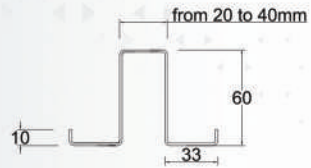


Omega +



Omega +

	43.7x41x33x10x1.5	40x60x33x10x1.5	
Moment Capacity M_c (KN.m)	1.016	1.734	41%
Distributed Load w (KN/m)	8.130	13.870	41%
Moment of Inertia I_{xeff} (mm ⁴)	65493.81	171564.90	62%



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ALEXFORM
ALEXANDRIA STEEL FORMING COMPANY

65
ALEXFORM

AlexForm New Sections

- **Main Office:** Behind 30 - Patrice Lumumba St.El-Obour Building
2nd Floor- Alexandria.
Tel/Fax: (+203)39 25 798 / (+203) 39 25 768
: (+203)39 28 874 / (+203) 39 25 269
- **Cairo Office:** 28 Gamal Salem st. from mosaddk El-Dokki,Giza.
Tel: (+2) 0233355421 / (+2) 0233355429
- **Factory:** K21 Behind Merghem Warehouse Store, Alexandria
Cairo Desert Road
Tel/Fax: (+203) 3420159 / (+203) 3420160

- CEE Section with notches.
- Z Section with notches.
- CEE Section with lip.
- Omega +

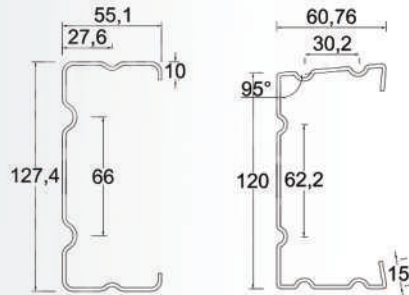


Our innovative steel profiles are designed for superior weight economy, making them lighter while maintaining exceptional structural strength. Our profiles are optimized for efficient load distribution, ensuring uniform stress across the structure. This results in reduced localized wear and tear, prolonging the lifespan of the components and overall structure. The increased moment of inertia in our steel profiles enhances their resistance to deflection and deformation. This means they maintain their shape and structural integrity even under heavy loads or adverse conditions, ensuring long-term reliability.

By offering superior performance in weight economy, moment capacity, distributed load efficiency, and moment of inertia, our steel profiles contribute to cost savings in terms of material usage, maintenance, and operational efficiency.

These competitive advantages position our new steel profiles as a top choice for projects that demand high-performance structural solutions, setting us apart in the market as a reliable and innovative provider of steel profiles with exceptional capabilities.

CEE with Notches

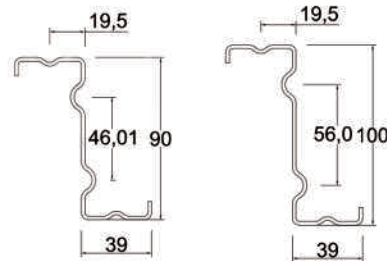


C 127.4 x55.1x10x2			
	without notches	with notches	
Moment Capacity Mc (KN.m)	5.995	6.923	13%
Distributed Load w (KN/m)	47.961	55.38	13%
Moment of Inertia I _{xeff} (mm ⁴)	1136622.52	1136622.52	10%

C 127.4 x55.1x10x1.5			
	without notches	with notches	
Moment Capacity Mc (KN.m)	3.916	5.285	26%
Distributed Load w (KN/m)	31.326	42.28	26%
Moment of Inertia I _{xeff} (mm ⁴)	726612.53	961859.47	24%

C 127.4 x55.1x10x1.2			
	without notches	with notches	
Moment Capacity Mc (KN.m)	2.646	4.170	37%
Distributed Load w (KN/m)	21.167	33.357	37%
Moment of Inertia I _{xeff} (mm ⁴)	390476.18	766645.43	49%

Z with Notches



Z 100x39x10x2			
	without notches	with notches	
Moment Capacity Mc (KN.m)	3.773	4.198	10%
Distributed Load w (KN/m)	30.181	33.586	10%
Moment of Inertia I _{xeff} (mm ⁴)	538952.00	599749.85	10%

Z 100x39x10x1.5			
	without notches	with notches	
Moment Capacity Mc (KN.m)	2.804	3.217	13%
Distributed Load w (KN/m)	22.433	25.736	13%
Moment of Inertia I _{xeff} (mm ⁴)	406451.00	459568.00	12%

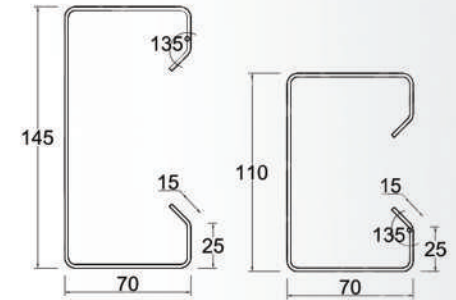
Z 100x39x10x1.2			
	without notches	with notches	
Moment Capacity Mc (KN.m)	2.175	2.607	17%
Distributed Load w (KN/m)	17.397	20.856	17%
Moment of Inertia I _{xeff} (mm ⁴)	320749.00	372422.95	14%

Z 90x39x10x2			
	without notches	with notches	
Moment Capacity Mc (KN.m)	3.267	3.610	10%
Distributed Load w (KN/m)	26.139	28.882	9%
Moment of Inertia I _{xeff} (mm ⁴)	420095.77	464169.07	9%

Z 90x39x10x1.5			
	without notches	with notches	
Moment Capacity Mc (KN.m)	2.431	2.700	10%
Distributed Load w (KN/m)	19.450	22.156	12%
Moment of Inertia I _{xeff} (mm ⁴)	317311.03	356085.15	11%

Z 90x39x10x1.2			
	without notches	with notches	
Moment Capacity Mc (KN.m)	1.884	2.246	16%
Distributed Load w (KN/m)	15.068	17.968	16%
Moment of Inertia I _{xeff} (mm ⁴)	250398.90	288765.30	13%

CEE with Lip



C 145x70x25x15x3			
	Lip	Lip +	
Moment Capacity Mc (KN.m)	14.953	15.728	5%
Distributed Load w (KN/m)	119.62	125.828	5%
Moment of Inertia I _{xeff} (mm ⁴)	3097312.00	3247343.62	5%

C 145x70x25x15x2			
	Lip	Lip +	
Moment Capacity Mc (KN.m)	9.924	10.310	4%
Distributed Load w (KN/m)	79.392	82.476	4%
Moment of Inertia I _{xeff} (mm ⁴)	2086547.67	2167652.39	4%

C 145x70x25x15x1.5			
	Lip	Lip +	
Moment Capacity Mc (KN.m)	6.286	6.644	5%
Distributed Load w (KN/m)	50.291	53.153	5%
Moment of Inertia I _{xeff} (mm ⁴)	1155388.75	1314597.63	12%

C 110x70x25x15x2			
	Lip	Lip +	
Moment Capacity Mc (KN.m)	6.898	7.046	2%
Distributed Load w (KN/m)	55.18	56.365	2%
Moment of Inertia I _{xeff} (mm ⁴)	1100959.97	1124486.00	2%

C 110x70x25x15x1.5			
	Lip	Lip +	
Moment Capacity Mc (KN.m)	4.867	5.074	4%
Distributed Load w (KN/m)	38.938	40.591	4%
Moment of Inertia I _{xeff} (mm ⁴)	800609.40	827904.02	3%

C 110x70x25x15x1.2			
	Lip	Lip +	
Moment Capacity Mc (KN.m)	3.300	3.569	8%
Distributed Load w (KN/m)	26.459	28.551	7%
Moment of Inertia I _{xeff} (mm ⁴)	498661.00	565914.89	12%