.	kg	38	49	56	68	80	84	112	146	270	420
20' CONTAINER/*	m ²	20,000	20,000	18,000	15,000	14,000	13,000	10,800	9,000	6,000	4,000
40' CONTAINER/*	m ²	40,000	40,000	36,000	30,000	28,000	26,000	21,600	18,000	12,000	8,000
40' CONTAINER/M2 WITH 3.9M WIDTH	m ²	58,500	58,500	52,650	43,875	40,950	38,025	31,590	26,325	17,550	11,700

The values given are indicative and correspond to a average results attained in our laboratories and in testing institutes.
The right is reserved to make changes without notice.

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