## 626 - Retaining Wall Systems Effective Date: January 18, 2023 Contact: Adam M. Gillispie (304) 414-6623 Email: Adam.M.Gillispie@WV.Gov

This is an approved list of Mechanically Stabilized Earth (MSE) Retaining Wall Systems and does not remove

the requirements for the designs and materials to be approved prior to use as per Section 626 of the Standard Specification.

See the Bridge Design Manual, Table 3.10.1.4B for application of these wall systems and limitations which include:

1. No utilities shall be permitted in the reinforced fill zone.

2. Reinforcement shall not be exposed to soils with low resistivity (<3,000 ohm-cm), high sulfates (200 ppm), or

high chloride (100 ppm) contents.

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3. Not to be used in areas with unpredictable erosion or having uncontrolled scour below the reinforced fill zone.

	<b>Mechanically Stabilized Earth (MSE) Retaining Wa</b> (Precast Concrete Panel Wall System) MSE Panels	-
System	Manufacturer	Approval Number
	Height limited to 60 ft	-
Reinforced Earth	The Reinforced Earth Company Vienna, VA (R170A) REC1.01.626	1349758A
ISOGRID	The Neel Company Springfield, VA (N123A) NCX1.01.626	1349759A
MSE Plus	SSL Scotts Valley, CA (S423A) SSL1.01.616	1349760A
Tricon	Tricon Precast, Ltd. Houston Texas (T183A) TPL1.01.626	1380649A
Vista Wall	Vist - A - Wall Systems Mansfield, TX 76063 VWS1.01.626	1428608A

Mech	anically Stabilized Earth (MSE) Retaining Wall System (Precast Concrete Panel Wall System)	ms (Continued)
System	Manufacturer	Approval Number
	Height Limited to 50 ft	
Earth Trac	EarthTec, Inc. Purcellville, VA (E136A) EIC1.0.626	1393169A
	Height Limited to 40 ft	
Ares	Tensar Earth Technologies, In Atlanta, GA (T173A) TET1.01.626	1349761A
	Height Limited to 30 ft	
*** Gravix	Gravix Retaining Wall System	1458723A
*** Elevate	Elevate Retaining Walls Morris, IL ERW1.01.626	1901279A
***OPTIMA	OPTIMA MSE Retaining Walls	2200399A

\*\*\* Note: Use Select Granular Backfill per Specificaiton 626.5.3.1 within the volume from the back of the wall to a vertical projected of the end of the bottom stem section to the ground surface. The remaining backfill can be random material.

	MSE Wire - Faced Retainnig Wall Systems 626.002.004	
System	Manufacturer	Approval Number
	Height Limited to 60 ft	
Reinforced Earth	The Reinforced Earth Company Vienna, VA (R170A) REC1.01.626	1349763A
MSE Plus	SSL Scotts Valley, CA (S423A) SSL1.01.616	1349764A
	Height Limited to 40 ft	
Mesa <sup>a b</sup>	Tensar Earth Technologies, Inc. Atlanta, GA (T173A) TET1.01.626	1349766A
Ares <sup>a</sup>	Tensar Earth Technologies, Inc. Atlanta, GA (T173A) TET1.01.626	1349761A
a b	Can only be used as a temporary system for a maximum of three (3) years Must be constructed with the high performance connector	

Modular Block Wall Systems listed below are approved with the following conditions:

1. No utilities shall be permitted in the reinforced fill zone.

2. Not to be used in areas with erosion or scour below the reinforced fill zone.

3. Concrete must comply with requirements of Section 626.5.1.1.1.

4. Block size tolernaces must comply with the requirements of Section 626.5.1.1.2.

	MSE Modular Block Wall Systems 626.002.003	
System	Manufacturer	Approval Number
CLASS I - Height	t Limited to 40 ft	
KeySystem 1	Keystone Retaining Wall Systems, Inc. Minneapolis, MN (K116A) KRW1.01.626	1349765A

	MSE Modular Block Wall Systems	
System	626.002.003 Manufacturer	Approval Number
CLASS I - Height	t Limited to 40 ft (Continued)	<u>и</u>
Mesa	Tensar Earth Technologies, Inc. Atlanta, GA (T173A) TET1.01.626	1349766A
Landmark	Anchor Wall Systems, Inc. Minnetonka, MN (A317A) AWS2.01.626	1349767A
Magnum Stone	SSL Scotts Valley, CA (S423A) SSL1.01.616	1422575A
Redi-Rock Positive Connection	Redi-Rock International Charlvoix, MI (R183A)	1425060A
System	RRI1.01.626	
Stone Strong	Stone Strong System Omaha, NE CSC1.06.626	1465534A
CLASS II - Heigh	t Limited to 20 ft (Note Class I may be substituted.)	1
ReCon	ReCon Retaining Wall Systems, Inc. St Louis Park, MN (R182A) RCR1.01.626	1424718A
Verti-Block	Verti-Block Foster Supply Scott Depot, WV FSC1.01.605	1458720A
CLASS III - Heig	ht Limited to 10 ft (Note Class I or II may be substituted.)	
Anchor	Anchor Wall Systems, Inc. Minnetonka, MN (A317A)	1349770A
Genesis	Keystone Retaining Wall Systems, Inc. Minneapolis, MN (K116A) KRW1.01.626	1349769A

	MSE Modular Block Wall Systems 626.002.003	
System	Manufacturer	Approv Numbe
CLASS III - Height Lim	ited to 10 ft Continued (Note Class I or II may be sub	stituted.)
Keystone	Keystone Retaining Wall Systems, Inc. Minneapolis, MN (K116A) KRW1.01.626	134976
Redi-Rock	Redi-Rock International Charlvoix, MI (R183A) RRI1.01.626	138651
Redi-Scapes	Redi-Rock International Charlvoix, MI (R183A) RRI1.01.626	142471
ReCon	ReCon Retaining Wall systems, Inc St Louis Park, MN (R182A) RCR1.01.626	142471
CLASS IV - Height Lim	ited to 5 ft (Note Class I, II, or III may be substitu	ited.)
Anchor	Anchor Wall Systems, Inc. Minnetonka, MN (A317A)	134977
Keystone	Keystone Retaining Wall Systems, Inc. Minneapolis, MN (K116A) KRW1.01.626	134977
Redi-Rock <sup>c</sup>	Redi-Rock International Charlvoix, MI (R183A) RRI1.01.626	138651
	ved up to 10 ft with 41" deep blocks. ed to 5 ft with 28" deep blocks	