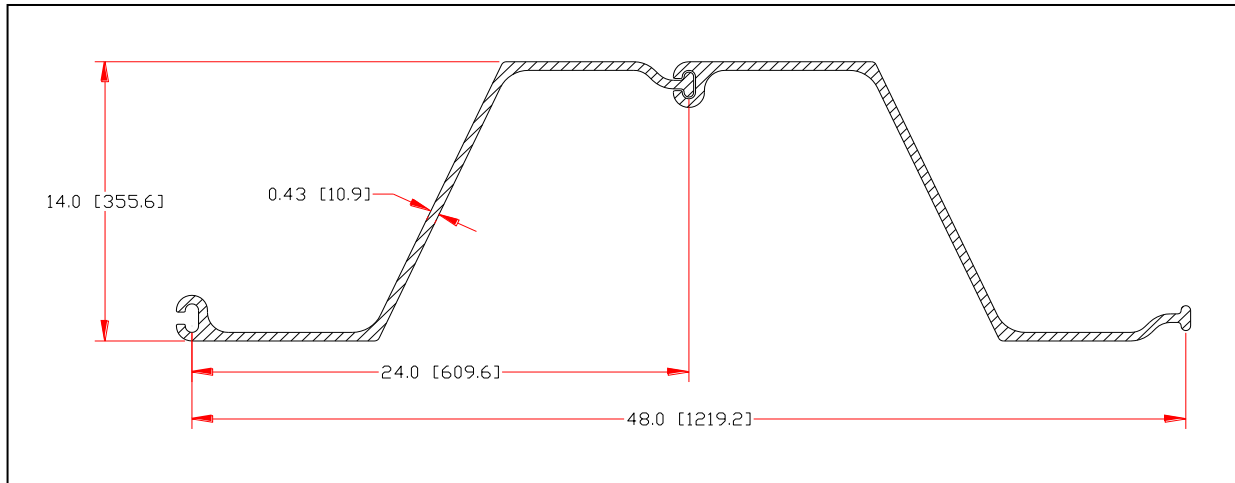


AL - Along length of sheet pile

AWS - Along width of sheet pile

| Property | Symbol | Units | Results | ASTM Test Method |
|----------------------------------|--------------------|-------|-----------|------------------|
| <i>Flexural Stress:</i> | | | | |
| Ultimate (AL) | $\sigma_{ult AL}$ | psi | 75,000 | D 790-03 |
| Recommended Allowable Stress(AL) | $\sigma_{all AL}$ | psi | 20,000 | ----- |
| Modulus of Elasticity (AL) | E_{AL} | psi | 4,100,000 | D 790-03 |
| Ultimate (AWS) | $\sigma_{ult AWS}$ | psi | 20,000 | D 790-03 |
| Modulus of Elasticity (AWS) | E_{AWS} | psi | 1,500,000 | D 790-03 |
| <i>Tensile Stress:</i> | | | | |
| Ultimate (AL) | $\sigma_{ult AL}$ | psi | 75,000 | D 638-03 |
| Recommended Allowable Stress(AL) | $\sigma_{all AL}$ | psi | 20,000 | ----- |
| Modulus of Elasticity (AL) | E_{AL} | psi | 5,500,000 | D 638-03 |
| Ultimate (AWS) | $\sigma_{ult AWS}$ | psi | 6,800 | D 638-03 |
| Modulus of Elasticity (AWS) | E_{AWS} | psi | 1,700,000 | D 638-03 |
| <i>Shear Stress:</i> | | | | |
| Ultimate (AL) | $T_{ult AL}$ | psi | 5,600 | D 2344-00 |
| Recommended Allowable Stress(AL) | $T_{all AL}$ | psi | 1,800 | ----- |
| Ultimate (AWS) | $\sigma_{ult AWS}$ | psi | 2,700 | D 2344-00 |



| | | | | |
|----------------------------------|-------|---------------------|------|-------|
| <i>Properties of Sheet Pile:</i> | | | | |
| 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 | ----- |

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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