How to install the posted update?

Replace your earlier version of **MSEW+.exe** with the one included in this download. After downloading and unzipping the posted update, you can use File Explorer to copy and paste the executable file.   The default directory of MSEW installation where MSEW+.exe is residing:

C:\Programs File(x86)\ADAMA\MSEW+\

List of Changes in each Update:

Update 2021.12 (2021-02-14): A calculator to assess the facing stiffness factor, Φ_{fs}, factor has been added – see Stiffness Method, Internal Stability LR Factors.

Update 2021.11 (2021-02-01): When calculating the factored connection capacity for extensible reinforcement in Simplified AASHTO (2017-2020), MSEW+ used a reduction factor for durability, RFd, which is likely higher than the specified value. Consequently, the computed long-term CDR for the connection was smaller than should be. The connection values were corrected in Analysis and Design Modes.

Update 2021.10 (2021-01-24): The Coherent Gravity Analysis (CGA) was modified to include two options. Option A is the same as currently implemented [i.e., vertical force component of resultant lateral earth pressure on the reinforced mass, $F_T \sin(\delta)$, is ignored in calculating R and, subsequently, σ_v, while it is considered in calculating eccentricity, e]. Option B considers rigorously all force components. In addition, Kr(Z) distribution (K_o at Z=0 varies linearly to Ka at Z=6 m) in Option B starts at the soil surface whereas in Option A it starts at the elevation of the top of the wall. Therefore, for horizontal crest Kr distribution is the same. The updated program includes detailed explanation and tips.

Update 2020.21 (2020-12-20): In Strength results of the Coherent Gravity Method, a column was added to the displayed table showing the eccentricity associated with the calculations of T_{max} at each reinforcement level. This eccentricity considers the factored loads within the reinforced zone.

Update 2020.2 (2020-11-25): When surcharge load is specified, CDR in Strength (AASHTO 2017-2020 Simplified) was inaccurate; this bug has been fixed. A simple, uniform format of all tables was implemented. Printout of some data was corrected/modified.