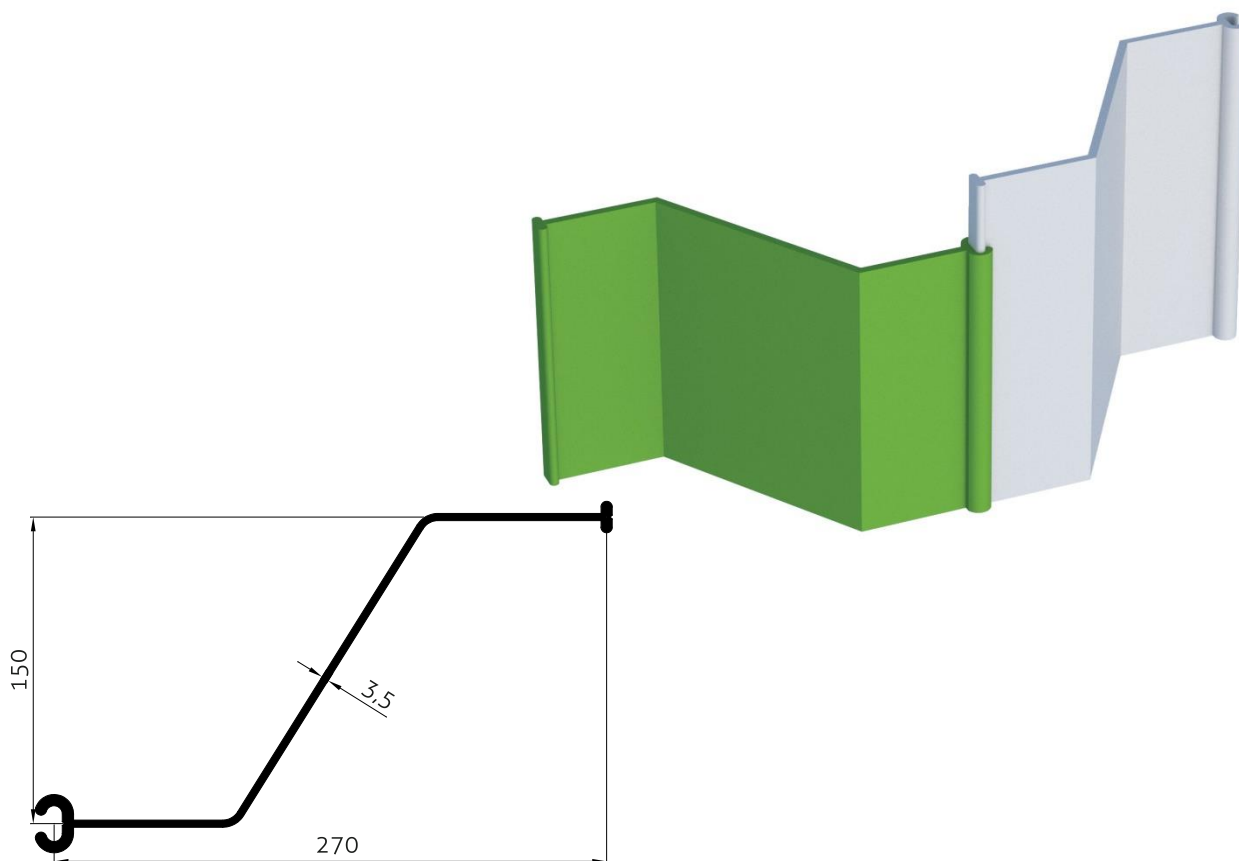




Technical specification

Vinyl sheet pile GW 270/3,5 – trapezoid



	Unit	Value
Section width	mm	270
Section depth	mm	150
Thickness	mm	3,5
Section modulus	cm ³ /m	254
Moment of inertia	cm ⁴ /m	2327
Allowable moment*	kNm/m	5,6
Ultimate moment	kNm/m	11,2

* Safety factor = 2



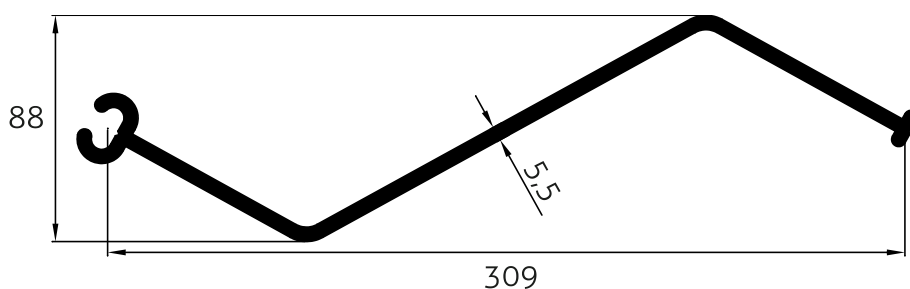
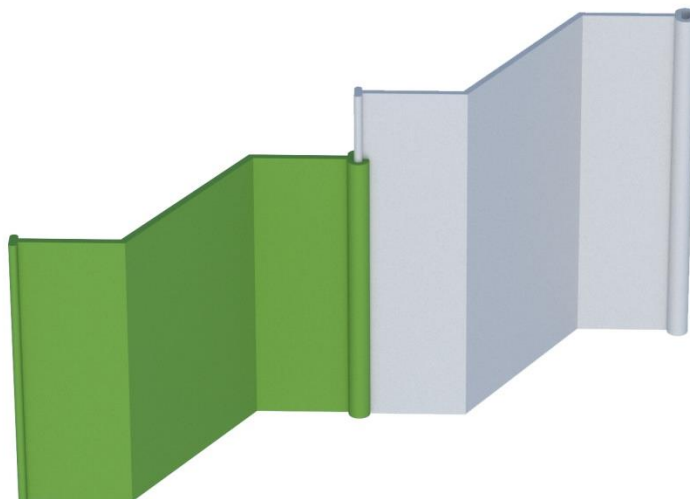
	Unit	Norm	Value
Density	kg/m ³	PN-EN ISO 1183-3:2003	1400-1480
Charpy impact test	kJ/m ²	PN-EN ISO 179-1:2004	≥30
Shore durometer	Shore'a D	PN-EN ISO 868:2005	≥75
Softening point Vicat method	°C	PN-EN ISO 306:2004	≥77
Tensile strength	MPa	PN-EN ISO 527-2:1998	≥44
Tensile modulus of elasticity	MPa	PN-EN ISO 527-2:1998	≥2600
Bending modulus of elasticity	MPa	PN-EN ISO 178:2006	≥2600
Bending strength:	MPa	PN-EN ISO 178:2006	≥65
Resistance of climatic ageing , after energy 2,6 GJ/m ² radiation: • resistance of changing dye • change of Charpy impact	%	PN-EN 513:2002 PN-EN ISO 4892-2 met.A PN-EN 20105-A03:1996 PN-EN ISO 179-1:2004	not less than 4 in gray scale ≤30

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Technical specification

Vinyl sheet pile GW 270/5,5 – wave



	Unit	Value
Section width	mm	309
Section depth	mm	88
Thickness	mm	5,5
Section modulus	cm ³ /m	87,3
Moment of inertia	cm ⁴ /m	385
Allowable moment*	kNm/m	1,9
Ultimate moment	kNm/m	3,8

* Safety factor = 2

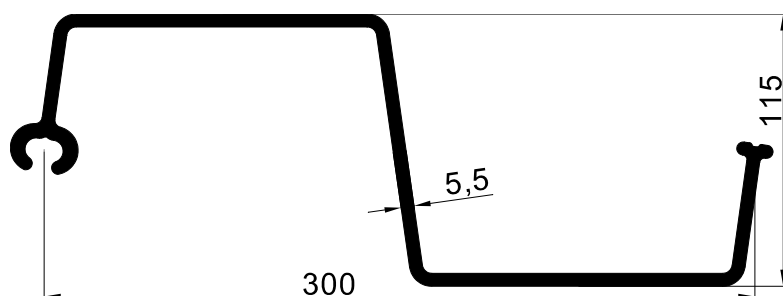
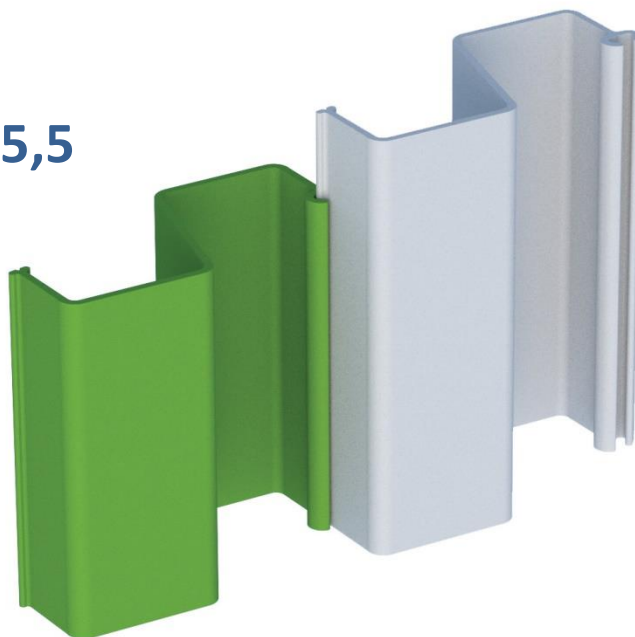


	Unit	Norm	Value
Density	kg/m ³	PN-EN ISO 1183-3:2003	1400-1480
Charpy impact test	kJ/m ²	PN-EN ISO 179-1:2004	≥30
Shore durometer	Shore'a D	PN-EN ISO 868:2005	≥75
Softening point Vicat method	°C	PN-EN ISO 306:2004	≥77
Tensile strength	MPa	PN-EN ISO 527-2:1998	≥44
Tensile modulus of elasticity	MPa	PN-EN ISO 527-2:1998	≥2600
Bending modulus of elasticity	MPa	PN-EN ISO 178:2006	≥2600
Bending strength:	MPa	PN-EN ISO 178:2006	≥65
Resistance of climatic ageing , after energy 2,6 GJ/m ² radiation: • resistance of changing dye • change of Charpy impact	%	PN-EN 513:2002 PN-EN ISO 4892-2 met.A PN-EN 20105-A03:1996 PN-EN ISO 179-1:2004	not less than 4 in gray scale ≤30



Technical specification

Vinyl sheet pile GW 300/5,5



	Unit	Value
Section width	mm	300
Section depth	mm	115
Thickness	mm	5,5
Section modulus	cm ³ /m	320
Moment of inertia	cm ⁴ /m	1842
Allowable moment*	kNm/m	7,0
Ultimate moment	kNm/m	14,1

* Safety factor = 2

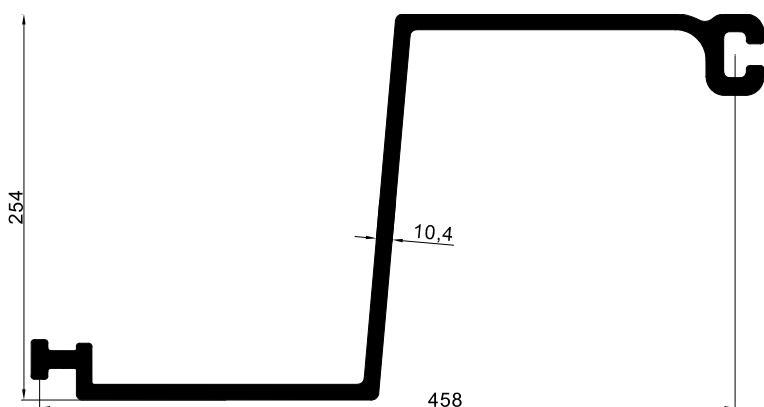
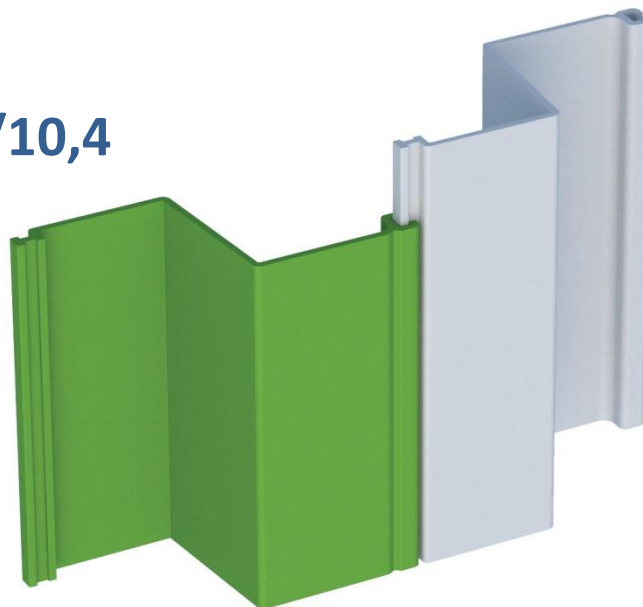


	Unit	Norm	Value
Density	kg/m ³	PN-EN ISO 1183-3:2003	1400-1480
Charpy impact test	kJ/m ²	PN-EN ISO 179-1:2004	≥30
Shore durometer	Shore'a D	PN-EN ISO 868:2005	≥75
Softening point Vicat method	°C	PN-EN ISO 306:2004	≥77
Tensile strength	MPa	PN-EN ISO 527-2:1998	≥44
Tensile modulus of elasticity	MPa	PN-EN ISO 527-2:1998	≥2600
Bending modulus of elasticity	MPa	PN-EN ISO 178:2006	≥2600
Bending strength:	MPa	PN-EN ISO 178:2006	≥65
Resistance of climatic ageing , after energy 2,6 GJ/m ² radiation: • resistance of changing dye • change of Charpy impact	%	PN-EN 513:2002 PN-EN ISO 4892-2 met.A PN-EN 20105-A03:1996 PN-EN ISO 179-1:2004	not less than 4 in gray scale ≤30



Technical specification

Vinyl sheet pile GW 458/10,4



	Unit	Value
Section width	mm	458
Section depth	mm	254
Thickness	mm	10,4
Section modulus	cm ³ /m	1541,5
Moment of inertia	cm ⁴ /m	20718
Allowable moment*	kNm/m	33,9
Ultimate moment	kNm/m	67,8

* Safety factor = 2

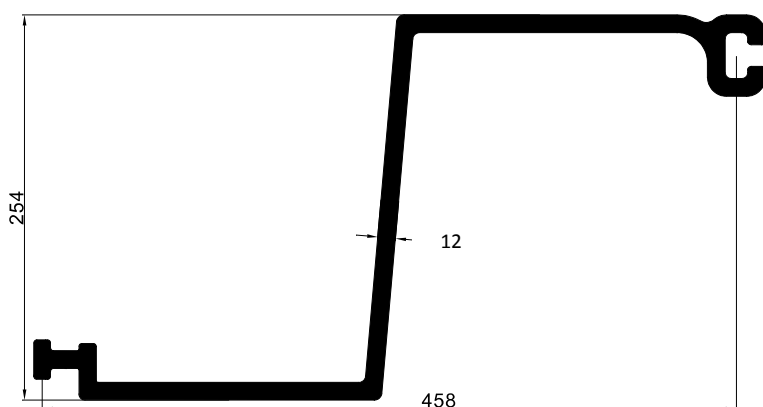
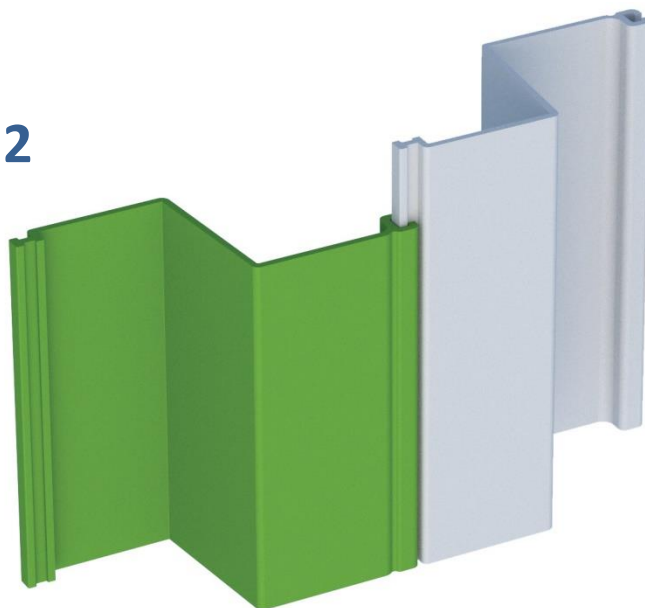


	Unit	Norm	Value
Density	kg/m ³	PN-EN ISO 1183-3:2003	1400-1480
Charpy impact test	kJ/m ²	PN-EN ISO 179-1:2004	≥30
Shore durometer	Shore'a D	PN-EN ISO 868:2005	≥75
Softening point Vicat method	°C	PN-EN ISO 306:2004	≥77
Tensile strength	MPa	PN-EN ISO 527-2:1998	≥44
Tensile modulus of elasticity	MPa	PN-EN ISO 527-2:1998	≥2600
Bending modulus of elasticity	MPa	PN-EN ISO 178:2006	≥2600
Bending strength:	MPa	PN-EN ISO 178:2006	≥65
Resistance of climatic ageing , after energy 2,6 GJ/m ² radiation: • resistance of changing dye • change of Charpy impact	%	PN-EN 513:2002 PN-EN ISO 4892-2 met.A PN-EN 20105-A03:1996 PN-EN ISO 179-1:2004	not less than 4 in gray scale ≤30



Technical specification

Vinyl sheet pile GW 458/12



	Unit	Value
Section width	mm	458
Section depth	mm	254
Thickness	mm	12
Section modulus	cm ³ /m	1717
Moment of inertia	cm ⁴ /m	22937
Allowable moment*	kNm/m	37,8
Ultimate moment	kNm/m	75,5

* Safety factor = 2

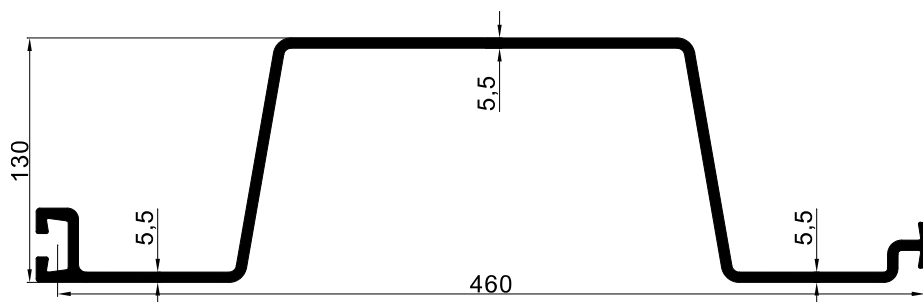
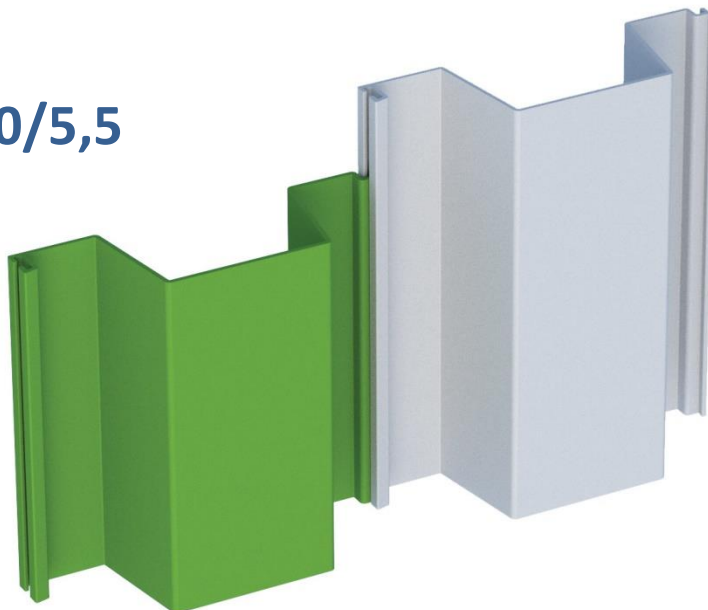


	Unit	Norm	Value
Density	kg/m ³	PN-EN ISO 1183-3:2003	1400-1480
Charpy impact test	kJ/m ²	PN-EN ISO 179-1:2004	≥30
Shore durometer	Shore'a D	PN-EN ISO 868:2005	≥75
Softening point Vicat method	°C	PN-EN ISO 306:2004	≥77
Tensile strength	MPa	PN-EN ISO 527-2:1998	≥44
Tensile modulus of elasticity	MPa	PN-EN ISO 527-2:1998	≥2600
Bending modulus of elasticity	MPa	PN-EN ISO 178:2006	≥2600
Bending strength:	MPa	PN-EN ISO 178:2006	≥65
Resistance of climatic ageing , after energy 2,6 GJ/m ² radiation: • resistance of changing dye • change of Charpy impact	%	PN-EN 513:2002 PN-EN ISO 4892-2 met.A PN-EN 20105-A03:1996 PN-EN ISO 179-1:2004	not less than 4 in gray scale ≤30



Technical specification

Vinyl sheet pile GW 460/5,5



	Unit	Value
Section width	mm	460
Section depth	mm	130
Thickness	mm	5,5
Section modulus	cm ³ /m	360
Moment of inertia	cm ⁴ /m	2527
Allowable moment*	kNm/m	7,9
Ultimate moment	kNm/m	15,8

* Safety factor = 2

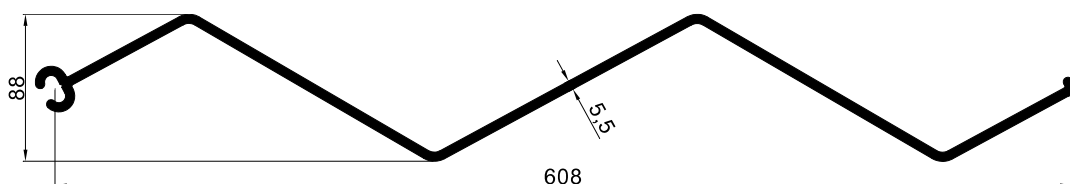
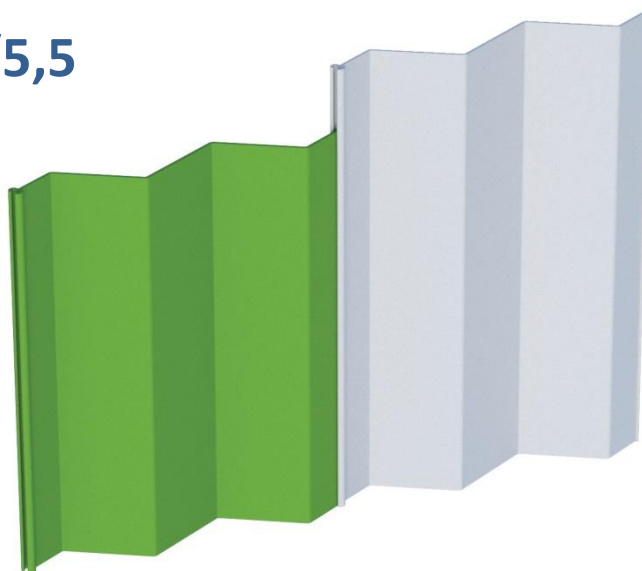


	Unit	Norm	Value
Density	kg/m ³	PN-EN ISO 1183-3:2003	1400-1480
Charpy impact test	kJ/m ²	PN-EN ISO 179-1:2004	≥30
Shore durometer	Shore'a D	PN-EN ISO 868:2005	≥75
Softening point Vicat method	°C	PN-EN ISO 306:2004	≥77
Tensile strength	MPa	PN-EN ISO 527-2:1998	≥44
Tensile modulus of elasticity	MPa	PN-EN ISO 527-2:1998	≥2600
Bending modulus of elasticity	MPa	PN-EN ISO 178:2006	≥2600
Bending strength:	MPa	PN-EN ISO 178:2006	≥65
Resistance of climatic ageing , after energy 2,6 GJ/m ² radiation: • resistance of changing dye • change of Charpy impact	%	PN-EN 513:2002 PN-EN ISO 4892-2 met.A PN-EN 20105-A03:1996 PN-EN ISO 179-1:2004	not less than 4 in gray scale ≤30



Technical specification

Vinyl sheet pile GW 537/5,5



	Unit	Value
Section width	mm	608
Section depth	mm	88
Thickness	mm	5,5
Section modulus	cm ³ /m	86,6
Moment of inertia	cm ⁴ /m	382
Allowable moment*	kNm/m	1,9
Ultimate moment	kNm/m	3,8

* Safety factor = 2

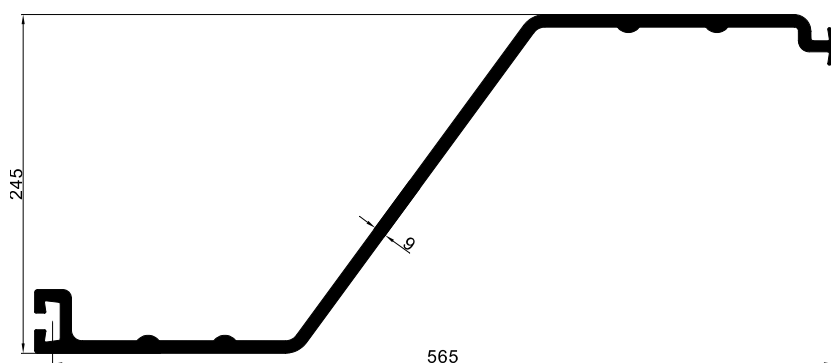
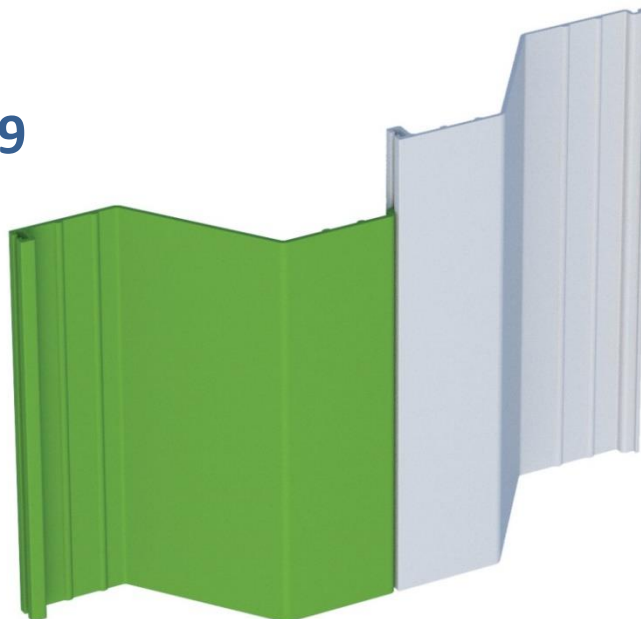


	Unit	Norm	Value
Density	kg/m ³	PN-EN ISO 1183-3:2003	1400-1480
Charpy impact test	kJ/m ²	PN-EN ISO 179-1:2004	≥30
Shore durometer	Shore'a D	PN-EN ISO 868:2005	≥75
Softening point Vicat method	°C	PN-EN ISO 306:2004	≥77
Tensile strength	MPa	PN-EN ISO 527-2:1998	≥44
Tensile modulus of elasticity	MPa	PN-EN ISO 527-2:1998	≥2600
Bending modulus of elasticity	MPa	PN-EN ISO 178:2006	≥2600
Bending strength:	MPa	PN-EN ISO 178:2006	≥65
Resistance of climatic ageing , after energy 2,6 GJ/m ² radiation: • resistance of changing dye • change of Charpy impact	%	PN-EN 513:2002 PN-EN ISO 4892-2 met.A PN-EN 20105-A03:1996 PN-EN ISO 179-1:2004	not less than 4 in gray scale ≤30



Technical specification

Vinyl sheet pile GW 565/9



	Unit	Value
Section width	mm	565
Section depth	mm	245
Thickness	mm	9
Section modulus	cm ³ /m	1042
Moment of inertia	cm ⁴ /m	12768
Allowable moment*	kNm/m	22,9
Ultimate moment	kNm/m	45,8

* Safety factor = 2

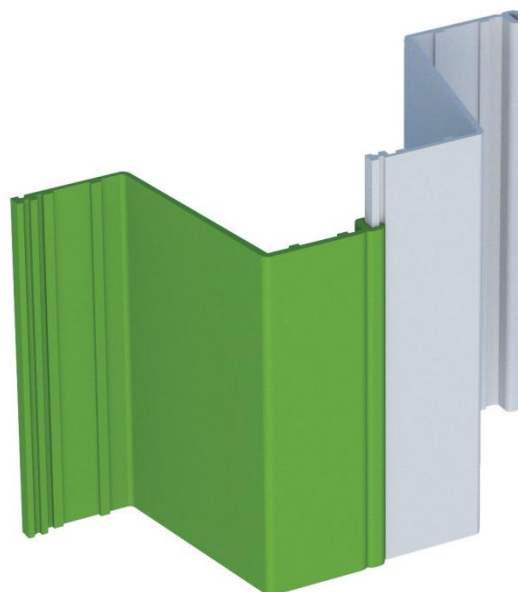
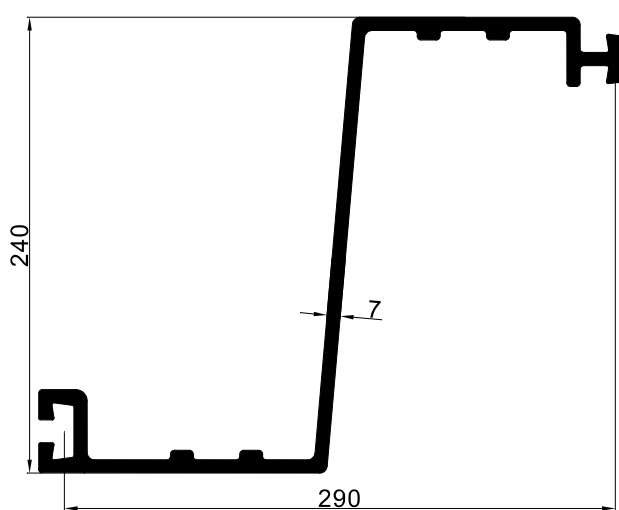


	Unit	Norm	Value
Density	kg/m ³	PN-EN ISO 1183-3:2003	1400-1480
Charpy impact test	kJ/m ²	PN-EN ISO 179-1:2004	≥30
Shore durometer	Shore'a D	PN-EN ISO 868:2005	≥75
Softening point Vicat method	°C	PN-EN ISO 306:2004	≥77
Tensile strength	MPa	PN-EN ISO 527-2:1998	≥44
Tensile modulus of elasticity	MPa	PN-EN ISO 527-2:1998	≥2600
Bending modulus of elasticity	MPa	PN-EN ISO 178:2006	≥2600
Bending strength:	MPa	PN-EN ISO 178:2006	≥65
Resistance of climatic ageing , after energy 2,6 GJ/m ² radiation: • resistance of changing dye • change of Charpy impact	%	PN-EN 513:2002 PN-EN ISO 4892-2 met.A PN-EN 20105-A03:1996 PN-EN ISO 179-1:2004	not less than 4 in gray scale ≤30



Technical specification

Vinyl sheet pile GW-580/7



	Unit	Value
Section width	mm	290
Section depth	mm	240
Thickness	mm	7
Section modulus	cm ³ /m	1228,3
Moment of inertia	cm ⁴ /m	15429
Allowable moment*	kNm/m	27,0
Ultimate moment	kNm/m	54,0

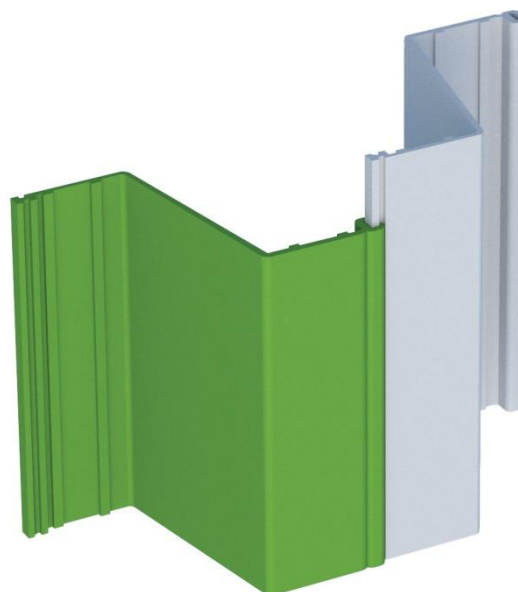
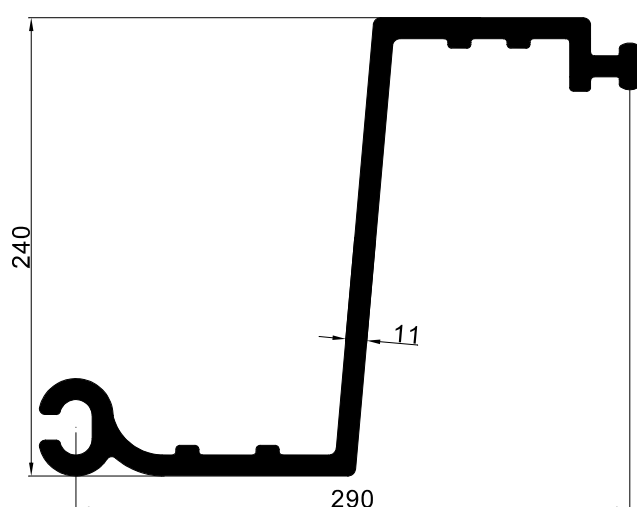
* Safety factor = 2



	Unit	Norm	Value
Density	kg/m ³	PN-EN ISO 1183-3:2003	1400-1480
Charpy impact test	kJ/m ²	PN-EN ISO 179-1:2004	≥30
Shore durometer	Shore'a D	PN-EN ISO 868:2005	≥75
Softening point Vicat method	°C	PN-EN ISO 306:2004	≥82
Tensile strength	MPa	PN-EN ISO 527-2:1998	≥44
Tensile modulus of elasticity	MPa	PN-EN ISO 527-2:1998	≥2600
Bending modulus of elasticity	MPa	PN-EN ISO 178:2006	≥2600
Bending strength: • before thermal ageing • after thermal ageing (20 h, 100 °C)	MPa	PN-EN ISO 178:2006	≥71 ≥70
Resistance of climatic ageing , after energy 2,6 GJ/m ² radiation: • resistance of changing dye • change of Charpy impact	%	PN-EN 513:2002 PN-EN ISO 4892-2 met.A PN-EN 20105-A03:1996 PN-EN ISO 179-1:2004	not less than 4 in gray scale ≤30

Technical specification

Vinyl sheet pile GW-580/11



	Unit	Value
Section width	mm	290
Section depth	mm	240
Thickness	mm	11
Section modulus	cm ³ /m	1711
Moment of inertia	cm ⁴ /m	21851
Allowable moment*	kNm/m	37,6
Ultimate moment	kNm/m	75,3

* Safety factor = 2

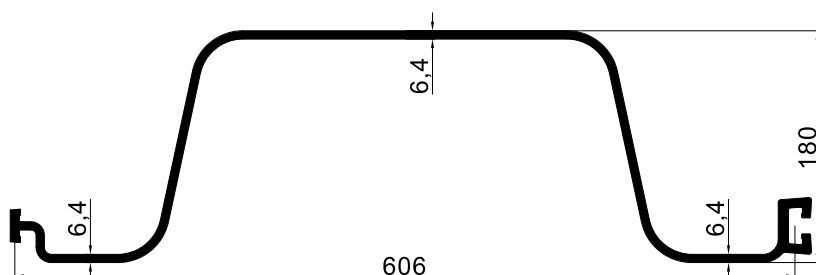
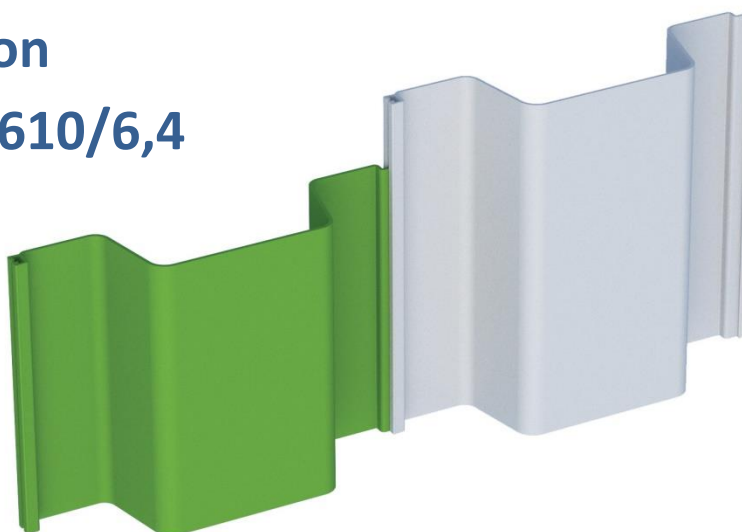


	Unit	Norm	Value
Density	kg/m ³	PN-EN ISO 1183-3:2003	1400-1480
Charpy impact test	kJ/m ²	PN-EN ISO 179-1:2004	≥30
Shore durometer	Shore'a D	PN-EN ISO 868:2005	≥75
Softening point Vicat method	°C	PN-EN ISO 306:2004	≥77
Tensile strength	MPa	PN-EN ISO 527-2:1998	≥44
Tensile modulus of elasticity	MPa	PN-EN ISO 527-2:1998	≥2600
Bending modulus of elasticity	MPa	PN-EN ISO 178:2006	≥2600
Bending strength:	MPa	PN-EN ISO 178:2006	≥65
Resistance of climatic ageing , after energy 2,6 GJ/m ² radiation: • resistance of changing dye • change of Charpy impact	%	PN-EN 513:2002 PN-EN ISO 4892-2 met.A PN-EN 20105-A03:1996 PN-EN ISO 179-1:2004	not less than 4 in gray scale ≤30



Technical specification

Vinyl sheet pile GW-610/6,4



	Unit	Value
Section width	mm	606
Section depth	mm	180
Thickness	mm	6,4
Section modulus	cm ³ /m	589,7
Moment of inertia	cm ⁴ /m	5325
Allowable moment*	kNm/m	13
Ultimate moment	kNm/m	25,9

* Safety factor = 2

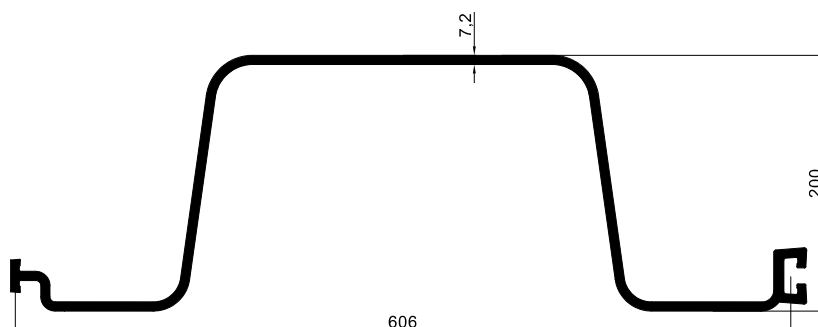
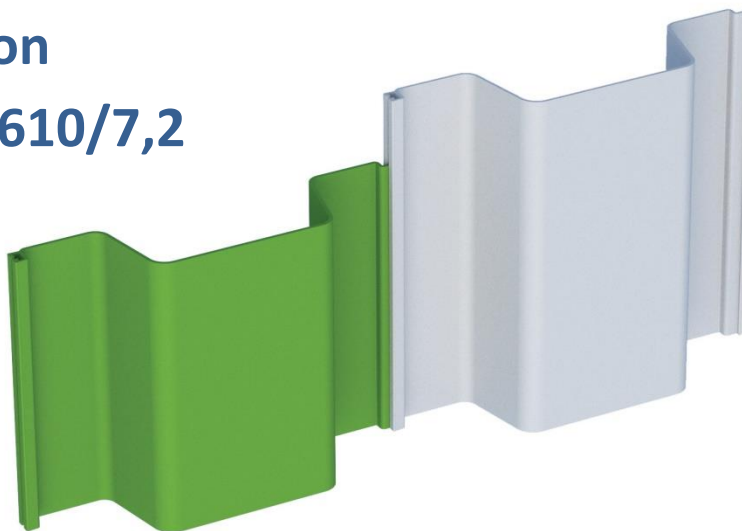


	Unit	Norm	Value
Density	kg/m ³	PN-EN ISO 1183-3:2003	1400-1480
Charpy impact test	kJ/m ²	PN-EN ISO 179-1:2004	≥30
Shore durometer	Shore'a D	PN-EN ISO 868:2005	≥75
Softening point Vicat method	°C	PN-EN ISO 306:2004	≥77
Tensile strength	MPa	PN-EN ISO 527-2:1998	≥44
Tensile modulus of elasticity	MPa	PN-EN ISO 527-2:1998	≥2600
Bending modulus of elasticity	MPa	PN-EN ISO 178:2006	≥2600
Bending strength:	MPa	PN-EN ISO 178:2006	≥65
Resistance of climatic ageing , after energy 2,6 GJ/m ² radiation: • resistance of changing dye • change of Charpy impact	%	PN-EN 513:2002 PN-EN ISO 4892-2 met.A PN-EN 20105-A03:1996 PN-EN ISO 179-1:2004	not less than 4 in gray scale ≤30



Technical specification

Vinyl sheet pile GW-610/7,2



	Unit	Value
Section width	mm	606
Section depth	mm	200
Thickness	mm	7,2
Section modulus	cm ³ /m	728,7
Moment of inertia	cm ⁴ /m	7724
Allowable moment*	kNm/m	16,0
Ultimate moment	kNm/m	32,1

* Safety factor = 2

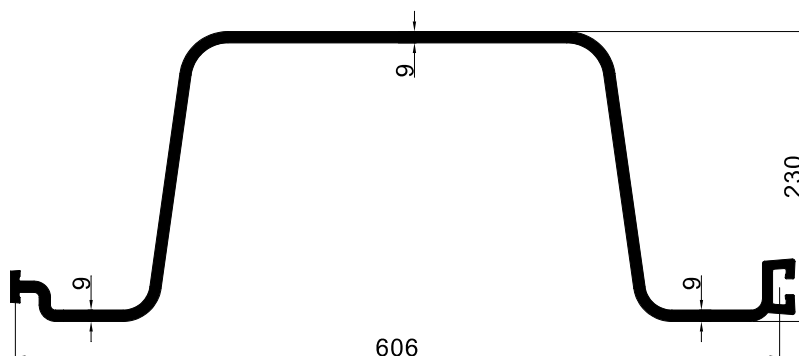
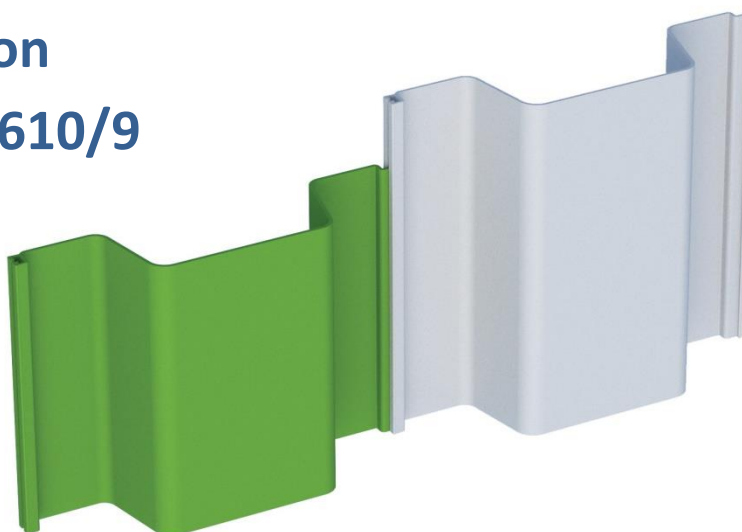


	Unit	Norm	Value
Density	kg/m ³	PN-EN ISO 1183-3:2003	1400-1480
Charpy impact test	kJ/m ²	PN-EN ISO 179-1:2004	≥30
Shore durometer	Shore'a D	PN-EN ISO 868:2005	≥75
Softening point Vicat method	°C	PN-EN ISO 306:2004	≥77
Tensile strength	MPa	PN-EN ISO 527-2:1998	≥44
Tensile modulus of elasticity	MPa	PN-EN ISO 527-2:1998	≥2600
Bending modulus of elasticity	MPa	PN-EN ISO 178:2006	≥2600
Bending strength:	MPa	PN-EN ISO 178:2006	≥65
Resistance of climatic ageing , after energy 2,6 GJ/m ² radiation: • resistance of changing dye • change of Charpy impact	%	PN-EN 513:2002 PN-EN ISO 4892-2 met.A PN-EN 20105-A03:1996 PN-EN ISO 179-1:2004	not less than 4 in gray scale ≤30



Technical specification

Vinyl sheet pile GW-610/9



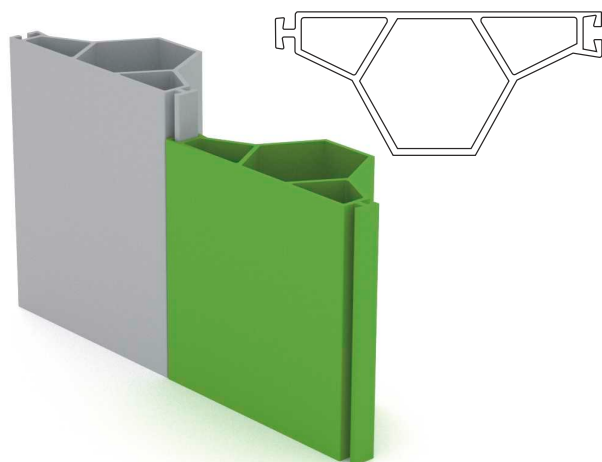
	Unit	Value
Section width	mm	606
Section depth	mm	230
Thickness	mm	9
Section modulus	cm ³ /m	1076,8
Moment of inertia	cm ⁴ /m	12766
Allowable moment*	kNm/m	23,7
Ultimate moment	kNm/m	47,4

* Safety factor = 2



	Unit	Norm	Value
Density	kg/m ³	PN-EN ISO 1183-3:2003	1400-1480
Charpy impact test	kJ/m ²	PN-EN ISO 179-1:2004	≥30
Shore durometer	Shore'a D	PN-EN ISO 868:2005	≥75
Softening point Vicat method	°C	PN-EN ISO 306:2004	≥77
Tensile strength	MPa	PN-EN ISO 527-2:1998	≥44
Tensile modulus of elasticity	MPa	PN-EN ISO 527-2:1998	≥2600
Bending modulus of elasticity	MPa	PN-EN ISO 178:2006	≥2600
Bending strength:	MPa	PN-EN ISO 178:2006	≥65
Resistance of climatic ageing , after energy 2,6 GJ/m ² radiation: • resistance of changing dye • change of Charpy impact	%	PN-EN 513:2002 PN-EN ISO 4892-2 met.A PN-EN 20105-A03:1996 PN-EN ISO 179-1:2004	not less than 4 in gray scale ≤30

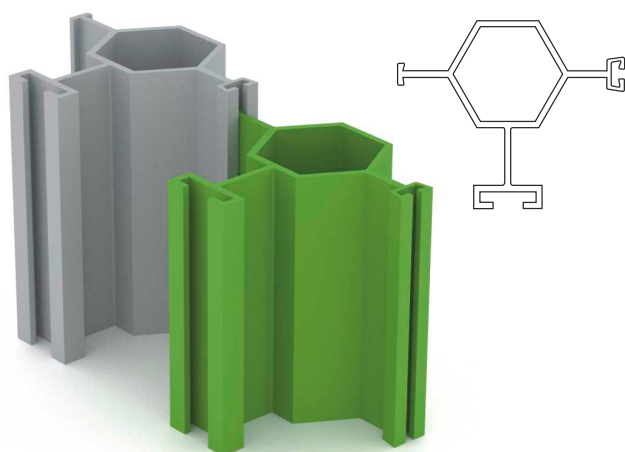
Una soluzione ecologica ed economica che non richiede manutenzione, realizzata per resistere nel tempo.



D-HEX

	unit	value
	kN-m/m	6,34
Modulo di resistenza	cm ³ /m	288,0
Momento di Inerzia (I)	cm ⁴ /m	2 268,0
Resistenza all'impatto	N-mm/mm ²	3 360,0
Spessore	mm	5,0
Profondità Sezione	mm	120,0
Larghezza Sezione	mm	250,0
Resistenza materiale	MPa	44,05

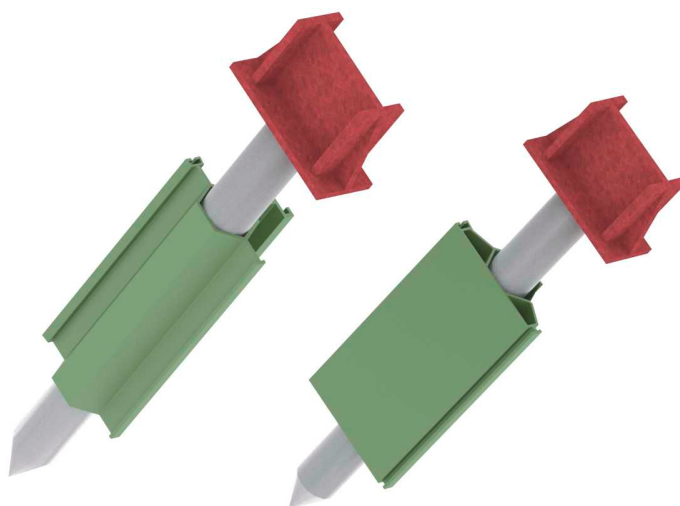
Tolleranze in accordo agli standard DIN 16 941



T-HEX

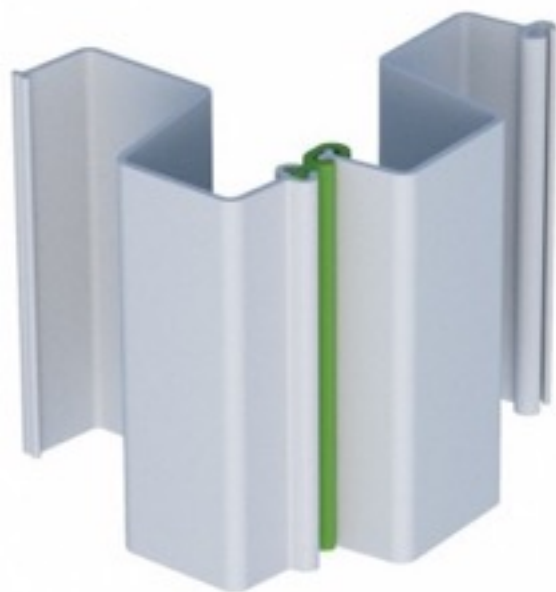
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	kN-m/m	18,85
Modulo di resistenza	cm ³ /m	856,0
Momento di Inerzia (I)	cm ⁴ /m	10 540,0
Resistenza all'impatto	N-mm/mm ²	3 360,0
Spessore	mm	7,0
Profondità Sezione	mm	250,0
Larghezza Sezione	mm	250,0
Resistenza Materiale	MPa	44,05

Tolleranze in accordo agli standard DIN 16 941

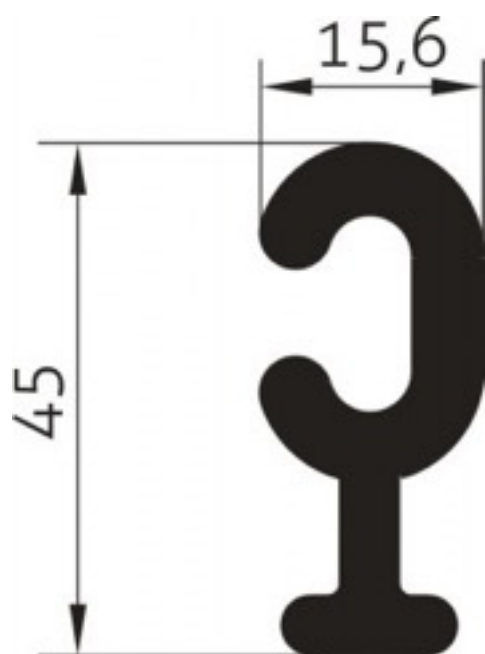


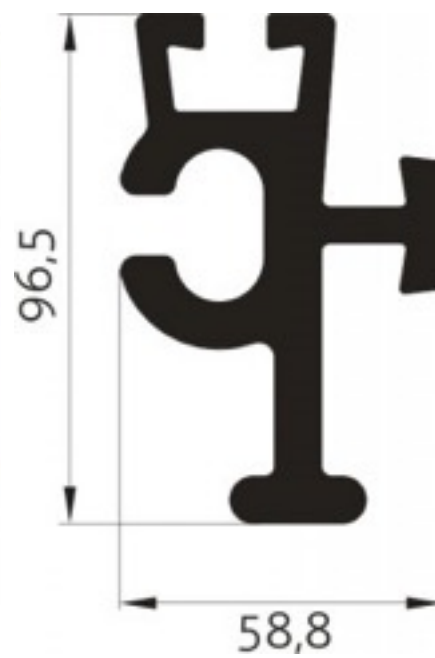
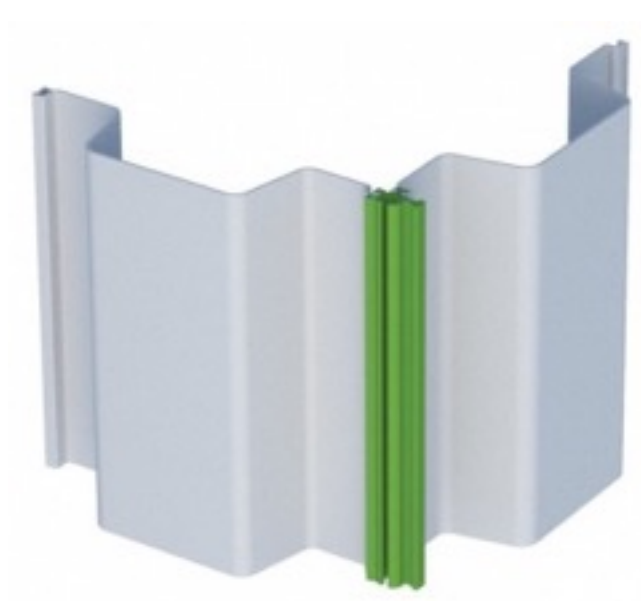
I nuovi profili di questi ultimi due modelli di palanca rendono l'infissione semplice e veloce.

La possibilità di utilizzare barre interne permette un'agevole infissione a notevoli profondità anche in terreni difficili. Per l'infissione si utilizzano attrezzature standard e vibro-infissori.



Corner 300

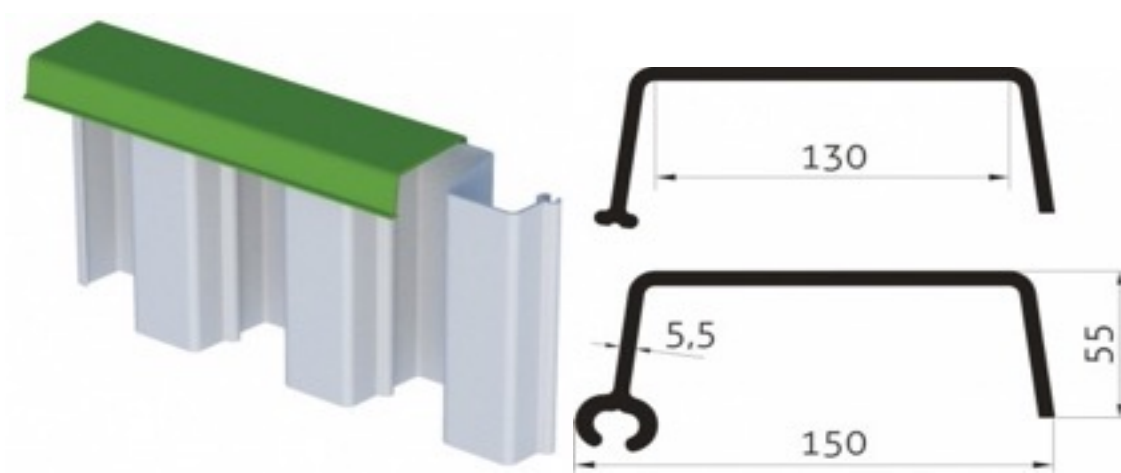
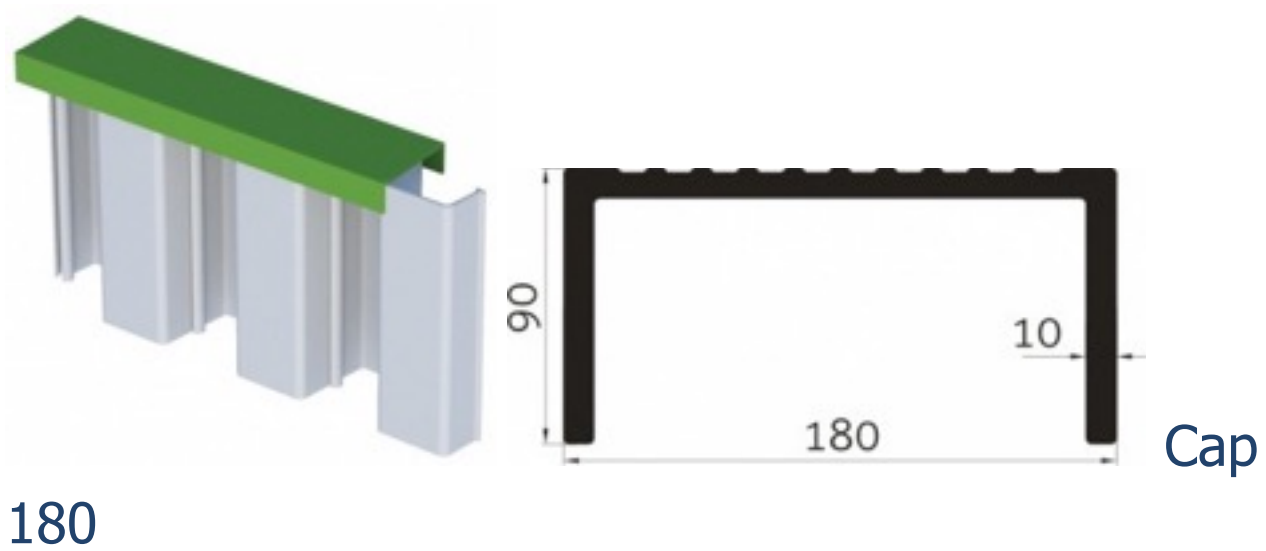




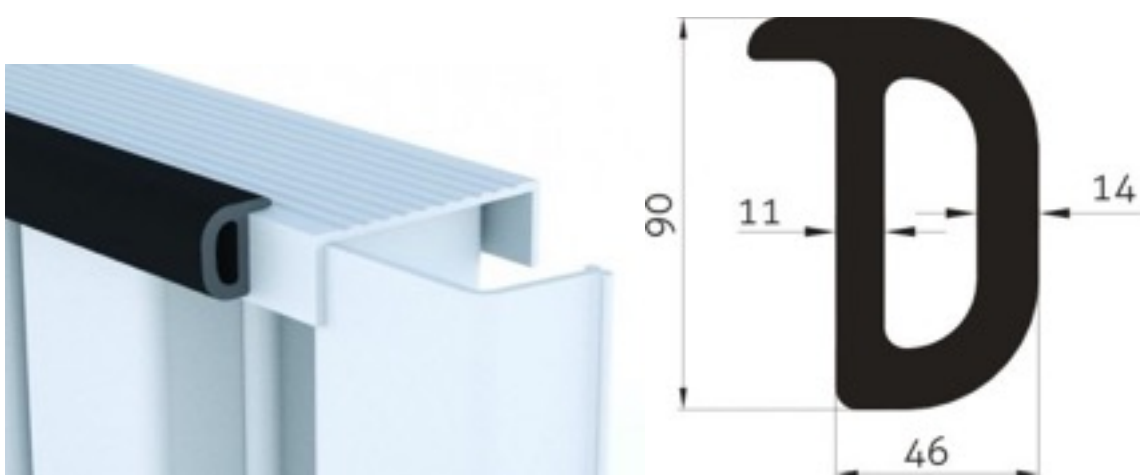
Corner 610/580



Cap 290



Cap 150



Bumper



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VIA DON RODRIGO 8 - 23868 VALMADRERA (LC) P.I. 03573010133 REA LC 320525

TEL. 1840337-MOB. 335-1980354 IWP@HOTMAIL.IT IWP@PIC.IT WWW.IRONPLASTICWOOD.COM