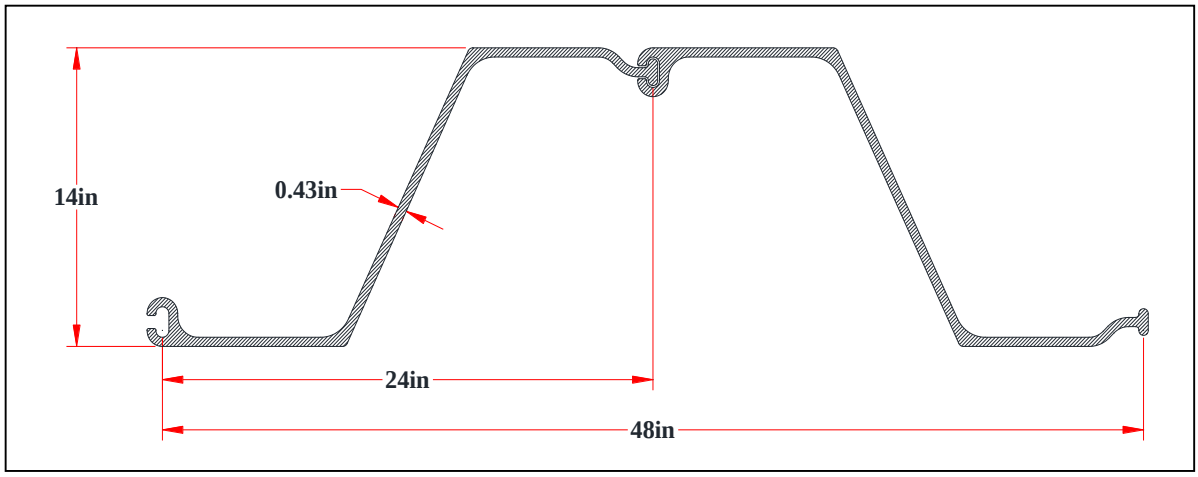
EverComp 80.5 ™ FRP Sheet Pile

Technical Data Sheet

AL - Along length of sheet pile AWS - Along width of sheet pile

Property	Symbol	Units	Results	ASTM Test Method
Flexural Stress:				
Ultimate (AL)	$\sigma_{ult\ AL}$	psi	68,800	D 790-03
Recommended Allowable Stress(AL)	$\sigma_{all\ AL}$	psi	20,000	-------
Modulus of Elasticity (AL)*	E_{AL}	psi	3,890,000	D 790-03
Ultimate (AWS)	$\sigma_{ult\ AWS}$	psi	20,000	D 790-03
Modulus of Elasticity (AWS)	E_{AWS}	psi	1,660,000	D 790-03
Tensile Stress:				
Ultimate (AL)	$\sigma_{ult\ AL}$	psi	62,500	D 638-03
Recommended Allowable Stress(AL)	$\sigma_{all\ AL}$	psi	20,000	-------
Modulus of Elasticity (AL)	E_{AL}	psi	5,200,000	D 638-03
Ultimate (AWS)	$\sigma_{ult\ AWS}$	psi	6,800	D 638-03
Modulus of Elasticity (AWS)	E_{AWS}	psi	1,150,000	D 638-03
Shear Stress:				
Ultimate (AL)	$\tau_{ult\ AL}$	psi	32,600	D 2344-00
Recommended Allowable Stress(AL)	$\tau_{all\ AL}$	psi	6,000	-------
Ultimate (AWS)	$\sigma_{ult\ AWS}$	psi	18,800	D 2344-00



Properties of Sheet Pile:				
Width	W	in	24.0	-------
Depth	D	in	14.0	-------
Thickness	t	in	0.43	-------
Section Modulus	Z	in^3/ft	38	-------
Moment of Inertia*	I	in^4/ft	268	-------
Radius of Gyration (pair)	r	in	5.65	-------
Area of Web	A_W	in^2	6.5	-------

*Note: Deflection should be limited and usually controls the design. Maximum deflection to be determined by the project's engineer. ESP recommends that max. deflection shoud be less than 2% of the span e.g. distance from lowest wale support to ground line.

The values shown are averages and may vary. No warranties of any kind are made as to the suitability of ESP sheet piling for particular applications

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