

Soil retention elements

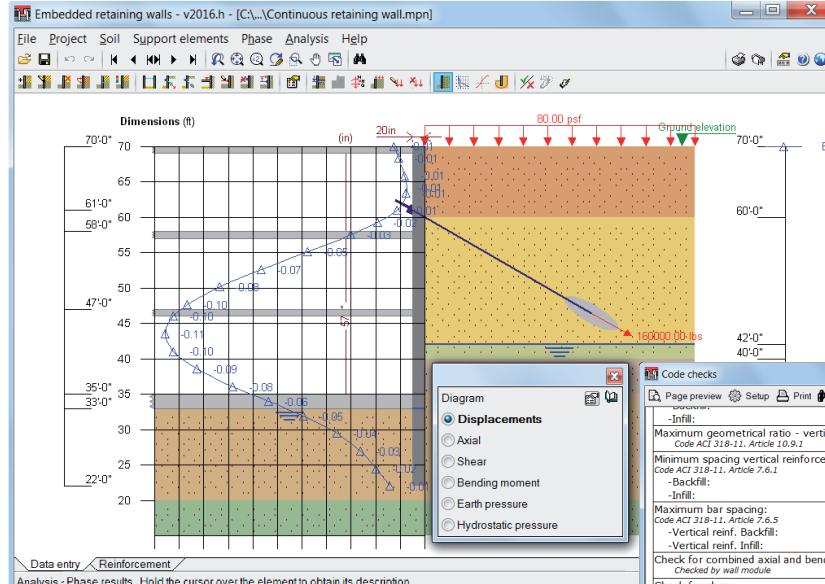
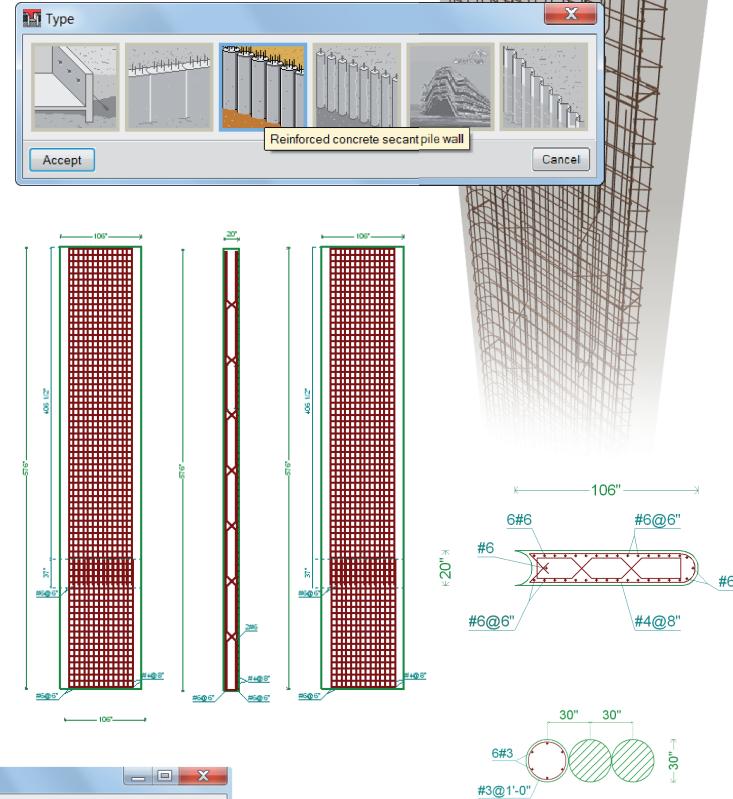
All that we are, all that we do is to aid our users with **their projects and jobs**



Embedded retaining walls

Analysis, design and check of retaining walls composed or reinforced concrete, concrete in-situ piles, steel sheet piles and mini pile screens.

- Possibility of defining different **soil layers**, berms at the infill and excavations at the backfill by phases.
- Active and passive **anchors**, struts, slabs, etc.
- Floor slabs** at different levels.
- Option to consider **seismic action**.
- Non-linear analysis**, considering elastoplastic behaviour for the soil and support elements.
- Global stability analysis**. Ratio between the balancing moment of the passive pressure at the infill; safety factor of the passive pressure at the infill; and worst case slip circle.
- Design** for the different construction phases.
- Reports**: data, drawings of the construction phases, design results, force and deformation diagrams and material takeoff.
- Drawings** displaying reinforcement layout with the option to edit and check the modifications.



Report selection							
Continuous reinforced concrete retaining wall							
Date: 01/27/16							
Elevation (ft)	Displacements (in)	Axial (ft-lbf)	Shear (lb/in)	Bendingmoment (in-lbf)	Earthpressure (psi)	Hydrostaticpressure (psi)	
Minimum	-0.11	0.00	9484.72	1813.53	0.00	0.00	
Maximum	70.00	0.03	2818.49	24.85	691.07	0.00	
	0.00	0.01	2695.26	24.85	673.84	0.00	
26.76	-0.04	10115.02	3227.56	200.25	720.79	102.81	0.00
27.21	-0.05	10115.02	3227.56	200.25	720.79	102.81	0.00
46.81	-0.10	12098.25	12098.25	16004.75	308.94	0.00	0.00
37.72	-0.08	13700.99	13700.99	16004.75	308.94	0.00	0.00
33.56	-0.06	16104.55	16104.55	16004.75	317.00	312.81	525.26
23.60	-0.07	18775.76	18775.76	1653.60	1764.67	74.07	561.05

PHASE 6: FLOOR SLAB 2

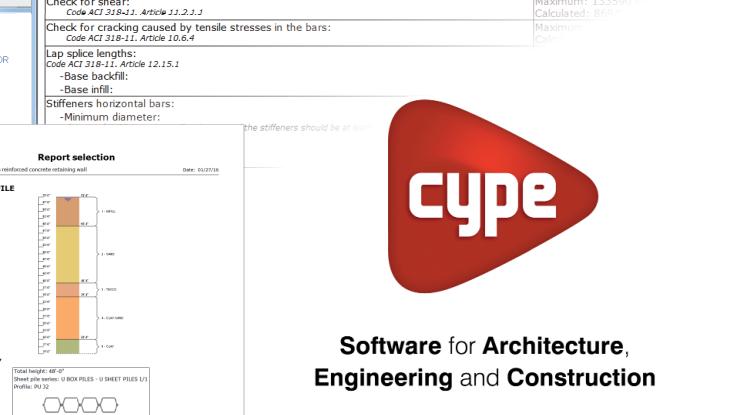
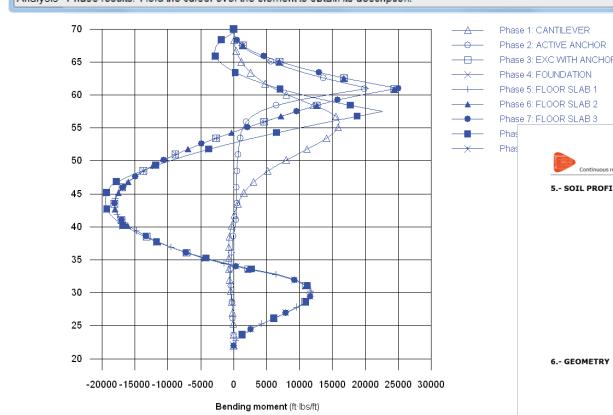
BASIC

Elevation (ft)	Displacements (in)	Axial (ft-lbf)	Shear (lb/in)	Bendingmoment (in-lbf)	Earthpressure (psi)	Hydrostaticpressure (psi)
Minimum	-0.03	0.00	2818.49	24.85	691.07	0.00
Maximum	70.00	0.03	2695.26	24.85	673.84	0.00
	0.00	0.01	2695.26	24.85	673.84	0.00
26.76	-0.04	10115.02	3227.56	200.25	720.79	102.81
27.21	-0.05	10115.02	3227.56	200.25	720.79	102.81
46.81	-0.10	12098.25	12098.25	16004.75	308.94	0.00
37.72	-0.08	13700.99	13700.99	16004.75	308.94	0.00
33.56	-0.06	16104.55	16104.55	16004.75	317.00	312.81
23.60	-0.07	18775.76	18775.76	1653.60	1764.67	74.07

PHASE 6: FLOOR SLAB 2

BASIC

Elevation (ft)	Displacements (in)	Axial (ft-lbf)	Shear (lb/in)	Bendingmoment (in-lbf)	Earthpressure (psi)	Hydrostaticpressure (psi)
Minimum	-0.03	0.00	2818.49	24.85	691.07	0.00
Maximum	70.00	0.03	2695.26	24.85	673.84	0.00
	0.00	0.01	2695.26	24.85	673.84	0.00
26.76	-0.04	10115.02	3227.56	200.25	720.79	102.81
27.21	-0.05	10115.02	3227.56	200.25	720.79	102.81
46.81	-0.10	12098.25	12098.25	16004.75	308.94	0.00
37.72	-0.08	13700.99	13700.99	16004.75	308.94	0.00
33.56	-0.06	16104.55	16104.55	16004.75	317.00	312.81
23.60	-0.07	18775.76	18775.76	1653.60	1764.67	74.07



cype

Software for Architecture,
Engineering and Construction