

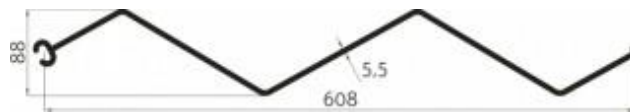
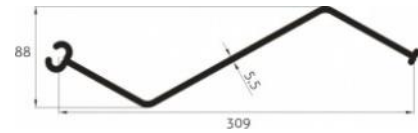
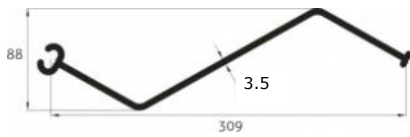
THE Budget Pile Specifications 2025

Format	Units	EcoZ rib	DuoRib	Europile	EcoZ Box 5.5
Ultimate Moment	kNm/m	3.8	3.8	14.1	16.3
Allowable Moment (FOS=3)	kNm/m	1.27	1.27	4.7	5.43
Ultimate Stiffness	kNm ² /m		8.8	42.4	84.9
Allowable Stiffness	kNm ² /m		4.4	21.2	42.5
Section Modulus (Z)	cm ³ /m	87.3	86.6	320	369
Moment of Inertia (I)	cm ⁴ /m	385	382	1842	3266
Cross Sectional Area	cm ²			29.7	22.3
Effective Pile Width	mm	309	608	300	270
Depth of Section	mm	88	88	115	155.5
Thickness	mm	5.5	5.5	5.5	5.5
Material		Recycled PVC			
Weight per m (product)	Kg	3.05	5.8	4.3	
Modulus of Elasticity	MPa	2600			
Density PN-EN ISO 1183-1	g/cm ³	1.44 ± 10%			
Charpy Impact test PN ENI SO 179-1	kJ/m ²	≥30			
Shore durometer PN-EN ISO 868	Shore'a D	≥65			
Softening point Vicat Method PN-EN ISO 306	°C	≥75			
Tensile Strength PN-EN-ISO 527-1	MPa	≥44± 5%			
Tensile Modulus of elasticity PN-EN-ISO 527-1	MPa	≥2300			

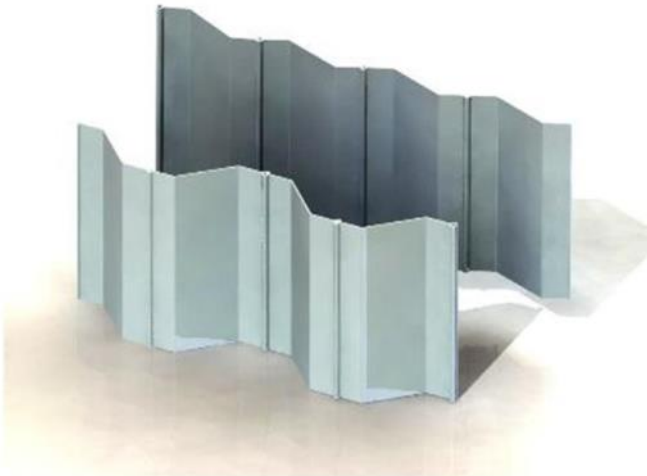
Duo-Rib vs EcoZ Rib



- One less interlock = less material = less cost
 - One less interlock = better sealing
 - Wider pile = greater rigidity



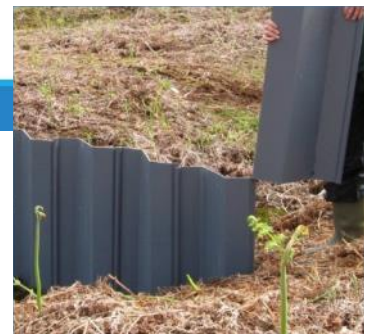
Looking at the Z pile options



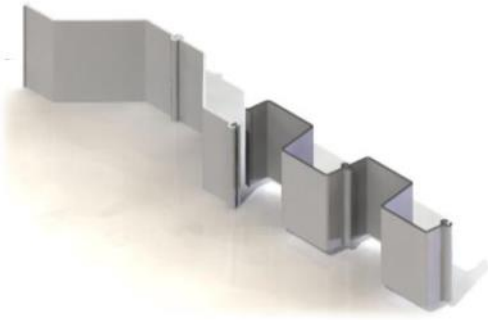
Rib



Box

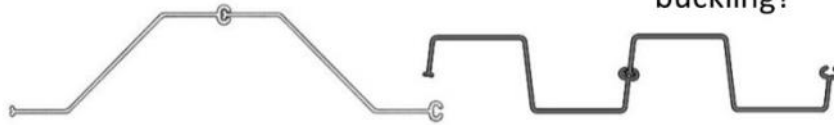


Slenderness Ratios



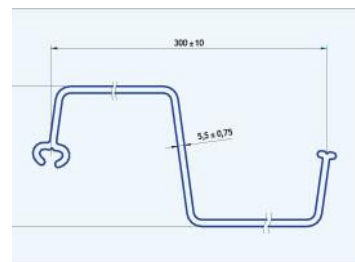
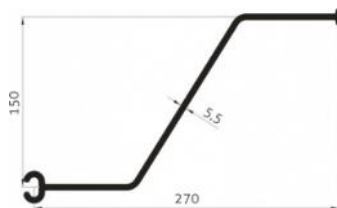
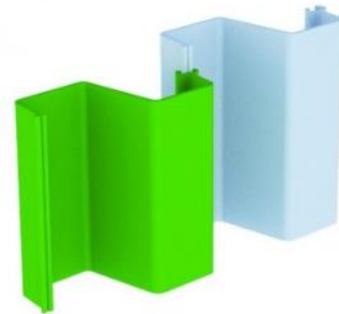
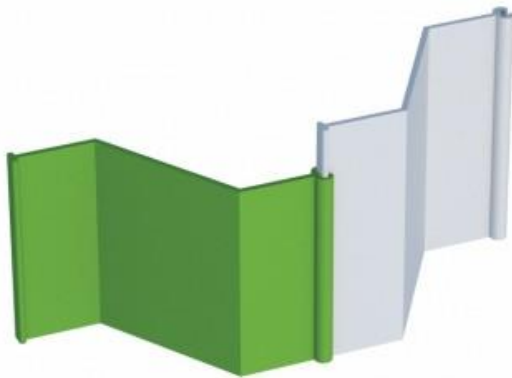
Example
The EcoZ Vs Europile

In this format both products have similar strengths, but which is the most prone to buckling?

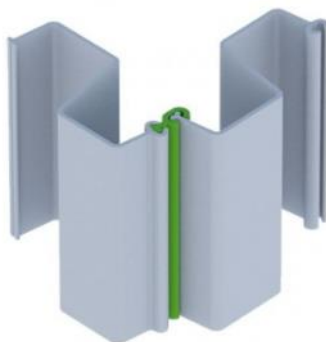


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Clearly the deeper profile—so the Z pile



lacznik kata 90st



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