

626 - Retaining Wall Systems

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

Mechanically Stabilized Earth (MSE) Retaining Wall Systems <i>(Precast Concrete Panel Wall System) MSE Panels 626.002.002</i>		
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

Mechanically Stabilized Earth (MSE) Retaining Wall Systems (Continued) <i>(Precast Concrete Panel Wall System)</i>		
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 Retainning 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 ^{a b}	Tensar Earth Technologies, Inc. Atlanta, GA (T173A) TET1.01.626	1349766A
Ares ^a	Tensar Earth Technologies, Inc. Atlanta, GA (T173A) TET1.01.626	1349761A
^a Can only be used as a temporary system for a maximum of three (3) years ^b 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 Limited to 40 ft		
KeySystem 1	Keystone Retaining Wall Systems, Inc. Minneapolis, MN (K116A) KRW1.01.626	1349765A

MSE Modular Block Wall Systems 626.002.003		
System	Manufacturer	Approval Number
CLASS I - Height Limited to 40 ft (Continued)		
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 System	Redi-Rock International Charlvoix, MI (R183A) RRI1.01.626	1425060A
Stone Strong	Stone Strong System Omaha, NE CSC1.06.626	1465534A
CLASS II - Height Limited to 20 ft (Note Class I may be substituted.)		
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 - Height 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	Approval Number
CLASS III - Height Limited to 10 ft Continued (Note Class I or II may be substituted.)		
Keystone	Keystone Retaining Wall Systems, Inc. Minneapolis, MN (K116A) KRW1.01.626	1349768A
Redi-Rock	Redi-Rock International Charlvoix, MI (R183A) RRI1.01.626	1386514A
Redi-Scapes	Redi-Rock International Charlvoix, MI (R183A) RRI1.01.626	1424719A
ReCon	ReCon Retaining Wall systems, Inc St Louis Park, MN (R182A) RCR1.01.626	1424719A
World ^d Block Landscape Block	World Block Inc Duluth, MN	2301477A
CLASS IV - Height Limited to 5 ft (Note Class I, II, or III may be substituted.)		
Anchor	Anchor Wall Systems, Inc. Minnetonka, MN (A317A)	1349771A
Keystone	Keystone Retaining Wall Systems, Inc. Minneapolis, MN (K116A) KRW1.01.626	1349772A
Redi-Rock ^c	Redi-Rock International Charlvoix, MI (R183A) RRI1.01.626	1386515A
^c Allowed up to 10 ft with 41" deep blocks. Limited to 5 ft with 28" deep blocks		
^d Design submitted must still be approved by District Construction where the project and MSE Block Wall is located		