



GL LOCATELLI
Sistemi di Ancoraggio

unigi system UNTO

Fissaggio impianti
Metal framing



GL Locatelli da 40 anni progetta e produce sistemi di ancoraggio in acciaio per l'edilizia e l'impiantistica. E' affermata negli ancoraggi su struttura in calcestruzzo, ancoraggi per la prefabbricazione industrializzata, ancoraggi per facciate ventilate in acciaio, inox e alluminio. La gamma Unigiunto raccoglie la linea completa di profili, piastre e accessori per la rapida installazione in cantiere di impianti idraulici, riscaldamento, condizionamento, elettrici, segnaletica, controsoffitti ecc..

GL Locatelli since 40 year designs and produces anchoring steel system for construction and plant engineering. GL Locatelli has established itself in the anchors of concrete structure, anchors for prefabricated building and anchors for ventilated facades (steel, stainless steel and aluminium). Unigiunto production collects a complete line of profiles, plates and accessories for fastening in site installation, plumbing systems, heating systems, cooling systems, electrical systems, signage, countertops and so on.

Unigiunto system

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Tutti i prodotti della gamma Unigiunto sono CE in quanto prodotti da azienda certificata EN1090 dal maggio 2013

Ai fini di migliorare la qualità e le prestazioni dei prodotti GL Locatelli, ci riserviamo la facoltà di apportare modifiche senza alcun preavviso.



All Unigiunto products are CE warranted as products EN1090 certified company since May 2013

In the interests of improving the quality and performance of GL Locatelli products, we reserve the right to make specification changes without prior notice.

K1

K1D

K1 2 mm

K2

K2D

K2 2mm

K62

K62 3mm

K82

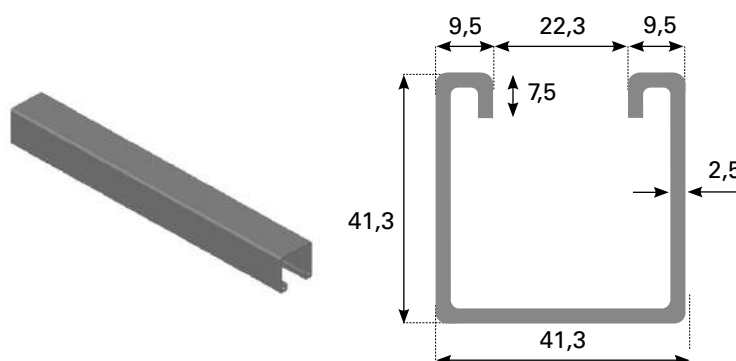
K30

K32

K1Z

GPK2

GL1



Profilo K1 **anchor channel**
mm 41x41x2,5
Kg/ml. 2,69
ml.3 - ml.6

Area della sezione	Momento d'inerzia		Modulo di sezione minimo		Mom. Max. ammissibile		Assi	
Section area	Moment of inertia		Section modulus		Max admissible mom.		Axes	
A	Jx	Jy	Wx	Wy	Mx	My	Xg	Yg
mm ²	mm ⁴	mm ⁴	mm ³	mm ³	kN mm	kN mm	mm	mm
343	75.293	94.755	3.281	4.589	525	734,20	20,65	22,95



mm	kN	mm	kN	mm
500	8,40	0,86	4,20	0,69
1000	4,20	3,46	2,10	2,77
1500	2,80	7,78	1,40	6,23
2000	2,10	13,83	1,05	11,07
2500	1,68	21,62	0,84	17,29
3000	1,40	31,13	0,70	24,90

Codice MI. 3 Materiale
GZSK103 Acciaio S250GD -zinc.sendzimir EN 10346
GZK1203 Acciaio S235JR -zinc.a caldo EN ISO 1461
GDK103 Acciaio S235 JR nero

Code MI. 3 Material
GZSK103 S250GD steel sendzimir galv. EN 10346
GZK1203 S235JR steel - hot dip galv.EN ISO 1461
GDK103 S235JR black steel

K1 asolato - slotted



Profilo K1 **anchor channel**
mm 41x41x2,5
asole / slot mm 13x30
passo / pitch mm 50
Kg/ml. 2,55
ml.3 - ml.6

Area della sezione	Momento d'inerzia		Modulo di sezione minimo		Mom. Max. ammissibile		Assi	
Section area	Moment of inertia		Section modulus		Max admissible mom.		Axes	
A	Jx	Jy	Wx	Wy	Mx	My	Xg	Yg
mm ²	mm ⁴	mm ⁴	mm ³	mm ³	kN mm	kN mm	mm	mm
310	64.773	94.297	3.062	4.566	489,9	730,60	20,65	21,15



mm	kN	mm	kN	mm
500	7,84	0,94	3,92	0,75
1000	3,92	3,75	1,96	3,00
1500	2,61	8,44	1,31	6,75
2000	1,96	15,01	0,98	12,01
2500	1,57	23,45	0,78	18,76
3000	1,31	33,77	0,65	27,01

Codice MI. 3 Materiale
GZSK103B Acciaio S250GD -zinc.sendzimir EN 10346
GZK1203A Acciaio S235JR -zinc.a caldo EN ISO 1461
GDK103-AB Acciaio S235 JR nero

Code MI. 3 Material
GZSK103B S250GD steel sendzimir galv. EN 10346
GZK1203A S235JR steel - hot dip galv.EN ISO 1461
GDK103-AB S235JR black steel

K1

K1D

K1 2 mm

K2

K2D

K2 2mm

K62

K62 3mm

K82

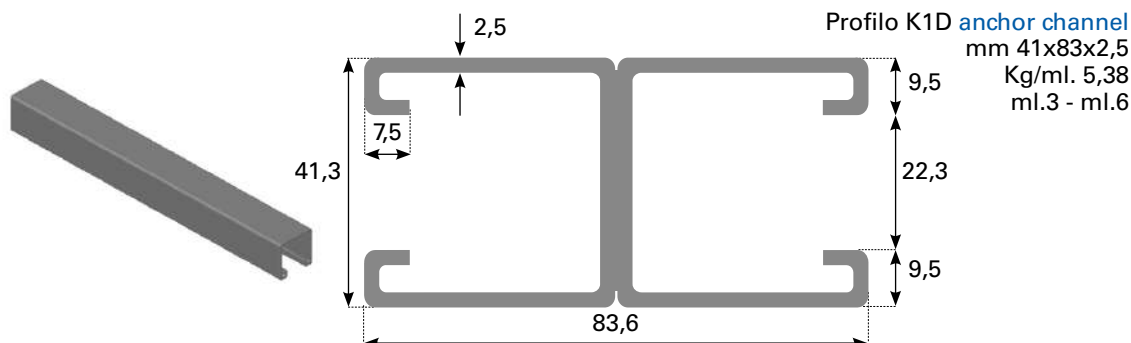
K30

K32

K1Z

GPK2

GL1



Area della sezione	Momento d'inerzia		Modulo di sezione minimo		Mom. Max. ammissibile		Assi	
Section area	Moment of inertia		Section modulus		Max admissible mom.		Axes	
A	Jx	Jy	Wx	Wy	Mx	My	Xg	Yg
mm ²	mm ⁴	mm ⁴	mm ³	mm ³	kN mm	kN mm	mm	mm
686	381.514	189.510	9.238	9.177	1.478,10	1.468,30	20,65	41,30



mm	kN	mm	kN	mm
500	23,65	0,48	11,82	0,38
1000	11,82	1,92	5,91	1,54
1500	7,88	4,32	3,94	3,46
2000	5,91	7,69	2,96	6,15
2500	4,73	12,01	2,36	9,61
3000	3,94	17,30	1,97	13,84

Codice MI. 3
GZEK1D03 Acciaio S250GD -zinc.elett. EN ISO 2081
GZK1D03 Acciaio S235JR -zinc.a caldo EN ISO 1461
GDK103 Acciaio S235 JR nero
GIK1D03 Inox AISI 304

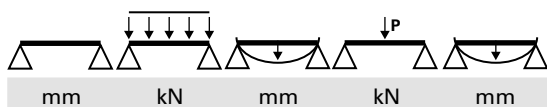
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GZK1D03 S235JR steel - hot dip galv. EN ISO 1461
GDK103 S235JR black steel
GIK1D03 A2 Stainless steel

K1D asolato - slotted



Profilo K1D anchor channel
mm 41x83x2,5
asole / slot mm 13x30
passo / pitch mm 50
Kg/ml. 5,28 ml.3 - ml.6

Area della sezione	Momento d'inerzia		Modulo di sezione minimo		Mom. Max. ammissibile		Assi	
Section area	Moment of inertia		Section modulus		Max admissible mom.		Axes	
A	Jx	Jy	Wx	Wy	Mx	My	Xg	Yg
mm ²	mm ⁴	mm ⁴	mm ³	mm ³	kN mm	kN mm	mm	mm
621	381.379	188.594	9.234	9.133	1.477,40	1.461,30	20,65	41,30



mm	kN	mm	kN	mm
500	23,64	0,48	11,82	0,38
1000	11,82	1,92	5,91	1,54
1500	7,88	4,32	3,94	3,46
2000	5,91	7,69	2,95	6,15
2500	4,73	12,01	2,36	9,61
3000	3,94	17,30	1,97	13,84

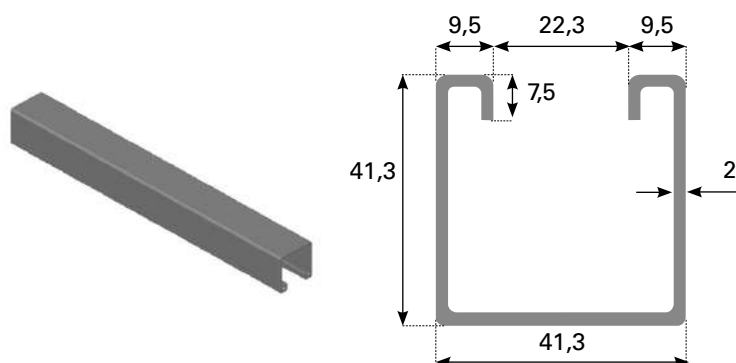
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GZEK1D03A Acciaio S250GD -zinc.elett. EN ISO 2081
GZK1D03A Acciaio S235JR -zinc.a caldo EN ISO 1461
GNK1D03A Acciaio S235 JR nero
GIK1D03A Inox AISI 304

Code MI. 3
GZEK1D03A S250GD steel - electr. galv. EN ISO 2081
GZK1D03A S235JR steel - hot dip galv. EN ISO 1461
GNK1D03A S235JR black steel
GIK1D03A A2 Stainless steel

K1
K1D
K1 2 mm

K2
K2D
K2 2mm
K62
K62 3mm
K82
K30
K32

K1Z
GPK2
GL1



Profilo K1 2mm **anchor channel**
mm 41x41x2
Kg/ml. 2,19
ml.3 - ml.6

Area della sezione	Momento d'inerzia		Modulo di sezione minimo		Mom. Max. ammissibile		Assi	
Section area	Moment of inertia		Section modulus		Max admissible mom.		Axes	
A	Jx	Jy	Wx	Wy	Mx	My	Xg	Yg
mm ²	mm ⁴	mm ⁴	mm ³	mm ³	kN mm	kN mm	mm	mm
279	62.912	78.465	2.753	3.800	440,50	608	20,65	22,85



mm	kN	mm	kN	mm
500	7,05	0,87	3,52	0,69
1000	3,52	3,47	1,76	2,78
1500	2,35	7,82	1,17	6,25
2000	1,76	13,89	0,88	11,12
2500	1,41	21,71	0,70	17,37
3000	1,17	31,26	0,59	25,01

Codice MI. 3
GZSK103-M2
GZK1203-MM2
GNK103-MM2
GIK103

Materiale
Acciaio S250GD -zinc.sendzimir EN 10346
Acciaio S235JR -zinc.a caldo EN ISO 1461
Acciaio S235 JR nero
Inox AISI 304

Code MI. 3
GZSK103-M2
GZK1203-MM2
GNK103-MM2
GIK103

Material
S250GD steel sendzimir galv. EN 10346
S235JR steel - hot dip galv.EN ISO 1461
S235JR black steel
A2 Stainless steel

K1 2mm asolato - **slotted** CE

Profilo K1 2mm **anchor channel**
mm 41x41x2
asole / **slot** mm 13x30
passo / **pitch** mm 50
Kg/ml. 2,08
ml.3 - ml.6

Area della sezione	Momento d'inerzia		Modulo di sezione minimo		Mom. Max. ammissibile		Assi	
Section area	Moment of inertia		Section modulus		Max admissible mom.		Axes	
A	Jx	Jy	Wx	Wy	Mx	My	Xg	Yg
mm ²	mm ⁴	mm ⁴	mm ³	mm ³	kN mm	kN mm	mm	mm
253	54.172	78.099	2.573	3.782	411,7	605,1	20,65	21,06



mm	kN	mm	kN	mm
500	6,59	0,94	3,29	0,75
1000	3,29	3,77	1,65	3,02
1500	2,20	8,48	1,10	6,78
2000	1,65	15,08	0,82	12,06
2500	1,32	23,56	0,66	18,85
3000	1,10	33,92	0,55	27,14

Codice MI. 3
GZSK103-MM2
GZK1203A-MM2
GDK103-A
GIK103AB

Materiale
Acciaio S250GD -zinc.sendzimir EN 10346
Acciaio S235JR -zinc.a caldo EN ISO 1461
Acciaio S235 JR nero
Inox AISI 304

Code MI. 3
GZSK103-MM2
GZK1203A-MM2
GDK103-A
GIK103AB

Material
S250GD steel sendzimir galv. EN 10346
S235JR steel - hot dip galv.EN ISO 1461
S235JR black steel
A2 Stainless steel

K1
K1D
K1 2 mm

K2

K2D
K2 2mm

K62
K62 3mm

K82

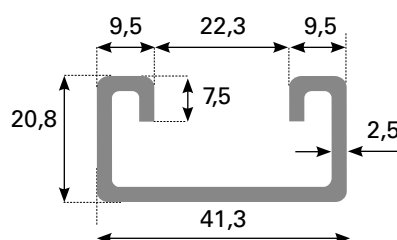
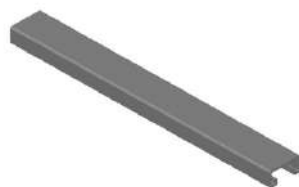
K30

K32

K1Z

GPK2

GL1



Profilo K2 **anchor channel**
mm 41x20x2,5
Kg/ml. 1,97
ml.3 - ml.6

Area della sezione	Momento d'inerzia		Modulo di sezione minimo		Mom. Max. ammissibile		Assi	
Section area	Moment of inertia		Section modulus		Max admissible mom.		Axes	
A	Jx	Jy	Wx	Wy	Mx	My	Xg	Yg
mm ²	mm ⁴	mm ⁴	mm ³	mm ³	kN mm	kN mm	mm	mm
251	13.873	59.081	1.161	2.882	185,8	461,1	20,65	11,95

mm	kN	mm	kN	mm
500	2,97	1,66	1,49	1,33
1000	1,49	6,64	0,74	5,31
1500	0,99	14,94	0,50	11,95
2000	0,74	26,56	0,37	21,25
2500	0,59	41,50	0,30	33,20
3000	0,50	59,76	0,25	47,81

Codice MI. 3 Materiale
GZSK203 Acciaio S250GD -zinc.sendzimir EN 10346
GZK203 Acciaio S235JR -zinc.a caldo EN ISO 1461
GDK203 Acciaio S235 JR nero

Code MI. 3 Material
GZSK203 S250GD steel sendzimir galv. EN 10346
GZK203 S235JR steel - hot dip galv. EN ISO 1461
GDK203 S235JR black steel

K2 asolato - slotted



Profilo K2 **anchor channel**
mm 41x20x2,5 mm
asole / slot mm 13x30
passo / pitch mm 50
Kg/ml. 1,83
ml.3 - ml.6

Area della sezione	Momento d'inerzia		Modulo di sezione minimo		Mom. Max. ammissibile		Assi	
Section area	Moment of inertia		Section modulus		Max admissible mom.		Axes	
A	Jx	Jy	Wx	Wy	Mx	My	Xg	Yg
mm ²	mm ⁴	mm ⁴	mm ³	mm ³	kN mm	kN mm	mm	mm
219	11.701	58.624	1.081	2.860	173	457,6	20,65	11,95

mm	kN	mm	kN	mm
500	2,97	1,66	1,49	1,33
1000	1,49	6,64	0,74	5,31
1500	0,99	14,94	0,50	11,95
2000	0,74	26,56	0,37	21,25
2500	0,59	41,50	0,30	33,20
3000	0,50	59,76	0,25	47,81

Codice MI. 3 Materiale
GZSK203A Acciaio S250GD -zinc.sendzimir EN 10346
GZK203B Acciaio S235JR -zinc.a caldo EN ISO 1461
GDK203A Acciaio S235 JR nero

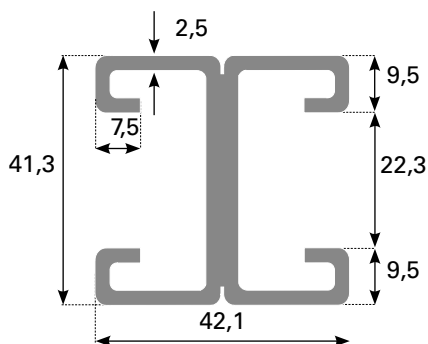
Code MI. 3 Material
GZSK203A S250GD steel sendzimir galv. EN 10346
GZK203B S235JR steel - hot dip galv. EN ISO 1461
GDK203A S235JR black steel

K1
K1D
K1 2 mm
K2

K2D

K2 2mm
K62
K62 3mm
K82
K30
K32

K1Z
GPK2
GL1



Profilo K2D **anchor channel**
mm 41x41x2,5
Kg/ml. 3,94
ml.3 - ml.6

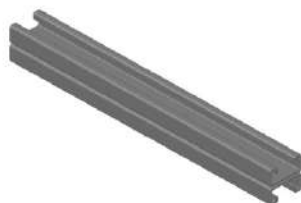
Area della sezione	Momento d'inerzia		Modulo di sezione minimo		Mom. Max. ammissibile		Assi	
Section area	Moment of inertia		Section modulus		Max admissible mom.		Axes	
A	Jx	Jy	Wx	Wy	Mx	My	Xg	Yg
mm ²	mm ⁴	mm ⁴	mm ³	mm ³	kN mm	kN mm	mm	mm
502	67.083	118.163	3.225	5.722	516	915,5	20,65	20,80



mm	kN	mm	kN	mm
500	8,26	0,95	4,13	0,76
1000	4,13	3,82	2,06	3,05
1500	2,75	8,59	1,38	6,87
2000	2,06	15,26	1,03	12,21
2500	1,65	23,85	0,83	19,08
3000	1,38	34,34	0,69	27,47

Codice MI. 3 Materiale
GDEK203 Acciaio S250GD -zinc.elett. EN ISO 2081
GDCK203 Acciaio S235JR -zinc.a caldo EN ISO 1461
GDNK203 Acciaio S235 JR nero

Code MI. 3 Material
GDEK203 S250GD steel - electr. galv. EN ISO 2081
GDCK203 S235JR steel - hot dip galv. EN ISO 1461
GDNK203 S235JR black steel



K2D asolato - slotted

Profilo K2D **anchor channel**
mm 41x41x2,5
asole / slot mm 13x30
passo / pitch mm 50
Kg/ml. 3,66
ml.3 - ml.6

Area della sezione	Momento d'inerzia		Modulo di sezione minimo		Mom. Max. ammissibile		Assi	
Section area	Moment of inertia		Section modulus		Max admissible mom.		Axes	
A	Jx	Jy	Wx	Wy	Mx	My	Xg	Yg
mm ²	mm ⁴	mm ⁴	mm ³	mm ³	kN mm	kN mm	mm	mm
437	66.948	117.247	3.219	5.719	515	915	20,65	20,80



mm	kN	mm	kN	mm
500	8,24	0,95	4,12	0,76
1000	4,12	3,82	2,06	3,05
1500	2,75	8,59	1,37	6,87
2000	2,06	15,26	1,03	12,21
2500	1,65	23,85	0,82	19,08
3000	1,37	34,34	0,69	27,47

Codice MI. 3 Materiale
GZK2D03A Acciaio S250GD -zinc.elett. EN ISO 2081
GCK2D03A Acciaio S235JR -zinc.a caldo EN ISO 1461
GDK2D03A Acciaio S235 JR nero

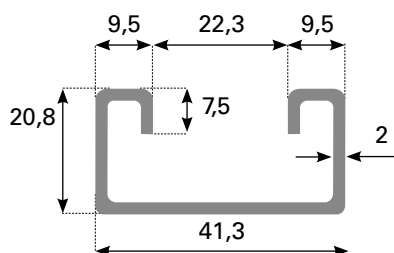
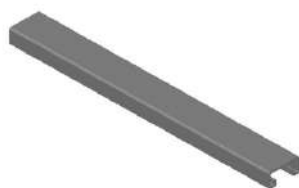
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GCK2D03A S235JR steel - hot dip galv. EN ISO 1461
GDK2D03A S235JR black steel

Profilo K2 2mm anchor channel

mm 41x21x2

Kg/ml. 1,55

ml.3 - ml.6



K1
K1D
K1 2 mm
K2
K2D

K2 2mm

K62
K62 3mm
K82
K30
K32

K1Z
GPK2
GL1

Area della sezione	Momento d'inerzia		Modulo di sezione minimo		Mom. Max. ammissibile		Assi	
Section area	Moment of inertia		Section modulus		Max admissible mom.		Axes	
A	Jx	Jy	Wx	Wy	Mx	My	Xg	Yg
mm ²	mm ⁴	mm ⁴	mm ³	mm ³	kN mm	kN mm	mm	mm
197	11.178	46.776	923	2.265	147,7	362,4	20,65	12,12



mm	kN	mm	kN	mm
500	2,36	1,64	1,18	1,31
1000	1,18	6,55	0,59	5,24
1500	0,79	14,74	0,39	11,79
2000	0,59	26,20	0,30	20,96
2500	0,47	40,94	0,24	32,75
3000	0,39	58,96	0,20	47,17

Codice Ml. 3

Materiale

GZSK203A-MM2 Acciaio S250GD -zinc.sendzimir EN 10346

GZSK203C-MM2 Acciaio S235JR -zinc.a caldo EN ISO 1461

GNK203A-MM2 Acciaio S235 JR nero

GIK203AB

Inox AISI 304

Code Ml. 3

Material

GZSK203A-MM2 S250GD steel sendzimir galv. EN 10346

GZSK203C-MM2 S235JR steel - hot dip galv. EN ISO 1461

GNK203A-MM2 S235JR black steel

GIK203AB

A2 Stainless steel

K2 2mm asolato - slotted CE



Profilo K2 2mm anchor channel

mm 21x41x2

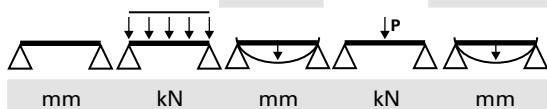
asole / slot mm 13x30

passo / pitch mm 50

Kg/ml. 1,43

ml.3 - ml.6

Area della sezione	Momento d'inerzia		Modulo di sezione minimo		Mom. Max. ammissibile		Assi	
Section area	Moment of inertia		Section modulus		Max admissible mom.		Axes	
A	Jx	Jy	Wx	Wy	Mx	My	Xg	Yg
mm ²	mm ⁴	mm ⁴	mm ³	mm ³	kN mm	kN mm	mm	mm
171	9.400	46.410	859	2.247	137,4	359,5	20,65	10,95



mm	kN	mm	kN	mm
500	2,20	1,81	1,10	1,45
1000	1,10	7,25	0,55	5,80
1500	0,73	16,31	0,37	13,05
2000	0,55	29,00	0,27	23,20
2500	0,44	45,32	0,22	36,25
3000	0,37	65,26	0,18	52,20

Codice Ml. 3

Materiale

GZSK203-MM2 Acciaio S250GD -zinc.sendzimir EN 10346

GZK203B-MM2 Acciaio S235JR -zinc.a caldo EN ISO 1461

GNK203-MM2 Acciaio S235 JR nero

GIK203-AAA

Inox AISI 304

Code Ml. 3

Material

GZSK203-MM2 S250GD steel sendzimir galv. EN 10346

GZK203B-MM2 S235JR steel - hot dip galv. EN ISO 1461

GNK203-MM2 S235JR black steel

GIK203-AAA

A2 Stainless steel

K1
K1D
K1 2 mm
K2
K2D
K2 2mm

K62

K62 3mm

K82

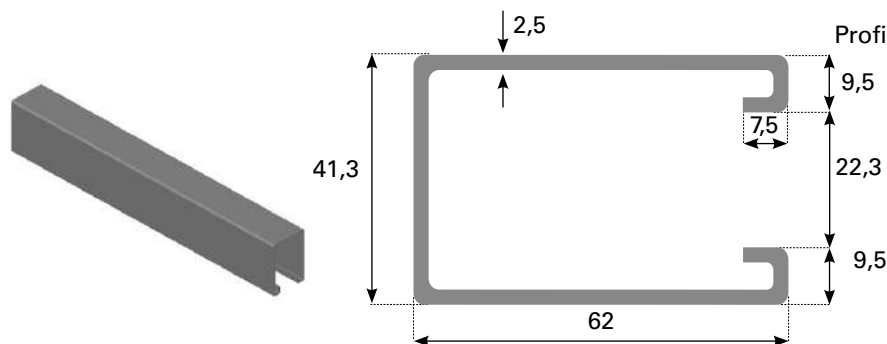
K30

K32

K1Z

GPK2

GL1



Profilo K62 anchor channel
mm 41x62x2,5
Kg/ml. 3,54
ml.3 - ml.6

Area della sezione	Momento d'inerzia		Modulo di sezione minimo		Mom. Max. ammissibile		Assi	
Section area	Moment of inertia		Section modulus		Max admissible mom.		Axes	
A	Jx	Jy	Wx	Wy	Mx	My	Xg	Yg
mm ²	mm ⁴	mm ⁴	mm ³	mm ³	kN mm	kN mm	mm	mm
451	211.407	132.598	6.473	6.468	1.035,70	1.034,90	20,50	28,34

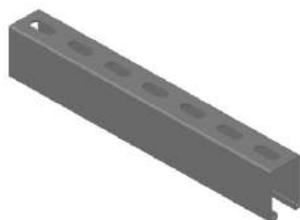


mm	kN	mm	kN	mm
500	16,57	0,61	8,28	0,49
1000	8,28	2,43	4,14	1,94
1500	5,52	5,47	2,76	4,37
2000	4,14	9,72	2,07	7,78
2500	3,31	15,19	1,66	12,15
3000	2,76	21,87	1,38	17,5

Codice MI. 3 Materiale
GZSK6203 Acciaio S235JR -zinc.sendzimir EN 10346
GZK6203 Acciaio S235JR -zinc.a caldo EN ISO 1461
GGNK6203 Acciaio S235 JR nero
GIK6203 Inox AISI 304

Code MI. 3 Material
GZSK6203 S235JR steel - sendzimir galv. EN 10346
GZK6203 S235JR steel - hot dip galv. EN ISO 1461
GGNK6203 S235JR black steel
GIK6203 A2 Stainless steel

K62 asolato - slotted CE



Profilo K62 anchor channel
mm 62x41x2,5
asole / slot mm 13x30
passo / pitch mm 50
Kg/ml. 3,40
ml.3 - ml.6

Area della sezione	Momento d'inerzia		Modulo di sezione minimo		Mom. Max. ammissibile		Assi	
Section area	Moment of inertia		Section modulus		Max admissible mom.		Axes	
A	Jx	Jy	Wx	Wy	Mx	My	Xg	Yg
mm ²	mm ⁴	mm ⁴	mm ³	mm ³	kN mm	kN mm	mm	mm
419	185.694	132.140	6.076	6.446	972,2	1.031,30	20,5	30,44



mm	kN	mm	kN	mm
500	15,55	0,65	7,78	0,52
1000	7,78	2,6	3,89	2,08
1500	5,18	5,84	2,59	4,67
2000	3,89	10,39	1,94	8,31
2500	3,11	16,23	1,56	12,98
3000	2,59	23,37	1,3	18,7

Codice MI. 3 Materiale
GZSK6203-A Acciaio S235JR -zinc.sendzimir EN 10346
GZK6203-A Acciaio S235JR -zinc.a caldo EN ISO 1461
GNK6203-A Acciaio S235 JR nero
GIK6203-A Inox AISI 304

Code MI. 3 Material
GZSK6203-A S235JR steel - sendzimir galv. EN 10346
GZK6203-A S235JR steel - hot dip galv. EN ISO 1461
GNK6203-A S235JR black steel
GIK6203-A A2 Stainless steel

K1
K1D
K1 2 mm
K2
K2D
K2 2mm
K62

K62 3mm

K82

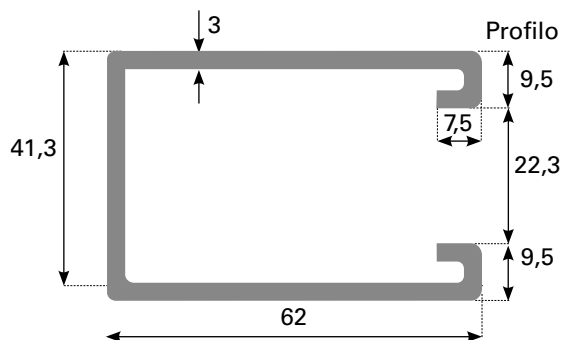
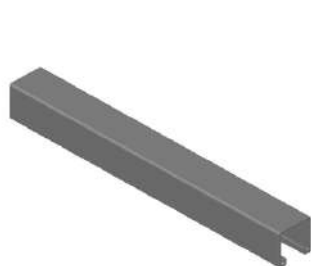
K30

K32

K1Z

GPK2

GL1



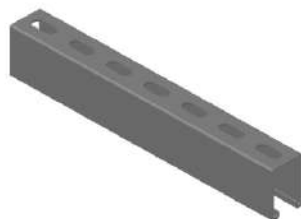
Profilo K62 anchor channel
mm 42x62x3
Kg/ml. 4,19
ml.3 - ml.6

Area della sezione	Momento d'inerzia		Modulo di sezione minimo		Mom. Max. ammissibile		Assi	
Section area	Moment of inertia		Section modulus		Max admissible mom.		Axes	
A	Jx	Jy	Wx	Wy	Mx	My	Xg	Yg
mm ²	mm ⁴	mm ⁴	mm ³	mm ³	kN mm	kN mm	mm	mm
534	248.161	160.782	7.410	7.843	1.185,70	1.254,90	21	28,51

mm	kN	mm	kN	mm
500	18,97	0,59	9,49	0,47
1000	9,49	2,37	4,74	1,90
1500	6,32	5,33	3,16	4,27
2000	4,74	9,48	2,37	7,58
2500	3,79	14,81	1,9	11,85
3000	3,16	21,33	1,58	17,06

Codice MI. 3 Materiale
GZSK6203-MM3 Acciaio S235JR -zinc.sendzimir EN 10346
GZK6203-MM3 Acciaio S235JR -zinc.a caldo EN ISO 1461
GNK6203-MM3 Acciaio S235 JR nero
GIK6203-MM3 Inox AISI 304

Code MI. 3 Material
GZSK6203-MM3 S235JR steel - sendzimir galv. EN 10346
GZK6203-MM3 S235JR steel - hot dip galv. EN ISO 1461
GNK6203-MM3 S235JR black steel
GIK6203-MM3 A2 Stainless steel



K62 3mm asolato - slotted CE

Profilo K62 anchor channel
mm 42x62x3
asole / slot mm 13x30
passo / pitch mm 50
Kg/ml. 4,03
ml.3 - ml.6

Area della sezione	Momento d'inerzia		Modulo di sezione minimo		Mom. Max. ammissibile		Assi	
Section area	Moment of inertia		Section modulus		Max admissible mom.		Axes	
A	Jx	Jy	Wx	Wy	Mx	My	Xg	Yg
mm ²	mm ⁴	mm ⁴	mm ³	mm ³	kN mm	kN mm	mm	mm
495	217.433	160.233	6.934	7.816	1.109,40	1.250,60	21	30,64

mm	kN	mm	kN	mm
500	17,75	0,63	8,88	0,51
1000	8,88	2,53	4,44	2,02
1500	5,92	5,69	2,96	4,56
2000	4,44	10,12	2,22	8,10
2500	3,55	15,82	1,78	12,65
3000	2,96	22,78	1,48	18,22

Codice MI. 3 Materiale
GZSK6203-AMM3 Acciaio S235JR -zinc.sendzimir EN 10346
GZK6203-AMM3 Acciaio S235JR -zinc.a caldo EN ISO 1461
GNK6203-AMM3 Acciaio S235 JR nero
GIK6203-AMM3 Inox AISI 304

Code MI. 3 Material
GZSK6203-AMM3 S235JR steel - sendzimir galv. EN 10346
GZK6203-AMM3 S235JR steel - hot dip galv. EN ISO 1461
GNK6203-AMM3 S235JR black steel
GIK6203-AMM3 A2 Stainless steel

K1
K1D
K1 2 mm
K2
K2D
K2 2mm
K62
K62 3mm

K82

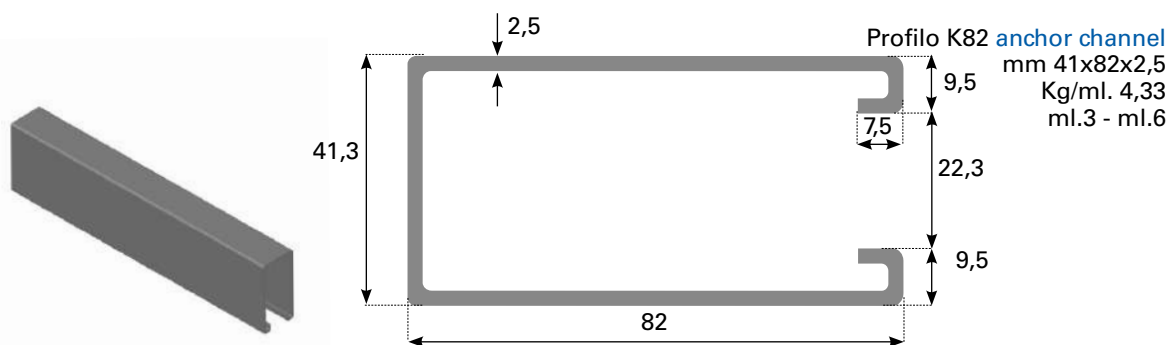
K30

K32

K1Z

GPK2

GL1

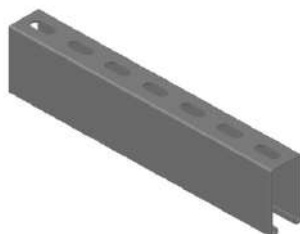


Area della sezione	Momento d'inerzia		Modulo di sezione minimo		Mom. Max. ammissibile		Assi	
Section area	Moment of inertia		Section modulus		Max admissible mom.		Axes	
A	Jx	Jy	Wx	Wy	Mx	My	Xg	Yg
mm ²	mm ⁴	mm ⁴	mm ³	mm ³	kN mm	kN mm	mm	mm
551	435.401	169.706	10.172	8.278	1.627,50	1.324,50	20,5	38,19

mm	kN	mm	kN	mm
500	26,04	0,46	13,02	0,37
1000	13,02	1,85	6,51	1,48
1500	8,68	4,17	4,34	3,34
2000	6,51	7,42	3,25	5,93
2500	5,21	11,59	2,6	9,27
3000	4,34	16,69	2,17	13,35

Codice MI. 3 Materiale
GZSK803 Acciaio S235JR -zinc.sendzimir EN 10346
GZC803 Acciaio S235JR -zinc.a caldo EN ISO 1461
GNK803 Acciaio S235 JR nero
GIK803 Inox AISI 304

Code MI. 3 Material
GZSK803 S235JR steel - sendzimir galv. EN 10346
GZC803 S235JR steel - hot dip galv. EN ISO 1461
GNK803 S235JR black steel
GIK803 A2 Stainless steel



K82 asolato - slotted

Profilo K82 anchor channel
mm 41x82x2,5
asole / slot mm 13x30
passo / pitch mm 50
Kg/ml. 4,19
ml.3 - ml.6

Area della sezione	Momento d'inerzia		Modulo di sezione minimo		Mom. Max. ammissibile		Assi	
Section area	Moment of inertia		Section modulus		Max admissible mom.		Axes	
A	Jx	Jy	Wx	Wy	Mx	My	Xg	Yg
mm ²	mm ⁴	mm ⁴	mm ³	mm ³	kN mm	kN mm	mm	mm
519	388.246	169.249	9.584	8.256	1.533,50	1.321,00	20,5	40,51

mm	kN	mm	kN	mm
500	24,54	0,49	12,27	0,39
1000	12,27	1,96	6,13	1,57
1500	8,18	4,41	4,09	3,53
2000	6,13	7,84	3,07	6,27
2500	4,91	12,25	2,45	9,8
3000	4,09	17,63	2,04	14,11

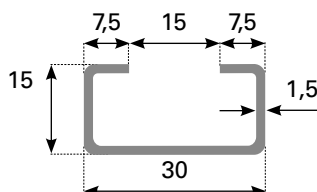
Codice MI. 3 Materiale
GZSK803A Acciaio S235JR -zinc.sendzimir EN 10346
GZC803A Acciaio S235JR -zinc.a caldo EN ISO 1461
GNK803A Acciaio S235 JR nero
GIK803A Inox AISI 304

Code MI. 3 Material
GZSK803A S235JR steel - sendzimir galv. EN 10346
GZC803A S235JR steel - hot dip galv. EN ISO 1461
GNK803A S235JR black steel
GIK803A A2 Stainless steel

K1
K1D
K1 2 mm
K2
K2D
K2 2mm
K62
K62 3mm
K82

K30
K32

K1Z
GPK2
GL1



Profilo K30 **anchor channel**
mm 30x15x1,5
asole / **slot** mm 23x10,5
passo / **pitch** mm 35
Kg/ml. 0,78
ml.2

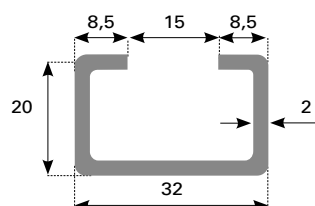
Area della sezione	Momento d'inerzia		Modulo di sezione minimo		Mom. Max. ammissibile		Assi	
Section area	Moment of inertia		Section modulus		Max admissible mom.		Axes	
A	Jx	Jy	Wx	Wy	Mx	My	Xg	Yg
mm ²	mm ⁴	mm ⁴	mm ³	mm ³	kN mm	kN mm	mm	mm
99	3.081	12.685	341	846	54,6	135,4	15	9,03

mm	kN	mm	kN	mm
500	0,76	2,01	0,38	0,69
1000	0,38	8,03	0,12	2,77
1500	0,25	17,83	0,06	6,23
2000	0,19	32,12	0,03	11,07

Codice MI. 3 Materiale
LK30S Acciaio S235JR -zinc.sendzimir EN 10346
LK30SZC Acciaio S235JR -zinc.a caldo EN ISO 1461
LK30N Acciaio S235 JR nero
LK30SA2 Inox AISI 304

Code MI. 3 Material
LK30S S235JR steel - sendzimir galv. EN 10346
LK30SZC S235JR steel - hot dip galv. EN ISO 1461
LK30N S235JR black steel
LK30SA2 A2 Stainless steel

K32 asolato - slotted



Profilo K32 **anchor channel**
mm 32x20x2
asole / **slot** mm 23x10, 5
passo / **pitch** mm 35
Kg/ml. 1,45
ml.2

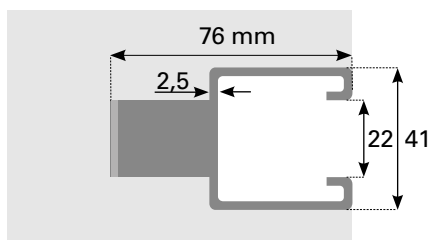
Area della sezione	Momento d'inerzia		Modulo di sezione minimo		Mom. Max. ammissibile		Assi	
Section area	Moment of inertia		Section modulus		Max admissible mom.		Axes	
A	Jx	Jy	Wx	Wy	Mx	My	Xg	Yg
mm ²	mm ⁴	mm ⁴	mm ³	mm ³	kN mm	kN mm	mm	mm
185	9.303	26.354	790	1.647	126,4	263,5	16	11,77

mm	kN	mm	kN	mm
500	1,77	1,55	0,89	0,75
1000	0,88	6,16	0,36	3,00
1500	0,59	13,94	0,16	6,75
2000	0,44	24,63	0,09	12,01

Codice MI. 3 Materiale
LK32SB Acciaio S235JR -zinc.sendzimir EN 10346
LK32SBZC Acciaio S235JR -zinc.a caldo EN ISO 1461
LK32SBN Acciaio S235 JR nero
LK32SBA2 Inox AISI 304

Code MI. 3 Material
LK32SB S235JR steel - sendzimir galv. EN 10346
LK32SBZC S235JR steel - hot dip galv. EN ISO 1461
LK32SBN S235JR black steel
LK32SBA2 A2 Stainless steel

K1
K1D
K1 2 mm
K2
K2D
K2 2mm
K62
K62 3mm
K82
K30
K32
K1Z
GPK2
GL1



Portata Puntuale Point Loading :

Trazione $N = 8,8 \text{ kN} = N \text{ Tension}$

Taglio $V = 8,8 \text{ kN} = V \text{ Shear}$

Profilo per impianti da inserire nelle strutture in calcestruzzo prima che avvenga il getto nel calcestruzzo.

Anchor channel for plant to be inserted in concrete structures before concrete casting.

VANTAGGI

- installazione più veloce
- profilo pre installato
- carichi più elevati
- nessun foro nel calcestruzzo

BENEFITS

- faster installation
- pre-installed profile
- higher loads
- no holes in concrete

DESCRIZIONE

Profilo realizzato in acciaio S235JR e finitura con zincatura tipo sendzimir o a caldo, Inox AISI 304. Riempimento in schiuma di resina sintetica rigida a cellula chiusa ad alta densità.

DESCRIPTION

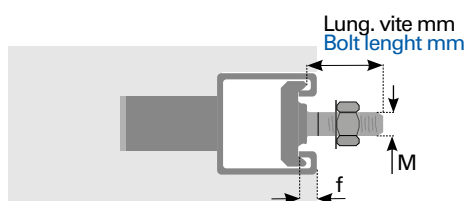
Anchor channel produced S235JR steel, sendzimir or hot dip galvanized, stainless steel A2. Filling foam synthetic resin rigid closed cell high density.

CARATTERISTICHE TECNICHE

Carichi ammissibili con coefficiente di sicurezza 3 in calcestruzzo.
 $R_{ck} = 35 \text{ MPa}$

TECHNICAL SPECIFICATIONS

Maximum admissible load with safety factor 3 in concrete.
 $R_{ck} = 35 \text{ MPa}$



VM4

Vite testa ad ancora prodotta in acciaio classe 4.6 zincata elettrolitica.

Produzione inox su richiesta.

Tutti i dettagli a pag. 19

VM4

T bolt produced 4.6 grade electrolytic galvanized.

Stainless steel T bolts production on demand.

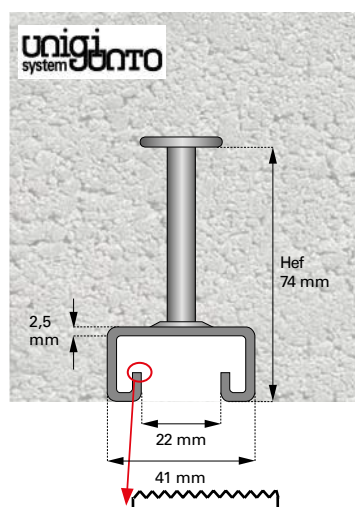
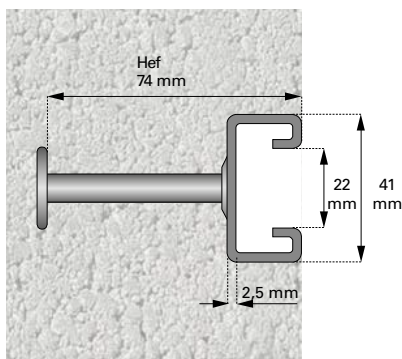
All details in page 19

$$\beta_{N,sc} = \frac{N_{Ed}}{N_{Rd}} \leq 1 \quad \beta_{V,sc} = \frac{V_{Ed}}{V_{Rd}} \leq 1 \quad \beta_{N,sc}^2 + \beta_{V,sc}^2 \leq 1$$

Vite VM4 T bolt				
Diametro	Diameter	M8	M10	M12
Grado	Strenght grade	4.6	4.6	4.6
Trazione kN	Tension Load kN	14.6	23.2	33.7
Taglio kN	Shear Load kN	8.8	13.9	20.2

$\gamma_{Ms,s}$		
Grado	Strenght grade	4.6
Trazione kN	Tension Load kN	2.00
Taglio kN	Shear Load kN	1.67

K1
K1D
K1 2 mm
K2
K2D
K2 2mm
K62
K62 3mm
K82
K30
K32
K1Z
GPK2
GL1



Portata Puntuale: Point Loading:

Trazione **N = 9 kN** = N Tension

Taglio **V = 8 kN** = V Shear

Profilo per impianti da inserire nelle strutture in calcestruzzo prima che avvenga il getto nel calcestruzzo.

Anchor channel for plant to be inserted in concrete structures before concrete casting.

VANTAGGI

- installazione più veloce
- profilo pre installato
- carichi più elevati
- nessun foro nel calcestruzzo

BENEFITS

- faster installation
- pre-installed profile
- higher loads
- no holes in concrete

DESCRIZIONE

Profilo realizzato in acciaio S235JR e finitura con zincatura tipo sendzimir o a caldo, Inox AISI 304. Riempimento in schiuma di resina sintetica rigida a cellula chiusa ad alta densità.

DESCRIPTION

Anchor channel produced S235JR steel, sendzimir or hot dip galvanized, stainless steel A2. Filling foam synthetic resin rigid closed cell high density.

CARATTERISTICHE TECNICHE

Carichi ammissibili con coefficiente di sicurezza 3 in calcestruzzo.
Rck = 35 MPa

TECHNICAL SPECIFICATIONS

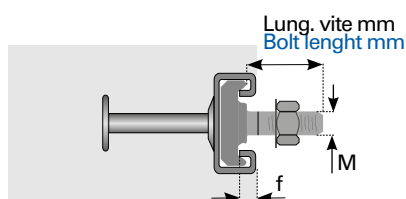
Maximum admissible load with safety factor 3 in concrete.
Rck = 35 MPa

PROVE

Trazione, Taglio e Scorrimento in blocchi di CLS condotte presso il Politecnico di Milano nel 1997 e precedenti annate

TESTs

Traction, Shear, and Friction tests in concrete blocks, tested in Politecnico di Milano, laboratory 1997 and earlier



VM4

Vite testa ad ancora prodotta in acciaio classe 4.6 zincata elettrolitica.

Produzione inox su richiesta.

Tutti i dettagli a pag. 19

VM4

T bolt produced 4.6 grade electrolytic galvanized.

Stainless steel T bolts production on demand.

All details in page 19

$$\beta_{N,sc} = \frac{N_{Ed}}{N_{Rd}} \leq 1 \quad \beta_{V,sc} = \frac{V_{Ed}}{V_{Rd}} \leq 1 \quad \beta_{N,sc}^2 + \beta_{V,sc}^2 \leq 1$$

Vite VM4 T bolt				
Diametro	Diameter	M8	M10	M12
Grado	Strenght grade	4.6	4.6	4.6
Trazione kN	Tension Load kN	14.6	23.2	33.7
Taglio kN	Shear Load kN	8.8	13.9	20.2

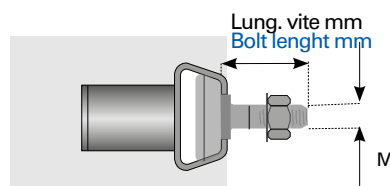
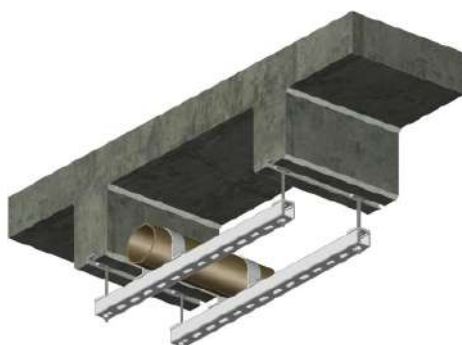
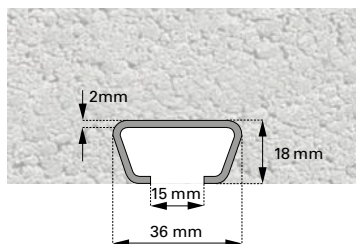
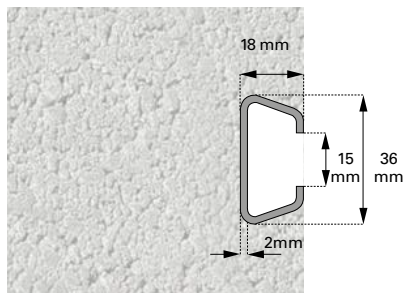
Y Ms,s		
Grado	Strenght grade	4.6
Trazione kN	Tension Load kN	2.00
Taglio kN	Shear Load kN	1.67

Prodotto CE secondo EN1090.

CE certification as EN1090

K1
K1D
K1 2 mm
K2
K2D
K2 2mm
K62
K62 3mm
K82
K30
K32
K1Z
GPK2

GL1



Portata Puntuale: Point Loading :

Trazione $N = 3,5 \text{ kN} = N \text{ Tension}$

Taglio $V = 4,5 \text{ kN} = V \text{ Shear}$

Profilo per impianti da inserire nelle strutture in calcestruzzo prima che avvenga il getto nel calcestruzzo.

Anchor channel for plant to be inserted in concrete structures before concrete casting.

VANTAGGI

- installazione più veloce
- profilo pre installato
- carichi più elevati
- nessun foro nel calcestruzzo

BENEFITS

- faster installation
- pre-installed profile
- higher loads
- no holes in concrete

DESCRIZIONE

Profilo realizzato in acciaio S235JR e finitura con zincatura tipo sendzimir o a caldo, Inox AISI 304. Riempimento in schiuma di resina sintetica rigida a cellula chiusa ad alta densità.

DESCRIPTION

Anchor channel produced S235JR steel, sendzimir or hot dip galvanized, stainless steel A2. Filling foam synthetic resin rigid closed cell high density.

CARATTERISTICHE TECNICHE

Carichi ammissibili con nte di sicurezza 3 in zzo.

$R_{ck} = 35 \text{ MPa}$

TECHNICAL SPECIFICATIONS

Maximum admissible load with safety factor 3 in concrete.

$R_{ck} = 35 \text{ MPa}$

PROVE

Trazione, Taglio e Scorrimento in blocchi di CLS condotte presso il Politecnico di Milano nel 1994 e precedenti annate

TESTs

Traction, Shear, and Friction tests in concrete bloks, tested in Politecnico of Milan, laboratory 1994 and earlier

VM3

Vite testa ad ancora prodotta in acciaio classe 4.6 zincata elettrolitica.

Produzione inox su richiesta.

VM3

T bolt produced 4.6 grade electrolytic galvanized.

Stainless steel T bolts production on demand.

Tutti i dettagli a pag. 19

All details in page 19

$$\beta_{N,sc} = \frac{N_{Ed}}{N_{Rd}} \leq 1 \quad \beta_{V,sc} = \frac{V_{Ed}}{V_{Rd}} \leq 1 \quad \beta_{N,sc}^2 + \beta_{V,sc}^2 \leq 1$$

Vite VM3 T bolt		
Diametro	Diameter	M12
Grado	Strenght grade	4.6
Trazione kN	Tension Load kN	33.7
Taglio kN	Shear Load kN	20.2

$\gamma_{Ms,s}$		
Grado	Strenght grade	4.6
Trazione kN	Tension Load kN	2.00
Taglio kN	Shear Load kN	1.67

Prodotto CE secondo EN1090.

CE certification as EN1090



		Profilo K1 Channel			Piatto / Plate				Carichi / Loads			
Zinc.Eletttr.	Zinc.a caldo	Lung.	Asola	Passo	Altezza	Spessore	Ø Fori	Inter. Fori				Peso
Electr.galv.	H.D.G.	Length	Slot	Pitch	Height	Thickness	Ø Holes	Pitch holes				Weight
		mm	mm	mm	mm	mm	mm	mm	kN	kN	kN	Kg
LE103/01	LC103/01	125	13 x 30	50	145	6	14	105	7,84	7,84	3,92	0,72
LE103/02	LC103/02	175	13 x 30	50	145	6	14	105	5,6	5,6	2,8	0,86
LE103/03	LC103/03	225	13 x 30	50	145	6	14	105	4,36	4,36	2,18	1,08
LE103/04	LC103/04	275	13 x 30	50	145	6	14	105	3,56	3,56	1,78	1,15
LE103/05	LC103/05	325	13 x 30	50	145	6	14	105	3,02	3,02	1,51	1,24
LE103/06	LC103/6AB	425	13 x 30	50	145	8	14	105	2,31	2,31	1,15	1,51
LE103/07	LC103/7A	525	13 x 30	50	145	8	14	105	1,87	1,87	0,93	1,78
LE103/08	LC103/8AB	625	13 x 30	50	145	8	14	105	1,57	1,57	0,78	2,05
LE103/800	LC103/800	800	13 x 30	50	145	8	14	105	1,23	1,23	0,61	2,57
LE103/1000	LC103/1000	1000	13 x 30	50	145	8	14	105	0,98	0,98	0,49	3,1



Mensole K1D

K1D Brackets

		Profilo K1D Channel			Piatto / Plate				Carichi / Loads			
Zinc.Eletttr.	Zinc.a caldo	Lung.	Asola	Passo	Altezza	Spessore	Ø Fori	Inter.Fori				Peso
Electr.galv.	H.D.G.	Length	Slot	Pitch	Height	Thickness	Ø Holes	Pitch holes				Weight
		mm	mm	mm	mm	mm	mm	mm	kN	kN	kN	Kg
LE127/05	LC127/05	325	13 x 30	50	190	10	14	150	9,09	9,09	4,55	2,1
LE127/06	LC127/06	425	13 x 30	50	190	10	14	150	6,95	6,95	3,48	2,61
LE127/07	LC127/07	525	13 x 30	50	190	10	14	150	5,63	5,63	2,81	3,12
LE127/08	LC127/08	625	13 x 30	50	190	10	14	150	4,73	4,73	2,36	3,63
LE127/09	LC127/09	750	13 x 30	50	190	10	14	150	3,94	3,94	1,97	4,27
LE127/11	LC127/11	850	13 x 30	50	190	10	14	150	3,48	3,48	1,74	4,78
LE127/10	LC127/10	1000	13 x 30	50	190	10	14	150	2,95	2,95	1,48	5,54

LE

acciaio S235JR EN 10025
 zincato elettrolitico ISO2081 - μm 12

S235JR steel EN 10025
 Hot Dip electrolytic galvanized ISO2081 - μm 12

LC

acciaio S235JR EN 10025
 zincato a caldo ISO1461 - $\geq \mu\text{m}$ 55

S235JR steel EN 10025 Hot Dip
 Galvanized ISO1461 - $\geq \mu\text{m}$ 55



K1 inox / A2 K1 Channel				Piatto / Plate				Carichi / Loads			Peso Weight
Inox 304 A2	Lung. Prof. Length Chan.	Asola Slot	Passo Pitch	Altezza Height	Spessore Thickness	Ø Fori Ø Holes	Interasse Fori Pitch holes				
		mm	mm	mm	mm	mm	mm	kN	kN	kN	Kg
LI104/02	175	13 x 30	50	145	5	13,5	105	4,7	4,7	2,35	0,72
LI104/03	225	13 x 30	50	145	5	13,5	105	3,66	3,66	1,83	0,83
LI104/04	275	13 x 30	50	145	5	13,5	105	2,99	2,99	1,5	0,94
LI104/05	325	13 x 30	50	145	5	13,5	105	2,53	2,53	1,27	1,05
LI104/06	425	13 x 30	50	145	5	13,5	105	1,94	1,94	0,97	1,27
LI104/07	525	13 x 30	50	145	5	13,5	105	1,57	1,57	0,78	1,49
LI104/08	625	13 x 30	50	145	5	13,5	105	1,32	1,32	0,66	1,71
LI104/09	750	13 x 30	50	145	5	13,5	105	1,1	1,1	0,55	1,98
LI104/11	850	13 x 30	50	145	5	13,5	105	0,97	0,97	0,48	2,2
LI104/10	1000	13 x 30	50	145	5	13,5	105	0,82	0,82	0,41	2,53



Profilo K2 Channel					Piatto / Plate				Carichi / Loads			Peso Weight
Zinc.Eletttr. Electr.galv.	Zinc.a caldo H.D.G.	Lung. Length	Asola Slot	Passo Pitch	Altezza Height	Spessore Thickness	Ø Fori Ø Holes	Inter. Fori Pitch holes				
		mm	mm	mm	mm	mm	mm	mm	kN	kN	kN	Kg
LE203/01	LC203/01	125	13 x 30	50	145	6	14	105	2,77	2,77	1,38	0,57
LE203/02	LC203/02	175	13 x 30	50	145	6	14	105	1,98	1,98	0,99	0,66
LE203/03	LC203/03	225	13 x 30	50	145	6	14	105	1,54	1,54	0,77	0,75
LE203/04	LC203/04	275	13 x 30	50	145	6	14	105	1,26	1,26	0,63	0,84
LE203/05	LC203/05	325	13 x 30	50	145	6	14	105	1,06	1,06	0,53	0,93
LE203/06	LC203/06	425	13 x 30	50	145	6	14	105	0,81	0,81	0,41	1,12
LE203/07	LC203/07	525	13 x 30	50	145	6	14	105	0,66	0,66	0,33	1,3
LE203/08	LC203/08	625	13 x 30	50	145	6	14	105	0,55	0,55	0,28	1,48

LE

acciaio S235JR EN 10025
zincato elettrolitico ISO2081 - μm 12

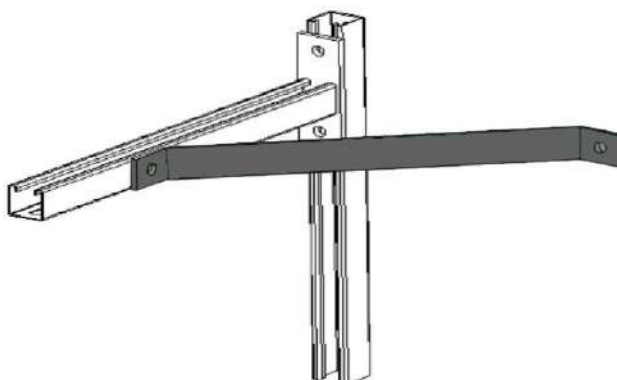
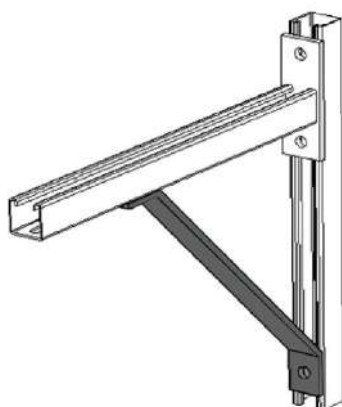
S235JR steel EN 10025
Hot Dip electrolytic galvanized ISO2081 - μm 12

LC

acciaio S235JR EN 10025
zincato a caldo ISO1461 - $\geq \mu\text{m}$ 55

S235JR steel EN 10025 Hot Dip
Galvanized ISO1461 - $\geq \mu\text{m}$ 55

Saetta		Profilo K1 channel	Piatto / Plate			
Cod. elettr.	Cod. a caldo	Lunghezza Profilo	Angolo	Ø Fori	Piatto	Peso
Electr.galv.	H.D.G.	Length Channel	Angle	Ø Holes	Plate	Weight
		mm	mm	mm	mm	Kg
LES4	LCS4	50 + 400 + 50	45°	14	105	0,72



Dado VM30		Nuts			
Zinc. Elettrolitico	Filetto	Profilo	Peso	Conf.	Peso
Electrolytic galv.	Thread	Channel	Weight	Packing	Weight
			Kg/100	pz	Kg
L6513006	M 6	K30-K32	1,3	100	0,72
L6510008	M 8	K30-K32	1,3	100	0,80
L6510010	M 10	K30-K32	1,3	100	0,85



LE

acciaio S235JR EN 10025
zincato elettrolitico ISO2081 - μm 12
S235JR steel EN 10025
Hot Dip electrolytic galvanized ISO2081 - μm 12

LC

acciaio S235JR EN 10025
zincato a caldo ISO1461 - $\geq \mu\text{m}$ 55
S235JR steel EN 10025 Hot Dip
Galvanized ISO1461 - $\geq \mu\text{m}$ 55

Vite VM4

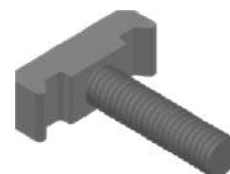
Vite VM4 testa ad ancora prodotta in acciaio classe 4.6
 finitura zincata secondo UNI ISO 2081
 Europea 2002/95 Rohs
 Produzioni su richiesta:
 inox AISI 304 e 316
 Vite fornita completa di dado e rondella
 piana, ma non preassemblata

VM4 T bolt

T bolt VM4 produced in steel grade 4.6,
 galvanized according to UNI ISO2081
 European 2002/95 Rohs

On demand:
 stainless steel A2 and A4
 T bolt with nut and plain washer
 included, but not preassembled

Vite VM4 T bolt					
Zinc. Elettrolitico	A caldo	Filetto	Profilo	Peso	Confezione
Electrolytic galv.	H.D.G.	Thread	Channel	Weight	Packing
		M	Unigiunto	Kg/100	N°
VM4B-EL		M 10x30	K1-K2-K62-K82	0,38	200
DPV4E1030	DPV4C1030	M 10x30	K1-K2-K62-K82	0,419	200
LVM4D-EL1450		M 14x50	K1Z-K2Z		



Profilo / channel

GPk2..... pag. 14

K1Z..... pag. 13

Vite LFV/TM T bolt				
Zinc. Elettrolitico	Filetto	Profilo	Peso	Confezione
Electrolytic galv.	Thread	Channel	Weight	Packing
		M	Unigiunto	N°
LZVM4M0830	8X30	K1-K2-K62-K82	3,56	100
LZVM4M0840	8X40	K1-K2-K62-K82	4	100
LFV/TM0830	8x30	K30-K32	3,65	100
LFV/TM1030	10x30	K30-K32	5,36	100



Dadi VM4 Nuts					
Zinc. Elettrolitico	Filetto	Molla	Profilo	Peso	Confezione
Electrolytic galv.	Thread	Spring	Channel	Weight	Packing
		M		Kg/100	N°
LVM4-06	M 6	senza	K1-K2-K82	2,75	100
LVM4-08	M 8	without	K1-K2-K82	2,75	100
LVM4-10	M 10	senza	K1-K2-K82	3,6	100
LVM4-12	M 12	without	K1-K2-K82	4,1	100
LVM4S06	M 6	corta	K2	2,84	100
LVM4S08	M 8	short	K2	2,84	100
LVM4S10	M 10	corta	K2	3,5	100
LVM4L06	M 6	lunga	K1	2,94	100
LVM4L08	M 8	long	K1	2,94	100
LVM4L10	M 10	lunga	K1	3,64	100
LVM4L12	M 12	long	K1	4,24	100



Prove di trazione / Tensile test				
Filetto	Carico consigliato	Rottura	Coppia di chiusura	Carico Scorrimento
Threaded	Recommended Loads	Failure	Clamping torque	Frictional load
		kN	Nm	N
M6	3,62	>10,85	15	660
M8	4,93	>14,8	28	3000
M10	7,03	>21,10	56	4500
M12	9,07	>27,20	65	5700

Vite T.E.

Vite a Testa Esagonale con gambo interamente filettato.

Filettatura metrica a passo grosso - cat. A
 Filettata secondo UNI 5739

Hexagon headed bolt

Hexagon Headed T.bolt with all threaded

Metric threaded with big step - cat. A
 Threaded as UNI 5739

Viti T.E. T bolt				
Zincato elettr.	Aisi 304	AISI 316	Filetto	Peso
Elettr. Galvanized	A2	A4	Thread	Weight
			M	Kg/100
ATZ0620	ATI0620	ATI0620-A316	M 6x20	0,58
ATZ0625A	ATI0625	ATI0625-A316	M 6x25	0,67
ATZ0630	ATI0630	ATI0630-A316	M 6x30	0,75
ATZ0640	ATI0640	ATI0640-A316	M 6x40	0,94
ATZ0650	ATI0650	ATI0650-A316	M 6x50	1,12
ATZ0660	ATI0660	ATI0660-A316	M 6x60	1,24
ATZ0820	ATI0820	ATI0820-A316	M 8x20	1,22
ATZ0825	ATI0825	ATI0825-A316	M 8x25	1,38
ATZ0830	ATI0830	ATI0830-A316	M 8x30	1,55
ATZ0835	ATI0835	ATI0835-A316	M 8x35	1,7
ATZ0840	ATI0840	ATI0840-A316	M 8x40	1,88
ATZ0850	ATI0850	ATI0850-A316	M 8x50	2,21
ATZ0860	ATI0860	ATI0860-A316	M 8x60	2,55
ATZ0870	ATI0870	ATI0870-A316	M 8x70	2,86
ATZ1020	ATI1020	ATI1020-A316	M 10x20	2,3
ATZ1025A	ATI1025	ATI1025-A316	M 10x25	2,51
ATZ1030	ATI1030	ATI1030-A316	M 10x30	2,76
ATZ1035	ATI1035	ATI1035-A316	M 10x35	3,01
ATZ1040	ATI1040	ATI1040-A316	M 10x40	3,26
ATZ1050	ATI1050	ATI1050-A316	M 10x50	3,76
ATZ1060	ATI1060	ATI1060-A316	M 10x60	4,26
ATZ1070	ATI1070	ATI1070-A316	M 10x70	4,76
ATZ1220	ATI1220	ATI1220-A316	M 12x20	3,23
ATZ1225	ATI1225	ATI1225-A316	M 12x25	3,6
ATZ1230	ATI1230	ATI1230-A316	M 12x30	3,96
ATZ1235	ATI1235	ATI1235-A316	M 12x35	4,33
ATZ1240	ATI1240	ATI1240-A316	M 12x40	4,7
ATZ1250	ATI1250	ATI1250-A316	M 12x50	5,44
ATZ1260	ATI1260	ATI1260-A316	M 12x60	6,18
ATZ1270	ATI1270	ATI1270-A316	M 12x70	7,65



Dado Esagonale

UNI 5588 - DIN 934

Hex nut

UNI 5588 - DIN 934

Dado / Nut					
Zincato elettr.	Aisi 304	Aisi 316	Misure	Peso	Confezione
Elettr. Galvanized	A2	A4	Size	Weight	Packing
			M	Kg/100	N°
ADZ06	ADI06	ADI06-A316	M 6	0,25	250
ADZ08	ADI08	ADI08-A316	M 8	0,53	250
ADZ10	ADI10	ADI10-A316	M 10	1,15	250
ADZ12	ADI12	ADI12-A316	M 12	1,69	250
ADZ16	ADI16	ADI16-A316	M 16	3,33	250



Rondella Piana

Plain washer

Rondella Piana / Plain washer UNI 6592					
Zinc. elett.	Aisi 304	AISI 316	Misura	Larghezza	Peso
Elett. Galv.	A2	A4	Size	Width	Weight
			M	mm	Kg/pz
APZ06	API06	API06-A316	M 6	12	0,11
APZ08	API08	API08-A316	M 8	16	0,22
APZ10	API10	API10-A316	M 10	21	0,41
APZ12	API12	API12-A316	M 12	24	0,63
APZ16	API16	API16-A316	M 16	30	1,13



Rondella Piana Larga

Large flat washer

Rondella Piana Larga/ Large flat washer UNI6593						
Zinc. elett.	Aisi 304	AISI 316	Misura	Larghezza	Spessore	Peso
Elett. Galv.	A2	A4	Size	Width	Thickness	Weight
			M	mm	mm	Kg/pz
APZ0618	API0618		M 6	18	1,6	0,5
APZ0824A	API0824	API0824-A316	M 8	24	1,6	0,6
APZ1030	API1030	API1030-A316	M 10	30	2	0,9
APZ1236	API12		M 12	36	2,5	1,6
APZ1442			M 14	42	3	1,7



Rond. Piana ExtraLarga

Extralarge flat washer

Rondella Piana Extralarga/ Extralarge flat washer UNI6593						
Zinc. elett.	Aisi 304	AISI 316	Misura	Larghezza	Spessore	Peso
Elett. Galv.	A2	A4	Size	Width	Thickness	Weight
			M	mm	mm	Kg/100
APZ0624	API0624		M 6	32	1,6	0,5
APZ0832A	API083225		M 8	32	2,5	0,6
APZ0840x4			M 8	40	4,4	0.85
APZ1040x4	API1040x4		M 10	40	4	0.90
APZ1248x4	API12		M 12	42	4	1,6



Rondella Grower

Spring washer

sezione quadra

square section

Rondella Grower / Spring washer UNI 1751 special						
Zinc. elett.	Aisi 304	AISI 316	Misure	Larghezza	Spessore	Peso
Elett. Galv.	A2	A4	Size	Width	Thickness	Weight
			M	mm	mm	Kg/100
AGZ06	AGI06	AGI06-A316	M 6	18	1,6	0,08
AGZ08	AGI08	AGI08-A316	M 8	24	2	0,16
AGZ10	AGI10	AGI10-A316	M 10	30	2,2	0,25
AGZ12A	AGI12	AGI12-A316	M 12	36	2,5	0,38
AGZ16A	AGI16		M 16	27,4	3,5	0,89



zincato elettrolitico electrolytic galvanized

electrolytic galvanized

acciaio S235JR EN 10025
UNI3740/6 - µm 12

S235JR steel EN 10025
UNI3740/6 - µm 12

Manicotto Passante/Passing Coupling

Manicotto / Couplings			
Zinc. Elettr.	Misura	Peso	Confezione
Electr.Galv.	Size	Weight	Packing
	M	Kg/pcs	N°
L139AA	M 8x30	0,084	250
L140	M 10x30	0,109	250
L141	M 12x50	0,084	250
L143	M 16 x 60	0,15	100



Adattatore / Adaptorail

Adattatore / Adaptorail				
Zinc. Elettr.	Filetto - Threaded		Peso	Confezione
Electr.Galv.	Femmina Fem tip	Maschio tap	Weight	Packing
	M	M	Kg/100	N°
LF10M08	M 10	M 8	0,8	250
LF12M10	M 12	M 10	1,4	250

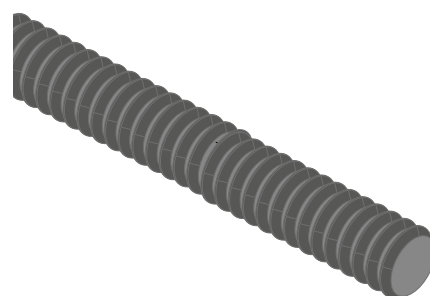
Barra filettata

zincato classe 4.6

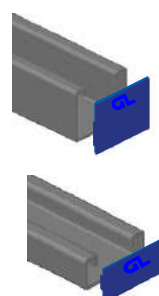
Threaded rod

Grade 4.6 galvanized

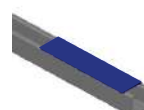
Barra filettata / Treaded rod						
Zinc. Elettr.	Aisi 304	Aisi 316	Lunghezza	Misura	Peso	Fasci da
Electr.Galv.	A2	A4	Lenght	Size	Weight	Bundle of
			cm	M	Kg/100	N°
BZ06	BI06	BI06-A316	100	M 6	18,6	50
BZ08	BI08	BI08-A316	100	M 8	31,9	50
BZ10	BI10	BI10-A316	100	M 10	50	50
BZ12	BI12	BI12-A316	100	M 12	72,5	50
BZ16	BI16	BI16-A316	100	M 16	133	50
BZ06/3	BI06/3	BI06/3-A316	300	M 6	55,8	50
BZ08/3	BI08/3	BI08/3-A316	300	M 8	95,7	50
BZ10/3	BI10/3	BI10/3-A316	300	M 10	150	50
BZ12/3	BI12/3	BI12/3-A316	300	M 12	217,5	50
BZ16/3	BI16/3	BI16/3-A316	300	M 16	399	50



Tappo terminale in plastica / Plastic end cap				
Codice	Colore	Profilo	Peso	Confezione
Code	Colour	Channel	Weight	Packing
		cm	Kg/100	N°
LA101CGL	blu blue	K1	0,5	1
LA101BGL	bianco white	K1	0,5	1
LA102CGL	blu blue	K2	0,5	1
LA102BGL	bianco white	K2	0,5	1



Rivestimento per profilo / Coating channel				
Codice	Materiale	Profilo	Peso	Confezione
Code	Material	Channel	Weight	Packing
		cm	Kg/ml	N°
LA103/P	gomma rubber	K1 - K2 - K82	0,15	1
LA103/PA	acciaio steel	K1 - K2 - K82	0,15	1



zincato elettrolitico electrolytic galvanized

acciaio S235JR EN 10025
UNI3740/6 - µm 12

electrolytic galvanized

S235JR steel EN 10025
UNI3740/6 - µm 12

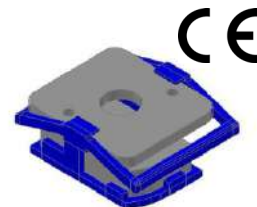
Dado rapido e rondella preassemblati

Dado e rondella preassemblati per fissaggio rapido in Fe360, zincato elettrolitico con rondella in plastica

Quick nut and washer preassembled

Preassembled nuts and washer for fast fixing, Fe360 zinc plated material.

Dado VM4 con rondella quadra preassemblati per attacco rapido Preassembled nut and washer					
Zinc. Eletttr.	Filetto	Spessore	Profilo	Peso	Confezione
Electr.Galv.	Thread	Thickness	Channel	Weight	Packing
	M	mm		Kg/100	pz
L66517108	M 8	6	K1-K2-K1D	0,065	100



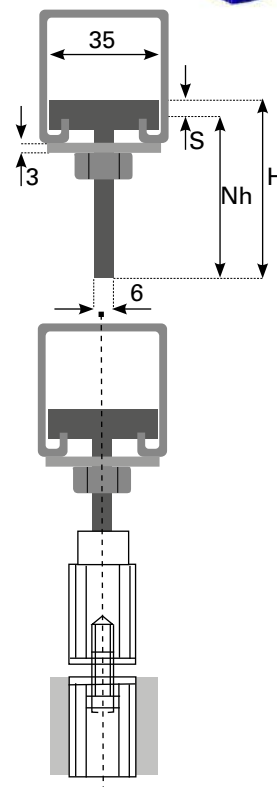
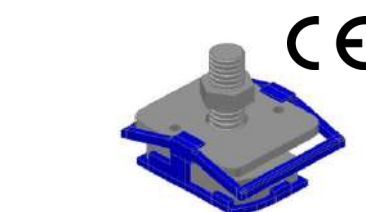
Bullone a T preassemblato

Bullone VM4 con rondella quadra preassemblata per attacco rapido

Preassembled T bolt

VM4TBolt with square washer preassembled for quick

Attacco rapido femmina e rondella preassemblati Preassembled nut and washer		
Zinc. Eletttr.	Filetto	Profilo
Electr.Galv.	Thread	Channel
	mm	
L6527806	M 8 x 60	K1-K2-K82
L6527004	M 10 x 40	K1-K2-K82
L6527006	M 10 x 60	K1-K2-K82



Prove di trazione / Tensile test				
Filetto	Carico consigliato	Rottura	Coppia di chiusura	Carico Scorrimento
Threaded	Recommended Loads	Failure	Clamping torque	Frictional load
	kN	kN	Nm	N
M6	3,62	>10,85	15	660
M8	4,93	>14,8	28	3000
M10	7,03	>21,10	56	4500
M12	9,07	>27,20	65	5700

zincato elettrolitico electrolytic galvanized	electrolytic galvanized
acciaio S235JR EN 10025 UNI3740/6 - µm 12	S235JR steel EN 10025 UNI3740/6 - µm 12

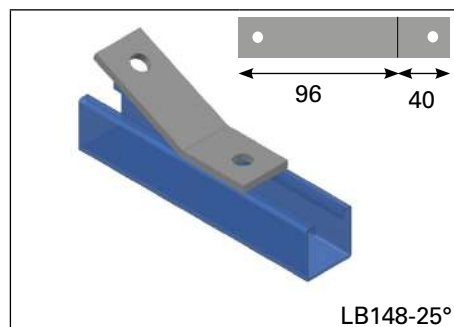
Piastre

Piastre per il collegamento dei profili serie K realizzate con fori diam. 14 mm
 - S235JR : piatto mm 6x40
 - inox 304 o 316 : piatto mm 5x40

Plates

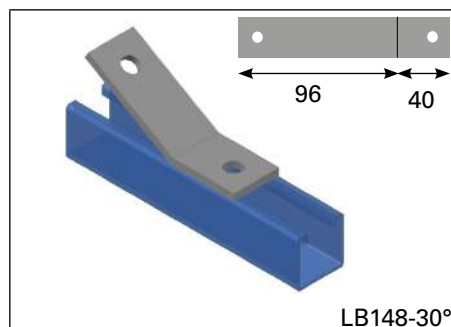
Plates for connecting the K's anchor channels series made with holes diam. 14 mm:
 - S235JR steel plate mm 6x40
 - A2 or A4 steel plate mm 5x40

Codici - Code	
Zincato a caldo Hot Dip Galv.	Inox 304 - A2
Zinc elettrolitico Electrolytic Galv.	inox 316-A4



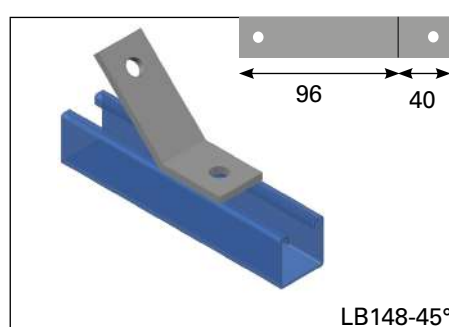
LB148-25°

Peso Weight	
0,244 Kg	
LB148F	LB148F-INOX
LB148F-E	LB148F-A4



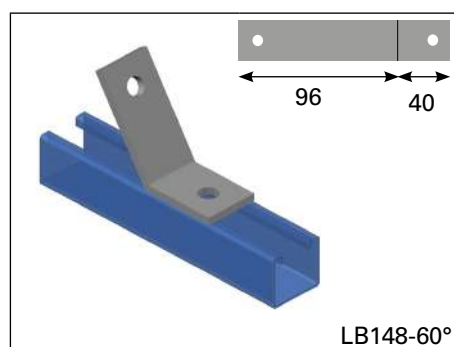
LB148-30°

Peso Weight	
0,244 Kg	
LB148A	LB148A-INOX
LB148A-E	LB148A-A4



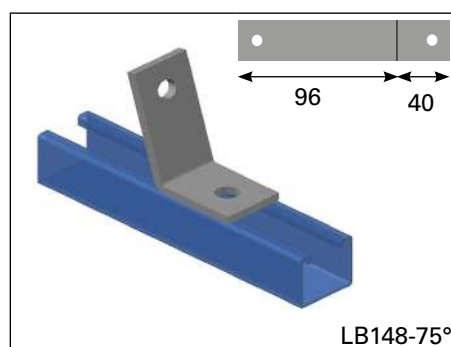
LB148-45°

Peso Weight	
0,244 Kg	
LB148	LB148E-INOX
LB148-E	LB148E-A4



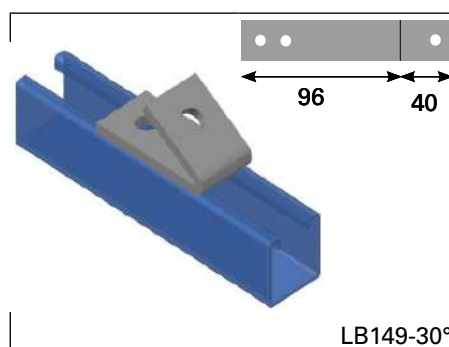
LB148-60°

Peso Weight	
0,244 Kg	
LB148B	LB148B-INOX
LB148B-E	LB148B-A4



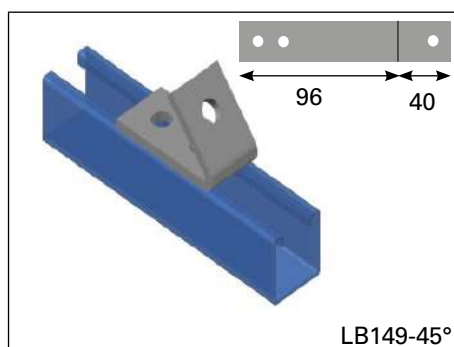
LB148-75°

Peso Weight	
0,244 Kg	
LB148C	LB148C-INOX
LB148C-E	LB148C-A4



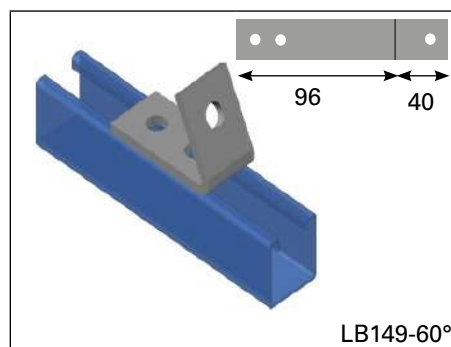
LB149-30°

Peso Weight	
0,244 Kg	
LB149C	LB149C-INOX
LB149C-E	LB149C-A4



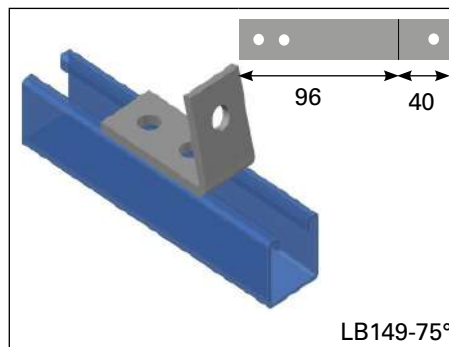
LB149-45°

Peso Weight	
0,244 Kg	
LB149	LB149-INOX
LB149-E	LB149-INOX



LB149-60°

Peso Weight	
0,244 Kg	
LB149BGL	LB149B-INOX
LB149B-E	LB149B-A4



LB149-75°

Peso Weight	
0,244 Kg	
LB149A	LB149A-INOX
LB149A-E	LB149A-A316

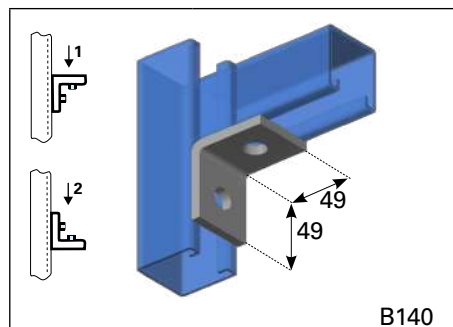
Piastre

Piastre per il collegamento dei profili serie K realizzate con fori diam. 14 mm
 - S235JR : piatto mm 6x40
 - inox 304 o 316 : piatto mm 5x40

Plates

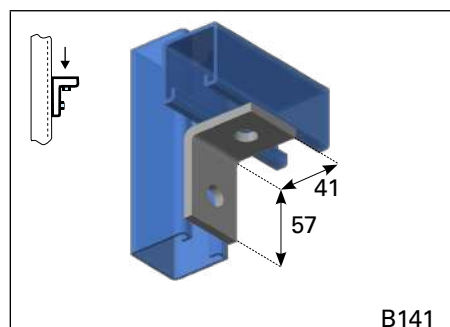
Plates for connecting the K's anchor channels series made with holes diam. 14 mm:
 - S235JR steel plate mm 6x40
 - A2 or A4 steel plate mm 5x40

Codici - Code	
Zincato a caldo Hot Dip Galv.	Inox 304 - A2
Zinc elettrolitico Electrolytic Galv.	inox 316-A4



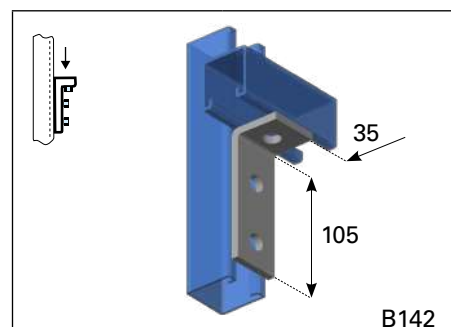
B140

Peso Weight	Carico max Max load
0,153 Kg	4,40 kN 450 Kgf
LB140	LB140-INOX
LB140-E	LB140-A316



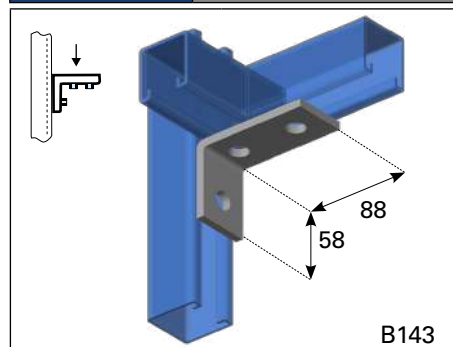
B141

Peso Weight	Carico max Max load
0,153 Kg	3,38 kN 345 Kgf
LB141	LB141-INOX
LB141-E	LB141-A316



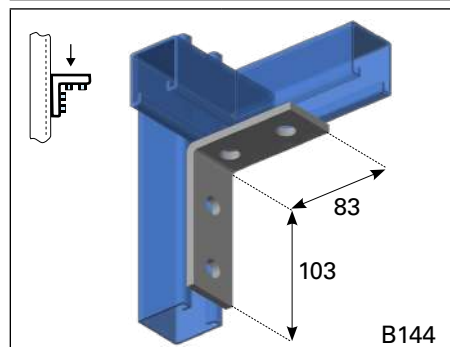
B142

Peso Weight	Carico max Max load
0,235 Kg	3,38 kN 345 Kgf
LB142	LB142-INOX
LB142-E	LB142-A316



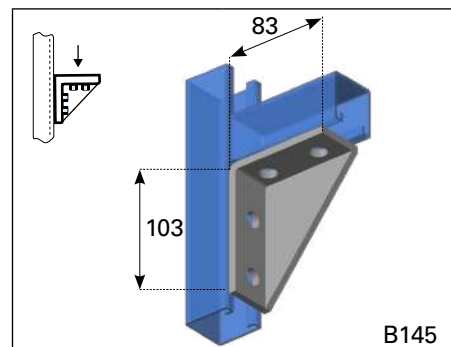
B143

Peso Weight	Carico max Max load
0,235 Kg	6,57 kN 670 Kgf
LB143	LB143-INOX
LB143-E	LB143-A316



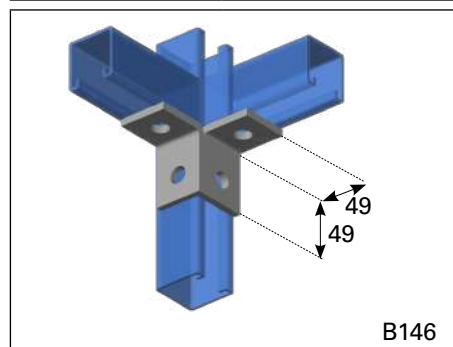
B144

Peso Weight	Carico max Max load
0,309 Kg	8,43 kN 860 Kgf
LB144	LB144-INOX
LB144-E	LB144-A4



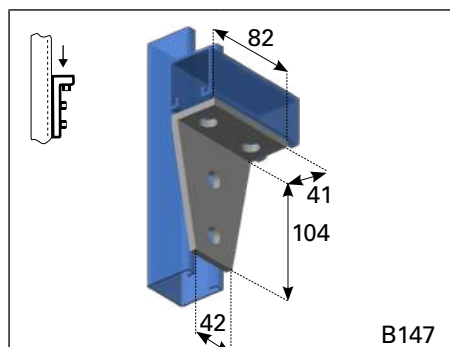
B145

Peso Weight	Carico max Max load
0,403 Kg	12,26 kN 1250 Kgf
LB145	LB145-INOX
LB145-E	LB145-A4



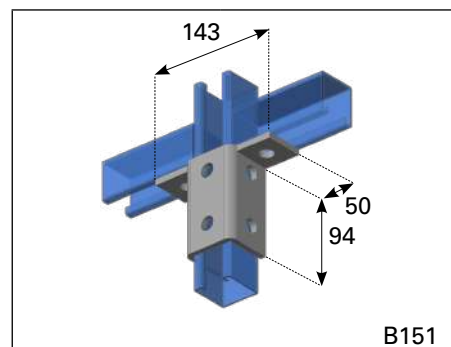
B146

Peso Weight	
0,311 Kg	
LB146	LB146-INOX
LB146-E	LB146-A4



B147

Peso Weight	Carico max Max load
0,393 Kg	6,82 kN 695 Kgf
LB147	LB147-INOX
LB147-E	LB147-A4



B151

Peso Weight	
0,518 Kg	
LB151	LB151-INOX
LB151-E	LB151-A4

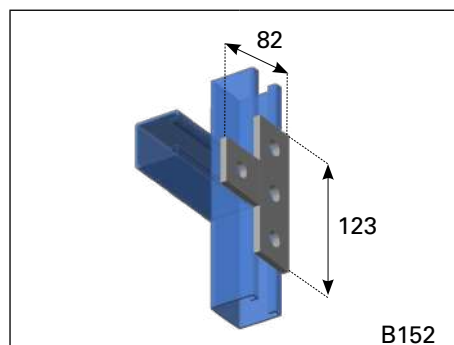
Piastre

Piastre per il collegamento dei profili serie K realizzate con fori diam. 14 mm
 - S235JR : piatto mm 6x40
 - inox 304 o 316 : piatto mm 5x40

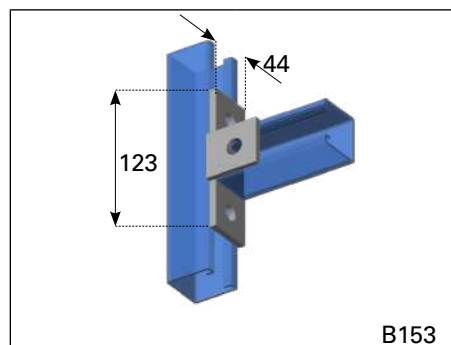
Plates

Plates for connecting the K's anchor channels series made with holes diam. 14 mm:
 - S235JR steel plate mm 6x40
 - A2 or A4 steel plate mm 5x40

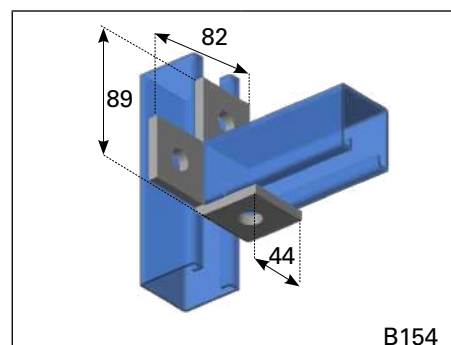
Codici - Code	
Zincato a caldo Hot Dip Galv.	Inox 304 - A2
Zinc elettrolitico Electrolytic Galv.	inox 316-A4



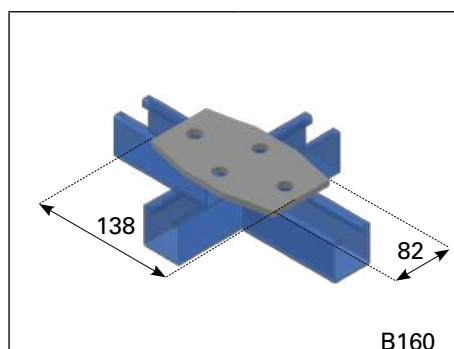
Peso Weight	
0,288 Kg	
LB152	LB152-INOX
LB152-E	LB152-A4



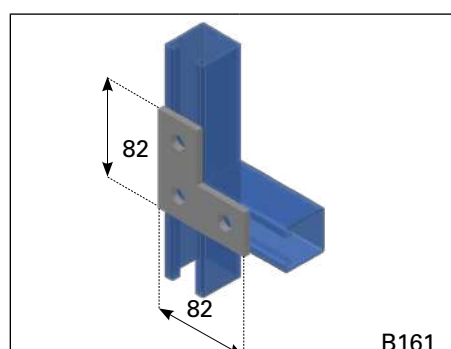
Peso Weight	
0,288Kg	
LB153	LB153-INOX
LB153-E	LB153-A4



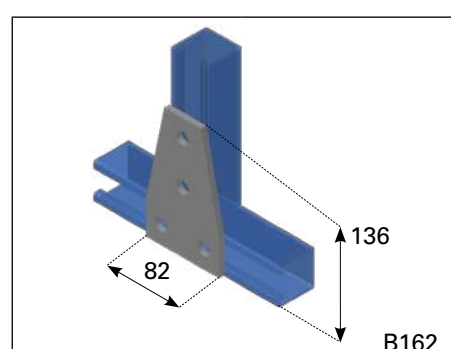
Peso Weight	
0,288Kg	
LB154	LB154-INOX
LB154-E	LB154-A4



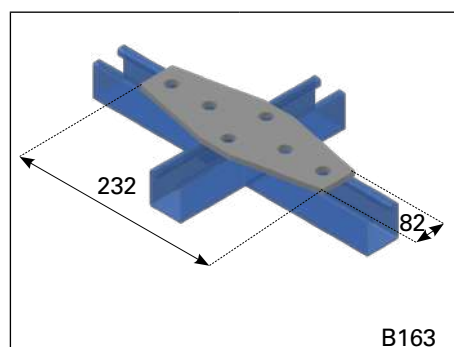
Peso Weight	
0,426 Kg	
LB160	LB160-INOX
LB160-E	LB160-A4



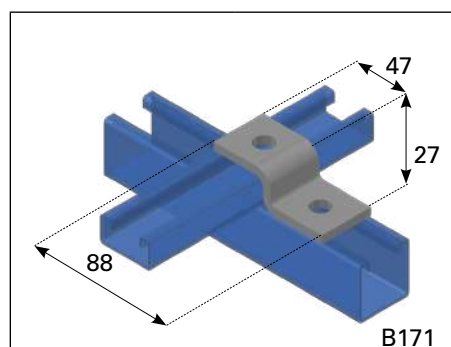
Peso Weight	
0,220 Kg	
LB161	LB161-INOX
LB161-E	LB161-A4



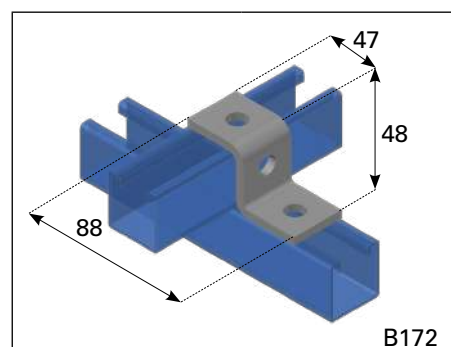
Peso Weight	
0,395 Kg	
LB162	LB162-INOX
LB162-E	LB162-A4



Peso Weight	
0,660Kg	
LB163	LB163-INOX
LB163-E	LB163-A4



Peso Weight	
0,178 Kg	
LB171	LB171-INOX
LB171-E	LB171-A4



Peso Weight	
0,219Kg	
LB172	LB172-INOX
LB172-E	LB172-A4

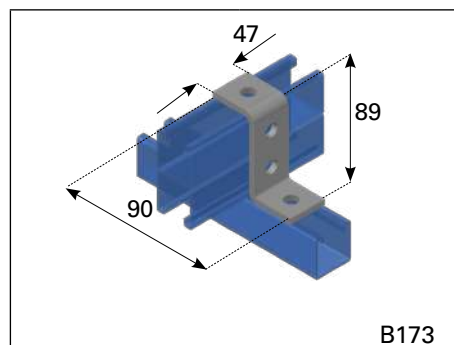
Piastre

Piastre per il collegamento dei profili serie K realizzate con fori diam. 14 mm
- S235JR : piatto mm 6x40
- inox 304 o 316 : piatto mm 5x40

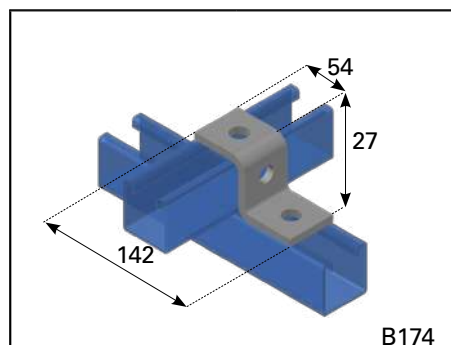
Plates

Plates for connecting the K's anchor channels series made with holes diam. 14 mm:
- S235JR steel plate mm 6x40
- A2 or A4 steel plate mm 5x40

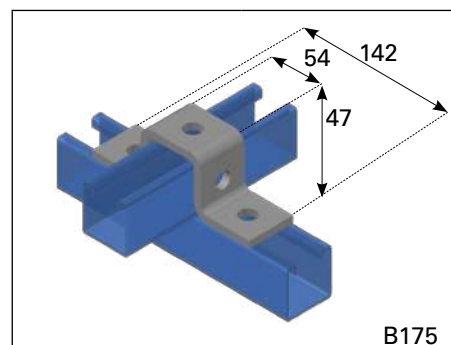
Codici - Code	
Zincato a caldo Hot Dip Galv.	Inox 304 - A2
Zinc elettrolitico Electrolytic Galv.	inox 316-A4



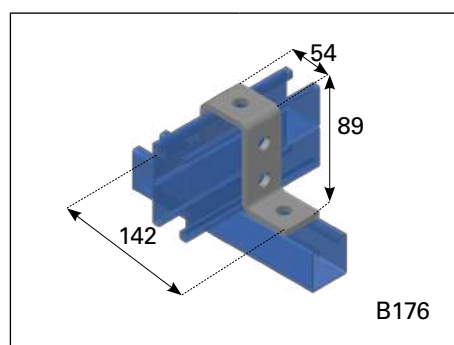
Peso Weight	
0,298 Kg	
LB173	LB173-INOX
LB173-E	LB173-A4



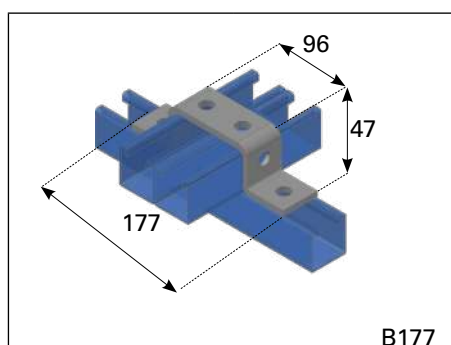
Peso Weight	
0,291Kg	
LB174	LB174-INOX
LB174-E	LB174-A4



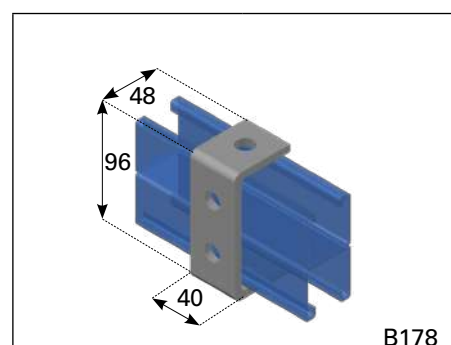
Peso Weight	
0,348 Kg	
LB175	LB175-INOX
LB175-E	LB175-A4



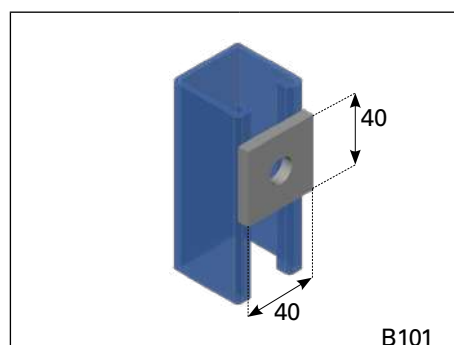
Peso Weight	
0,514 Kg	
LB176	LB176-INOX
LB176-E	LB176-A4



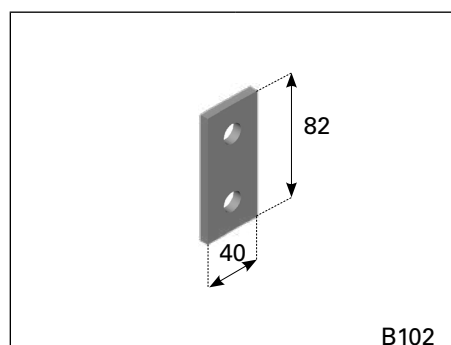
Peso Weight	
0,420 Kg	
LB177	LB177-INOX
LB177-E	LB177-A4



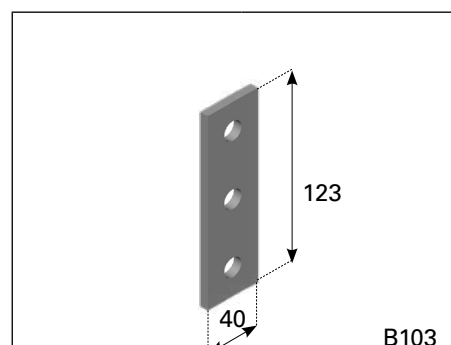
Peso Weight	
0,309 Kg	
LB178	LB178-INOX
LB178-E	LB178-A4



Peso Weight	
0,075 Kg	
LB101	LB101-INOX
LB101-E	LB101-A4



Peso Weight	
0,158Kg	
LB102	LB102-INOX
LB102-E	LB102-A4



Peso Weight	
0,247 Kg	
LB103	LB103-INOX
LB103-E	LB103-A4

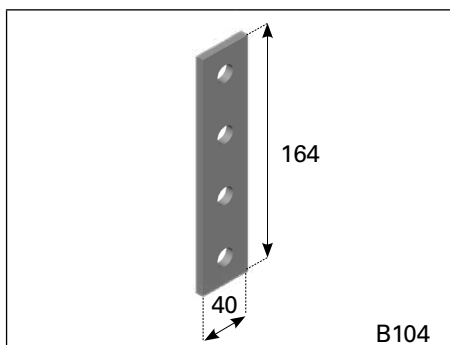
Piastre

Piastre per il collegamento dei profili serie K realizzate con fori diam. 14 mm
 - S235JR : piatto mm 6x40
 - inox 304 o 316 : piatto mm 5x40

Plates

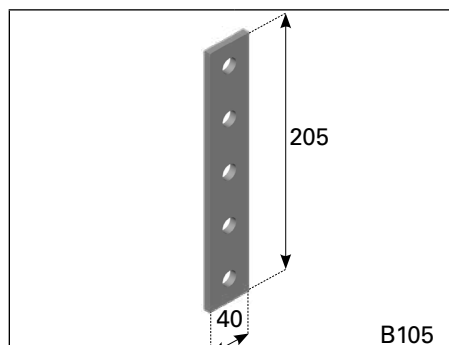
Plates for connecting the K's anchor channels series made with holes diam. 14 mm:
 - S235JR steel plate mm 6x40
 - A2 or A4 steel plate mm 5x40

Codici - Code	
Zincato a caldo Hot Dip Galv.	Inox 304 - A2
Zinc elettrolitico Electrolytic Galv.	inox 316-A4



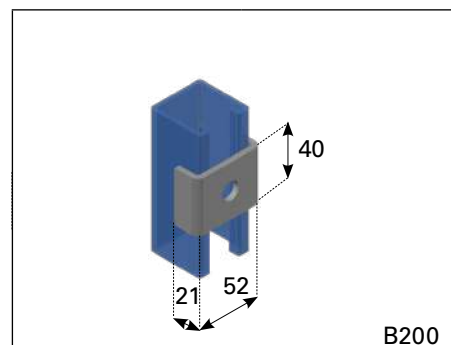
B104

Peso Weight	
0,287 Kg	
LB104	LB104-INOX
LB104-E	LB104-A4



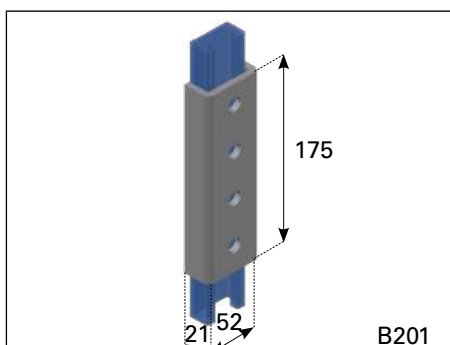
B105

Peso Weight	
0,346 Kg	
LB105	LB105-INOX
LB105-E	LB105-A4



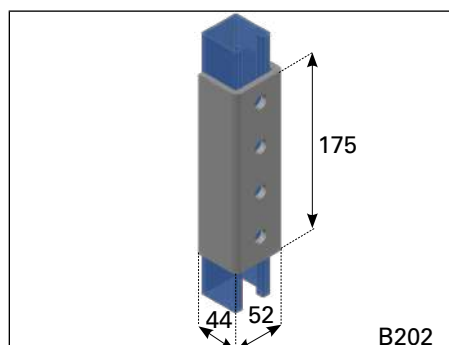
B200

Peso Weight	
0,060Kg	
LB200	LB200-INOX
LB200-E	LB200-A4



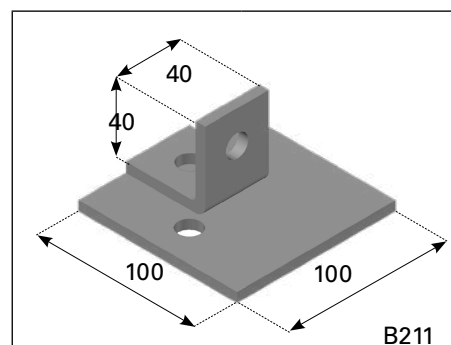
B201

Peso Weight	
0,530 Kg	
LB201	LB201-INOX
LB201-E	LB201-A4



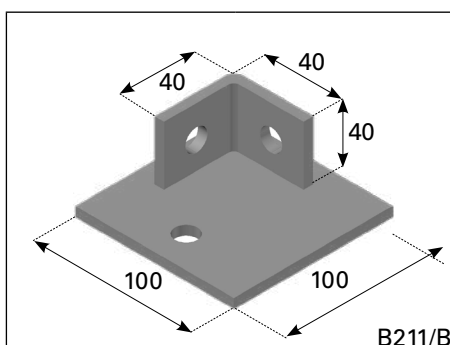
B202

Peso Weight	
0,806 Kg	
LB202	LB202-INOX
LB202-E	LB202-A4



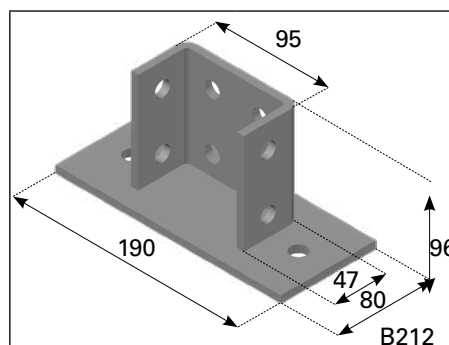
B211

Peso Weight	
0,605Kg	
LB211	LB211-INOX
LB211-E	LB211-A4



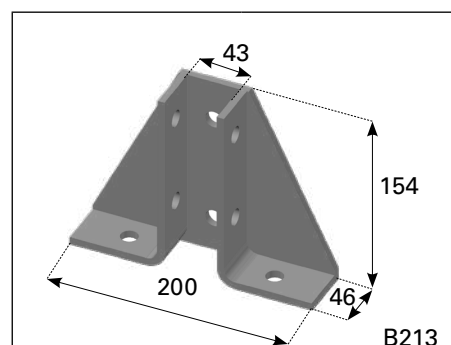
B211/B

Peso Weight	
0,605 Kg	
LB211B	LB211B-INOX
LB211B-E	LB211B-A4



B212

Peso Weight	
1,65 Kg	
LB212	LB212-INOX
LB212-E	LB212-A4

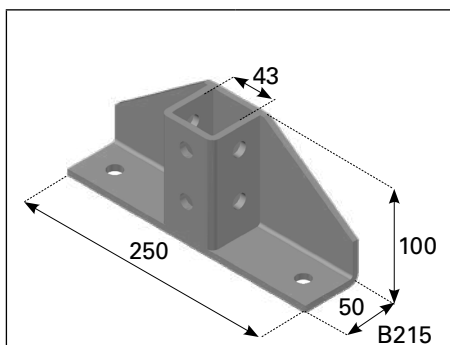


B213

Peso Weight	
1,65 Kg	
LB213	LB213-INOX
LB213-E	LB213-A4

Piastre

Piastre per il collegamento dei profili serie K realizzate con fori diam. 14 mm
- S235JR : piatto mm 6x40
- inox 304 o 316 : piatto mm 5x40



Peso **Weight**

1,65 Kg

LB215

LB215-INOX

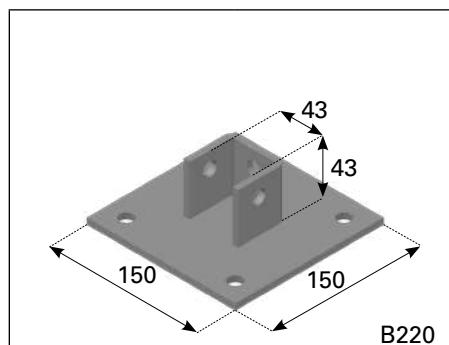
LB215-E

LB215-A4

Plates

Plates for connecting the K's anchor channels series made with holes diam. 14 mm:

- S235JR steel plate mm 6x40
- A2 or A4 steel plate mm 5x40



Peso **Weight**

1,33 Kg

LB220

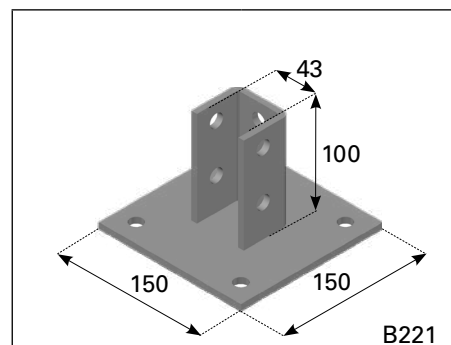
LB220-INOX

LB220-E

LB220-A4



Codici - Code	
Zincato a caldo Hot Dip Galv.	Inox 304 - A2
Zinc elettrolitico Electrolytic Galv.	inox 316-A4



Peso **Weight**

1,96 Kg

LB221

LB221-INOX

LB221-E

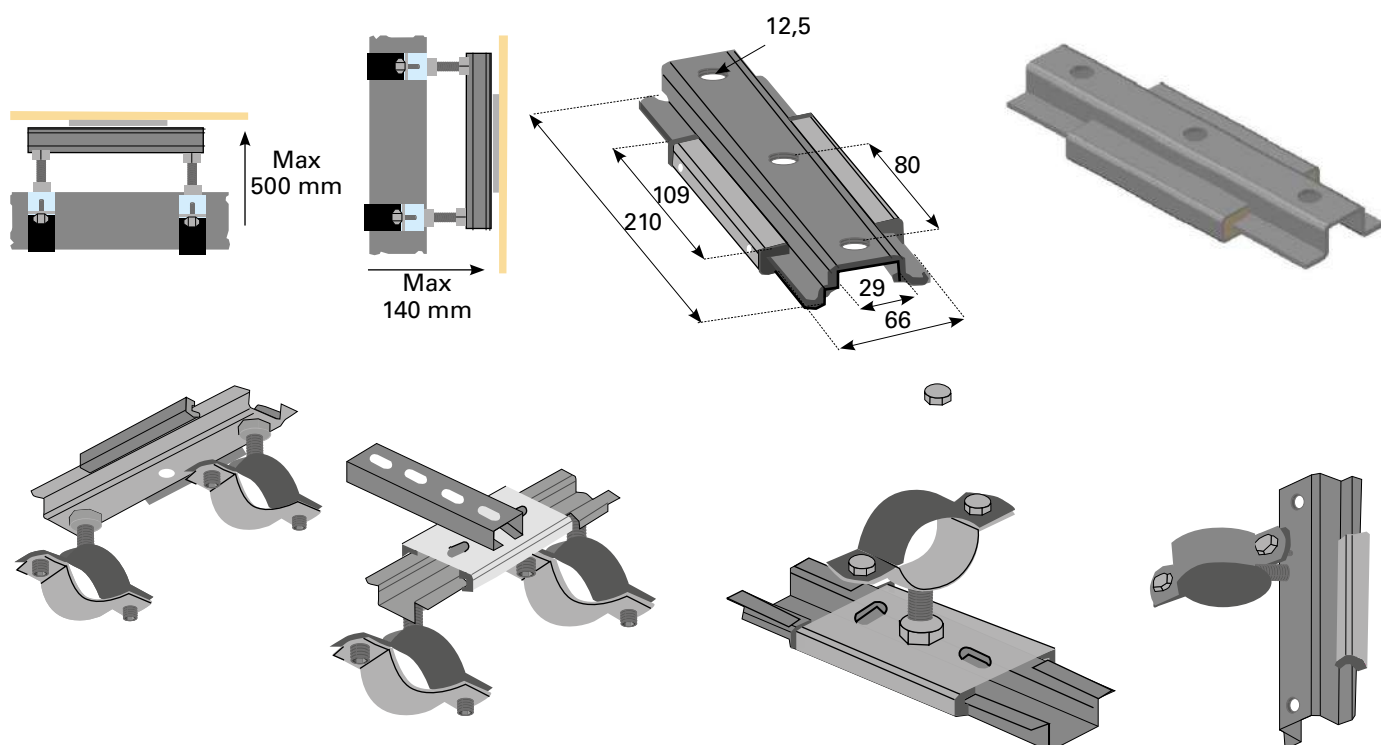
LB221-A4

Slitta scorrevole LFSG2

Slitta in acciaio S235JR UNI EN 10025
zincato con guida di scorrimento in
poliammide con fibra di vetro

LFSG2 slide guide

Carbon steel S235JR UNI EN 10025
galvanized, with slide guide in
polyamide with fibreglass



Slitta di scorrimento / Slide guides							
Elettrolitica	Lung. di scorrimento	Attacco	Temperatura	N° attacchi	Carico max deformazione	Carico Soffitto / pavimento	Carico Parete
Electr. Galv.	Sliding length	Connection	Range of temp	N° connection	Max sliding load	Ceiling/floor	Wall load
	mm	M	°C	N°	Kgf	Kgf	Kgf
LFSG2	140	M10 / M 12	-30 / 120	singolo/doppio single/double	500	130	100

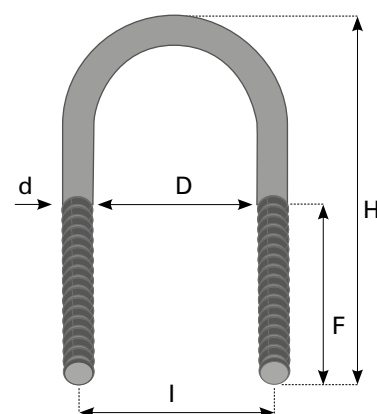
Cavallotti Leggeri

Cavallotti in acciaio
S235JR UNI EN 10025
zincato elettrolitico UNI 3740/6 µm 12
I cavallotti sono forniti completi di
2 rondelle e di 2 dadi disassemblati

Light U-bolt

U-Bolts:
S235JR steel UNI EN 10025
electrolytic galvanized UNI 3740/6 µm 12
The U-bolts are supplied with 2 washer
and 2 nuts each

Cavallotti Leggeri / Light U- Bolt								
Zinc.Elett. Electro Galv.	Tubo Pipe	D	d	F	H	I	Peso Weight	Confezione Packing
	"	mm	MA	mm	mm	mm	Kg./100	pz.
LZL009	1/8"	11	M06	19	36	17	10	500
LZL010	1/4"	14	M06	19	39	20	10,5	500
LZL011	3/8"	18	M06	19	42	24	11,2	500
LZL01	1/2"	22	M06	25	48	28	12,4	500
LZL02	3/4"	27	M06	25	52	33	13,5	500
LZL03	1"	34	M06	25	60	40	14,9	500
LZL04	1" 1/4	43	M06	25	68	49	16,8	500
LZL05	1" 1/2	49	M08	30	80	57	14,4	200
LZL06	2"	61	M08	30	92	69	16,4	200
LZL07	2" 1/2	77	M08	30	108	85	9,5	100
LZL08	3"	89	M08	30	120	97	10,4	100
LZL0R	3" 1/2	102	M08	35	137	110	11,7	100
LZL09	4"	115	M08	35	149	123	12,7	100
LZL10	5"	140	M08	35	176	148	14,8	100
LZL11	6"	168	M10	45	211	178	14,2	50
LZL13	8"	220	M10	45	263	230	17,4	50
LZL13/1	10"	274	M10	45	317	284	20,9	50
LZL14	12"	324	M16	60	383	340	13,4	10
LZL16	14"	356	M16	60	415	372	14,5	10
LZL17	16"	408	M16	60	467	424	16,2	10



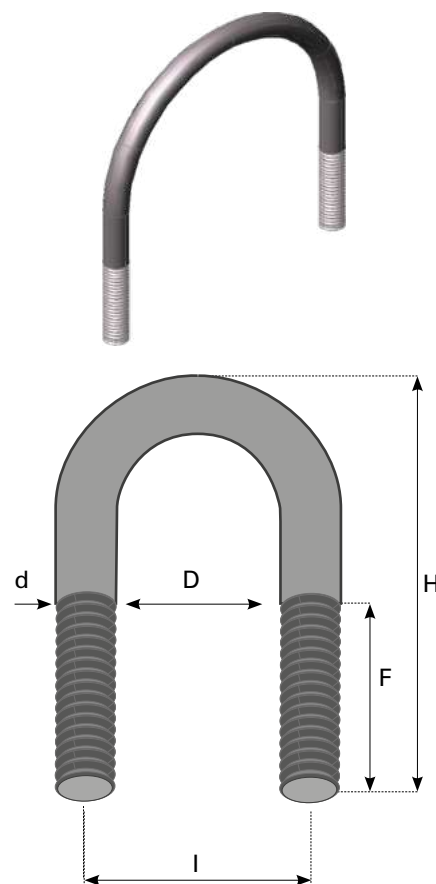
Cavallotti Medi

Cavallotti acciaio
S235JR UNI EN 10025
zincato elettrolitico UNI 3740/6 µm 12
I cavallotti sono forniti completi di
2 rondelle e di 2 dadi disassemblati

Medium U-bolt

U-Bolts:
S235JR steel UNI EN 10025
electrolytic galvanized UNI 3740/6 µm 12
The U-bolts are supplied with 2 washer
and 2 nuts each

Cavallotti Medi / Medium U-bolt								
Zinc.Elett. Electro Galv.	Tubo Pipe	D	d	F	H	I	Peso Weight	Confezione Packing
	"	mm	MA	mm	mm	mm	Kg./100	pz.
LZM01	1/2"	22	M08	30	59	30	10,8	200
LZM02	3/4"	27	M08	30	63	35	11,5	200
LZM03	1"	34	M08	30	71	42	12,7	200
LZM04	1" 1/4	43	M08	30	79	51	14,1	200
LZM05	1" 1/2	49	M10	40	91	59	13,2	100
LZM06	2"	61	M10	40	103	71	14,6	100
LZM07	2" 1/2	77	M10	40	119	87	16,8	100
LZM08	3"	89	M10	40	131	99	18,3	50
LZM09	3" 1/2	102	M12	50	153	114	15,1	50
LZM10	4"	115	M12	50	167	127	16,3	50
LZM11	5"	140	M12	50	191	152	18,6	50
LZM12	6"	168	M12	50	219	180	21,2	50
LZM13	8"	220	M16	60	282	236	24,8	25
LZM14	10"	274	M16	60	336	290	29,4	10
LZM15	12"	324	M20	70	397	344	10,8	5
LZM16	14"	356	M20	70	429	376	11,6	5
LZM17	16"	408	M20	70	481	428	13	5
LZM18	18"	460	M20	70	533	480	14,4	5
LZM20	20"	510	M20	70	583	530	15,7	5
LZM24	24"	612	M20	70	685	632	18,3	5



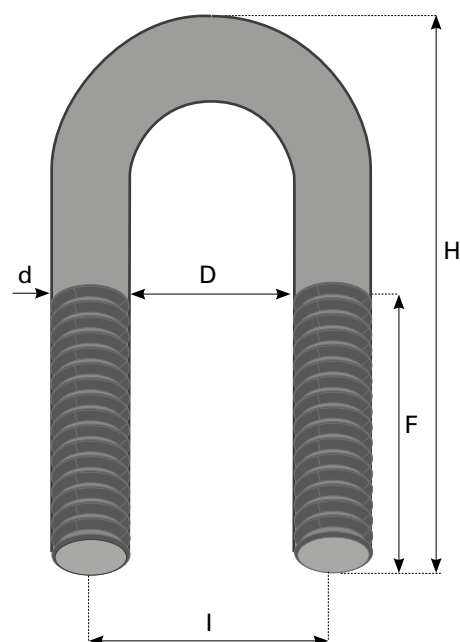
Cavallotti Pesanti

Cavallotti acciaio S235JR-UNI EN 10025
 zincato elettrolitico UNI 3740/6 µm 12
 I cavallotti sono forniti completi di
 2 rondelle e di 2 dadi disassemblati

Heavy U-bolt

U-Bolts: S235JR steel - UNI EN 10025
 electrolytic galvanized UNI 3740/6 µm 12
 The U-bolts are supplied with
 2 washer and 2 nuts each not assembled

Cavallotti Pesanti / Heavy U-bolt								
Zinc.Eletttr. Electr. Galv.	Tubo Pipe	D	d	F	H	I	Peso Weight	Confezione Packing
	"	mm	MA	mm	mm	mm	Kg./100	pz.
LZP01	1/2"	22	M10	40	69	32	10,3	100
LZP02	3/4"	27	M10	40	75	37	11	100
LZP03	1"	34	M10	40	81	44	11,8	100
LZP04	1" 1/4	43	M10	40	91	53	13	100
LZP05	1" 1/2	49	M12	60	111	61	11	50
LZP06	2"	61	M12	60	123	73	12	50
LZP06A	2" 1/2	77	M12	60	139	89	13,5	50
LZP08	3"	89	M12	60	151	101	14,7	50
LZP07	3" 1/2	102	M16	70	174	118	15,3	25
LZP09	4"	115	M16	70	188	131	16,6	25
LZP10	5"	140	M16	70	212	156	18,7	25
LZP11	6"	168	M16	70	240	184	21,1	25
LZP12	8"	220	M20	80	303	240	16,5	10
LZP13	10"	274	M20	80	357	294	19,3	10
LZP14	12"	324	M24	90	418	348	15,9	5
LZP15	14"	356	M24	90	450	380	17,1	5
LZP16	16"	408	M24	90	502	432	19	5
LZP17	18"	460	M24	90	554	484	20,9	5
LZP18	20"	510	M24	90	604	534	22,7	5
LZP20	24"	612	M24	90	706	636	26,5	5



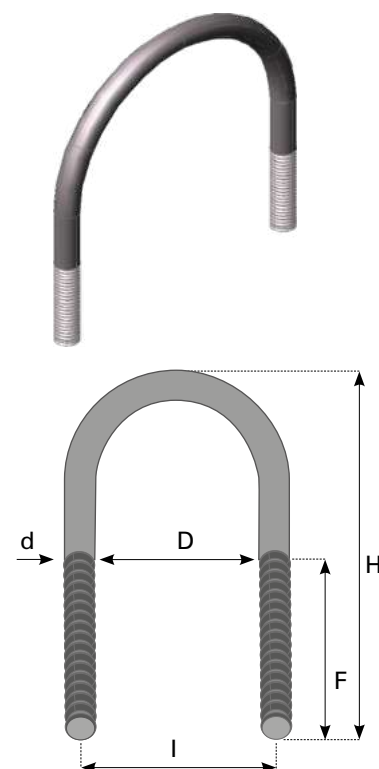
Cavallotti Leggeri Inox Aisi 304

Cavallotti leggeri inox AISI 304
 I cavallotti sono forniti completi di
 2 rondelle e di 2 dadi disassemblati

A2 Stainless steel light U-bolt

Stainless steel A2 u-bolt
 The U-bolts are supplied with 2 washer
 and 2 nuts each not assembled

Cavallotti Leggeri inox 304 / A2 Light U- Bolt								
Aisi 304 A2	Tubo Pipe	D	d	F	H	I	Peso Weight	Confezione Packing
	"	mm	MA	mm	mm	mm	Kg./100	pz.
LIL001	1/8"	11	M06	16	34	17	3,9	200
LIL002	1/4"	14	M06	16	37	20	4,1	200
LIL003	3/8"	18	M06	16	41	24	4,4	200
LIL01	1/2"	22	M06	18	45	28	4,7	200
LIL02	3/4"	27	M06	18	50	33	5,2	200
LIL03	1"	34	M06	18	57	40	5,8	200
LIL04	1" 1/4	43	M06	18	66	49	6,6	200
LIL05	1" 1/2	49	M08	28	77	57	7	100
LIL06	2"	61	M08	28	89	69	8	100
LIL07	2" 1/2	77	M08	28	105	85	9,3	100
LIL08	3"	89	M08	28	117	97	10,2	100
LIL09	3" 1/2	102	M08	35	134	110	11,5	100
LIL13	4"	115	M08	35	146	123	12,5	100
LIL14	5"	140	M08	35	172	148	14,5	100
LIL15	6"	168	M10	45	205	178	13,9	50
LIL16	8"	220	M10	45	257	230	17,2	50
LIL17	10"	274	M10	45	311	284	20,6	50



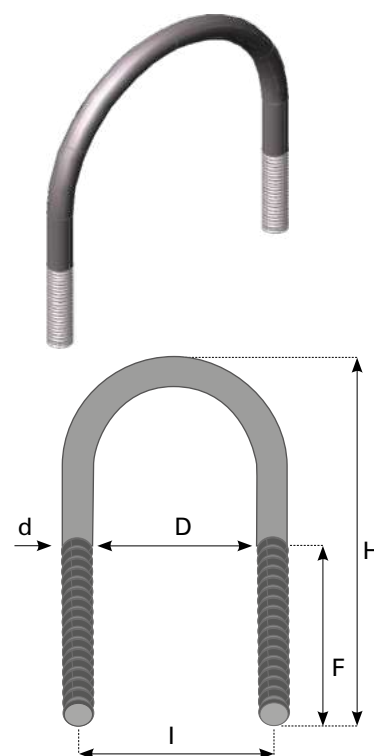
Cavallotti Leggeri Inox Aisi 316

Cavallotti leggeri inox AISI 316
 I cavallotti sono forniti completi di
 2 rondelle e di 2 dadi disassemblati

A4 Stainless steel light U-bolt

Stainless steel A4 u-bolt
 The U-bolts are supplied with 2 washer
 and 2 nuts each not assembled

Cavallotti Leggeri inox 316 / A4 Light U- Bolt								
Aisi 316 A4	Tubo Pipe	D	d	F	H	I	Peso Weight	Confezione Packing
	"	mm	MA	mm	mm	mm	Kg./100	pz.
LYM01	1/2"	22	M08	25	55	30	10,3	200
LYM02	3/4"	27	M08	25	59	35	11	200
LYM03	1"	34	M08	25	67	42	12,2	200
LYM04	1" 1/4	43	M08	25	75	51	13,6	200
LYM05	1" 1/2	49	M10	36	87	59	12,8	100
LYM06	2"	61	M10	36	99	71	14,2	100
LYM07	2" 1/2	77	M10	36	115	87	16,4	100
LYM08	3"	89	M10	36	127	99	17,9	100



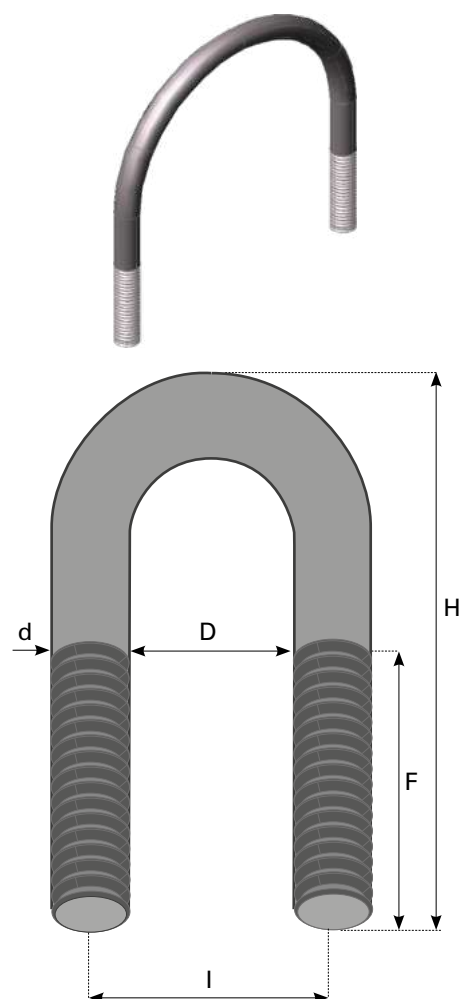
Cavallotti Pesante inox aisi 304

Cavallotti leggeri inox AISI 304
I cavallotti sono forniti completi di
2 rondelle e 2 dadi disassemblati

A2 Stainless steel Heavy U-bolt

Stainless steel A2 u-bolt
The U-bolts are supplied with
2 washer and 2 nuts each not assembled

Cavallotti Pesanti / Heavy U-bolt								
AISI 304 A2	Tubo Pipe	D	d	F	H	I	Peso Weight	Confezione Packing
	"	mm	MA	mm	mm	mm	Kg./100	pz.
LIP01	1/2"	22	M08	25	55	30	10,3	200
LIP02	3/4"	27	M08	25	59	35	11	200
LIP03	1"	34	M08	25	67	42	12,2	200
LIP04	1" 1/4	43	M08	25	75	51	13,6	200
LIP05	1" 1/2	49	M10	36	87	59	12,8	100
LIP06	2"	61	M10	36	99	71	14,2	100
LIP06A	2" 1/2	77	M10	36	115	87	16,4	100
LIP08	3"	89	M10	36	127	99	17,9	100
LIP08A	3" 1/2	102	M12	45	148	114	14,8	50
LIP09	4"	115	M12	45	162	127	16	50
LIP10	5"	140	M12	45	186	152	18,3	50



Collari semplici Simple Pipe ring

Collare semplice

Simple clamp

Collare in acciaio carbonio zincato completo di viti testa esagonale con taglio a croce

Clamp zinc plated mild steel bolts completed



Collare Semplice / Simple clamp					
Zinc.Elettrolitica	Ø DN	Ø est. tubo	Ø Attacco filettato	Sez. del collare	Confezione
Electrolytic Galv.	Ø ND	Ø est. pipe	Ø Threaded nut	Clamp section	Packing
	Ø	mm		mm	n°
LP120/01B	3/8"	16-18	M 8	20x2,5	100
LP120/02B	1/2"	20-22	M 8	20x2,5	100
LP120/03B	3/4"	26-29	M 8	20x2,5	100
LP120/04B	1"	32-35	M 8	20x2,5	100
LP120/05B	1" 1/4	39-43	M 8	20x2,5	100
LP120/06B	1" 1/2	46-49	M 8	20x2,5	100
LP120/07B	2"	58-61	M 8	20x2,5	50
LP120/09B	2" 1/2	73-76,5	M 10	30x2,5	50
LP120/10B	3"	86-89	M 10	30x2,5	50
LP120/11B	4"	110-115	M 10	30x2,5	50
LP120/12B	5"	140	M 10	30x2,5	50

Collare semplice con tassello

Simple clamp with dowels and screw

Collare in acciaio carbonio zincato completo di viti testa esagonale con taglio a croce

Clamp zinc plated mild steel bolts completed



Collare Semplice con vite e tassello in nylon Simple clamp with nylon dowels and screw						
Zinc.Elettrolitica	Ø DN	Ø est. tubo	Ø Attacco filettato	Sez. collare	Tassello	Confezione
Electrolytic Galv.	Ø ND	Ø est. pipe	Ø Threaded nut	Clamp sect.	Dowel	Packing
	Ø	mm		mm	mm	n°
LP120/01A	3/8"	14-18	M 8	20x2,5	30+60	100
LP120/02A	1/2"	20-25	M 8	20x2,5	30+60	100
LP120/03A	3/4"	26-30	M 8	20x2,5	30+60	100
LP120/04A	1"	31-38	M 8	20x2,5	30+60	100
LP120/05A	1" 1/4	40-47	M 8	20x2,5	30+60	100
LP120/06A	1" 1/2	46-53	M 8	20x2,5	30+60	100
LP120/07A	2"	58-63	M 8	20x2,5	30+60	100
LP120/09A	2" 1/2	72-80	M 10	30x2,5	30+90	100
LP120/10A	3"	80-92	M 10	30x2,5	30+90	100
LP120/11A	4"	110-115	M 10	30x2,5	30+90	50
LP120/12A	5"	140	M 10	30x2,5	30+90	50

Collare semplice inox A4 Pipe ring

Collare semplice inox 316

Collare in acciaio inox AISI 316
completo di viti inox M6 e rondelle in
plastica preassemblate

Carico max 2 kN
Carico di rottura 6 kN

A4 Stainless steel clamps

Stainless steel clamp A4 completed
with preassembled
plastic washers

Max load 2 kN
Bracking load 6 kN

Collare Semplice / Simple clamp					
Aisi 316	Ø DN	Ø est. tubo	Ø Attacco filettato	Sez. del collare	Confezione
A4	Ø ND	Ø est. pipe	Ø Threaded nut	Clamp section	Packing
	"	mm		mm	n°
L130018	3/8"	15-18	M8-M10	20x2,0	50
L130022	1/2"	20-24	M8-M10	20x2,0	50
L130028	3/4"	26-30	M8-M10	20x2,0	50
L130035	1"	32-36	M8-M10	20x2,0	50
L130040	1" 1/4	38-42	M8-M10	20x2,0	25
L130048	1" 1/2	47-50	M8-M10	20x2,0	25
L130060	2"	60-64	M8-M10	20x2,0	25
L130075	2" 1/2	75-80	M8-M10	20x2,0	25
L130090	3"	87-92	M8-M10	20x2,0	25
L130100	3" 1/2	100-103	M8-M10	20x2,0	25
L130115	4"	114-119	M8-M10	20x2,0	25
L130140	5"	133-140	M8-M10	20x2,0	25
L130160	6"	159-165	M8-M10	20x2,0	25
L130220	8"	215-225	M8-M10	20x2,0	25



Collare leggero per tubo in polietilene

Collari in acciaio carbonio zincato completi di viti testa esagonale con taglio a croce.

Light clamps polyet. pipe

Clamps zinc plated mild steel bolts completed



Collare leggero per tubi in polietilene /Light clamp for polyethylene pipes					
Zinc.Elettrolitica	Ø DN	Ø est. tubo	Ø Attacco filet.	Sez. del collare	Confezione
Electrolytic Galv.	Ø ND	Ø est. pipe	Ø Threaded nut	Clamp section	Packing
	Ø	mm		mm	n°
LP120/14B	40	M 10	20x2,7	0,13	100
LP120/15B	50	M 10	20x2,7	0,15	100
LP120/08B	75	M 10	30x2,7	0,19	100
LP120/16B	90	M 10	30x2,7	0,21	100
LP120/17B	100	M 10	30x2,7	0,23	100
LP120/18B	125	M 10	30x2,7	0,29	50
LP120/12B	140	M 10	30x2,7	0,33	50
LP120/13B	160	M 10	30x2,7	0,37	50
LP120/19B	200	M 10	30x2,7	0,45	50

Collare leggero per tubi in polietilene /Light clamp for polyethylene pipes					
Zinc.Elettrolitica	Ø DN	Ø est. tubo	Ø Attacco filet.	Sez. del collare	Conf.
Electrolytic Galv.	Ø ND	Ø est. pipe	Ø Threaded nut	Clamp section	Pack.
	Ø	mm		mm	n°
LP120/14A	40	M 10	20x2,7	0,13	100
LP120/15A	50	M 10	20x2,7	0,15	100
LP120/08A	75	M 10	30x2,7	0,19	100
LP120/16A	90	M 10	30x2,7	0,21	100
LP120/17A	100	M 10	30x2,7	0,23	100
LP120/18A	125	M 10	30x2,7	0,29	50
LP120/12A	140	M 10	30x2,7	0,33	50
LP120/13A	160	M 10	30x2,7	0,37	50
LP120/19A	200	M 10	30x2,7	0,45	50



Collare leggero per tubo in polietilene

Collari in acciaio carbonio zincato completi di viti testa esagonale con taglio a croce

Light clamps polyet. pipe

Clamps zinc plated mild steel bolts completed



GAS



Collare per tubi in polietilene / Clamp for polyethylene pipes						
Zinc.Elettrolitica	Tubo	Ø est. tubo	Att. Gas	Sez. coll.	Peso/pezzo	Conf.
Electrolytic Galv.	Pipe	Ø est. pipe	Gas conn.	Clamp sect.	Weigh/piece	Pack.
	mm	mm	"	mm	Kg	n°
LP122/01	40	43	1/2"	30x2,5	0,14	50
LP122/02	50	53	1/2"	30x2,5	0,16	50
LP122/03	56	59	1/2"	30x2,5	0,17	50
LP122/04	63	66	1/2"	30x2,5	0,19	25
LP122/05	75	78	1/2"	30x2,5	0,21	25
LP122/06	90	93	1/2"	30x2,5	0,35	25
LP122/07	110	113	1/2"	30x2,5	0,41	25
LP122/08	125	128	1/2"	30x2,5	0,43	25
LP122/09	140	143	1/2"	30x2,5	0,78	25
LP122/10	160	163	1/2"	30x2,5	0,88	25
LP122/11	200	203	1"	40x4	1,03	10
LP122/12	220	223	1"	40x4	1,24	10
LP122/13	250	253	1"	40x4	1,4	10
LP122/14	315	318	1"	40x4	1,85	10
LP122/15	400	403	1"	40x4	1,95	10

Collari attacco rapido

Rapid pipe ring

Collari con gomma leggero attacco rapido

Collare con gomma in acciaio S235JR zincato elettrolitico, completo di viti esagonali con croce sulla testa M6, e rondelle in plastica.
 Isolamento acustico DIN 4109 realizzato in EPDM
 riduzione del rumore 18 DB (A).

Temperatura del fluido :
 da -40°C a +110 °C
 Carico max 1,2 kN,
 Carico di rottura 3,6 kN

Light clamp with rubber

Rubber clamp in S235JR steel, electrolycal galvanized, with hexagonal head M6, with cross on the head, and plastic washer.
 Acoustic isolation DIN 4109 in EPDM, noise reduction to 18 DB (A).

Fluid temperature :
 from -40°C to +110 °C
 Max load 1,2 kN
 Breaking 3,6 kN



Collare con gomma leggero attacco rapido / Light clamp with rubber

Tubo Tube	PE	Altri Other			
	PE	Other			
Zinc.Elettrolitica Electrolytic Galv.	Ø DN Ø ND	Ø est. tubo Ø est. pipe	Ø Attacco filet. Ø Threaded nut	Sez. del collare Clamp section	Confezione Packing
	"	mm	mm	mm	n°
L132015	1/4"	12-16	M 8/10	20x1,25	50
L132018	3/8"	15-19	M 8/10	20x1,25	50
L132022	1/2"	20-24	M 8/10	20x1,25	50
L132028	3/4"	25-28	M 8/10	20x1,25	50
L132035	1"	31-35	M 8/10	20x1,25	50
L132039	1"	36-39	M 8/10	20x1,25	50
L132042	1" 1/4	40-45	M 8/10	20x1,25	50
L132048	1" 1/2	48-52	M 8/10	20x1,25	50
L132058	1" 1/2	54-58	M 8/10	20x1,25	50
L132060	2"	60-64	M 8/10	20x1,25	50
L132070	2"	66-70	M 8/10	20x1,5	50
L132075	2" 1/2	75-79	M 8/10	20x1,5	50
L132083	2" 1/2	80-83	M 8/10	20x1,5	50
L132090	3"	88-91	M 8/10	20x1,5	25
L132100	3" 1/2	100-105	M 8/10	20x1,5	25
L132115	4"	108-118	M 8/10	20x1,5	25
L132130	4"	125-130	M 8/10	20x1,5	25
L132140	5"	133-140	M 8/10	20x1,5	25
L132160	5"	152-160	M 8/10	23x2	25
L132169	6"	165-169	M 8/10	23x2,5	10

Collare medio con gomma

Mean rubber pipe ring

Collari con gomma medio

Collare con gomma in acciaio S235JR zincato elettrolitico, completo di viti esagonali con croce sulla testa M6 e rondelle in plastica.
Isolamento acustico DIN 4109 realizzato in EPDM,
riduzione del rumore 18 DB (A).

Temperatura del fluido:
da -40°C a +110 °C
Carico max 2 kN
Carico di rottura 6 kN

Mean rubber pipe rings

Rubber clamp in S235JR steel, electrolycal galvanized, with hexagonal head M6, with cross on the head, and plastic washer.
Acoustic isolation DIN 4109 in EPDM, noise reduction to 18 DB (A).

Fluid temperature:
from -40°C to +110 °C
Max load 2 kN
Breaking load 6 kN



Collare con gomma medio / Mean clamp with rubber					
					
Tubo	PE	Altri			
Tube	PE	Other			
Zinc.Elettrolitica	Ø DN	Ø est. tubo	Ø Attacco filet.	Sez. del collare	Confezione
Electrolytic Galv.	Ø ND	Ø est. pipe	Ø Threaded nut	Clamp section	Packing
	"	mm	mm	mm	n°
L115018	3/8"	15-19	M 8 / M 10	20x2	50
L115022	1/2"	20-25	M 8 / M 10	20x2	50
L115028	3/4"	26-30	M 8 / M 10	20x2	50
L115035	1"	32-36	M 8 / M 10	20x2	50
L115040	1" 1/4	38-45	M 8 / M 10	20x2	25
L115048	1" 1/2	47-51	M 8 / M 10	20x2	25
L115060	2"	60-64	M 8 / M 10	20x2	25
L115075	2" 1/2	74-80	M 8 / M 10	20x2	25
L115090	3"	87-92	M 8 / M 10	20x2	25
L115100	3" 1/2	99-105	M 8 / M 10	20x2,5	25
L115115	4"	113-118	M 8 / M 10	20x2,5	25
L115140	5"	138-142	M 8 / M 10	20x2,5	25
L115160	6"	159-166	M 8 / M 10	20x2,5	25
L115220	8"	215-220	M 8 / M 10	20x2,5	25
L115250	10"	249-254	M 8 / M 10	20x2,5	25
L115300	12"	299-304	M 8 / M 10	20x2,5	25
L115400	16"	399-404	M 8 / M 10	20x2,5	25
L115500	20"	499-504	M 8 / M 10	20x2,5	25
L115600	24"	599-604	M 8 / M 10	20x2,5	25

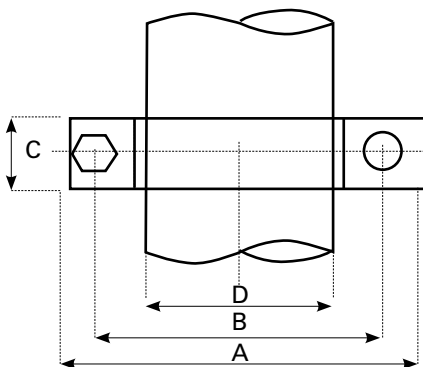
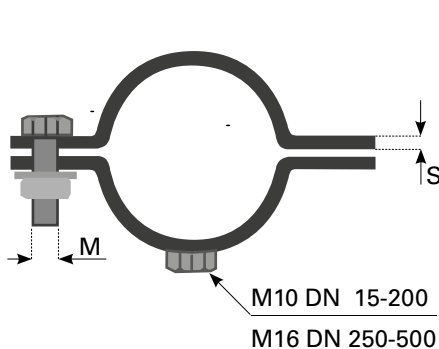
Collare pesante Heavy pipe ring

Collare pesante

Collare in acciaio S235JR zincato elettrolitico, completo di viti con testa esagonale tutto filetto e dadi per la chiusura.

Heavy clamp

Clamp in S235JR steel, electrolytically galvanized, hexagonal-head all threaded screw and nut for close clamp



Collare pesante/ Heavy clamp										
Zinc.Elettrolitica Electrolytic Galv.	Ø	Ø DN Ø ND	A	B	C	D	M	dado nut	S	Confezione Packing
	"	mm	mm	mm	n°					
LC2D-15	1/2"	15	76,5	51,5	25	21,5	6	M 10	3	50
LC2D-20	3/4"	20	82	57	25	27	6	M 10	3	50
LC2D-25	1"	25	88,5	63,5	25	33,5	6	M 10	3	50
LC2D-32	1" 1/4	32	97,5	72,5	25	42,5	6	M 10	3	25
LC2D-40	1" 1/2	40	103,5	78,5	25	48,5	6	M 10	3	25
LC2D-50	2"	50	115,5	90,5	25	60,5	6	M 10	3	25
LC2D-65	2" 1/2	65	131	106	25	76	6	M 10	3	10
LC2D-80	3"	80	144	119	25	89	6	M 10	3	10
LC2D-100	4"	100	194,5	164,5	40	114,5	8	M 10	4	10
LC2D-125	5"	125	219,5	189,5	40	139,5	8	M 10	4	10
LC2D-150	6"	150	248,5	218,5	40	168,3	8	M 10	4	1
LC2D-200	8"	200	299	269	40	219,1	8	M 10	4	1
LC2D-250	10"	250	370	340	40	273	8	M 16	4	1
LC2D-300	12"	300	450	400	60	323,9	12	M 16	8	1
LC2D-350	14"	350	480	430	60	355,6	12	M 16	8	1
LC2D-400	16"	400	530	480	60	406,4	12	M 16	8	1
LC2D-500	20"	500	635	585	60	508	12	M 16	8	1

Collare con gomma pesante Heavy pipe ring with rubber

Collari con gomma pesante

Collare in acciaio S235JR zincato elettrolitico, completo di dadi per la chiusura.
Isolamento acustico in neoprene antisciacchiamento.

Temperatura del fluido:
da -30°C a +100 °C

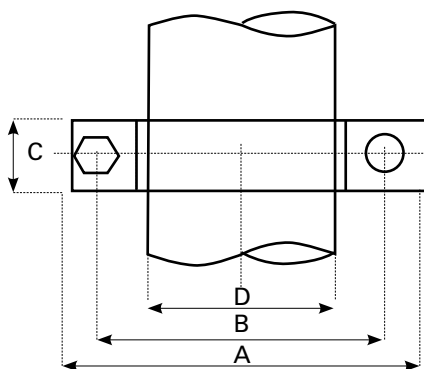
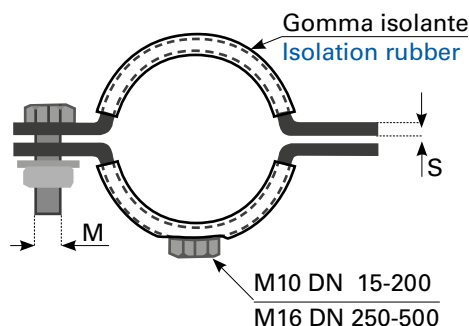
Su richiesta: zincati a caldo

Heavy clamp with rubber

Clamp in S235JR steel, electrolytically galvanized, with hexagonal head all threaded screw and nut for clamp.
Acoustic isolation in neoprene, no crush.

Fluid temperature:
from -30°C to +100 °C

On demand: H.D.G.



Collare con gomma pesante/ Heavy clamp with rubber

Zinc. Elettrolitica Electrolytic Galv.	Ø	Ø DN Ø ND	A	B	C	D	M	dado nut	S	Confezione Packing
	"	mm	mm	mm	n°					
LC2DG-15	1/2"	15	82,5	57,5	25	21,5	6	M 10	3	50
LC2DG-20	3/4"	20	88	63	25	27	6	M 10	3	50
LC2DG-25	1"	25	94,5	69,5	25	33,5	6	M 10	3	50
LC2DG-32	1" 1/4	32	103,5	78,5	25	42,5	6	M 10	3	25
LC2DG-40	1" 1/2	40	109,5	84,5	25	48,5	6	M 10	3	25
LC2DG-50	2"	50	121,5	96,5	25	60,5	6	M 10	3	25
LC2DG-65	2" 1/2	65	137	112	25	76	6	M 10	3	10
LC2DG-80	3"	80	150	125	25	89	6	M 10	3	10
LC2DG-100	4"	100	203,5	173,5	40	114,5	8	M 10	4	10
LC2DG-125	5"	125	228,5	198,5	40	139,5	8	M 10	4	10
LC2DG-150	6"	150	257,5	227,5	40	168,3	8	M 10	4	1
LC2DG-200	8"	200	308	278	40	219,1	8	M 10	4	1
LC2DG-250	10"	250	370	340	40	273	8	M 16	4	1
LC2DG-300	12"	300	450	400	60	323,9	12	M 16	8	1
LC2DG-350	14"	350	480	430	60	355,6	12	M 16	8	1
LC2DG-400	16"	400	530	480	60	406,4	12	M 16	8	1
LC2DG-500	20"	500	635	585	60	508	12	M 16	8	1

Collari con gomma inox A4 Pipe ring with rubber

Collari con gomma inox 316

Collare in acciaio inox 316, completo di viti con testa esagonale con croce sulla testa inox M6 e rondelle in plastica. Isolamento acustico DIN 4109 realizzato in EPDM
riduzione del rumore 18 DB (A).

Temperatura del fluido:
da -40°C a +110 °C
Carico max 2 kN
Carico di rottura 6 kN

A4 stainless steel clamp with rubber

Stainless steel A4 clamp with stainless steel hexagonal head M6, with cross on the head, and plastic washer. Acoustic isolation DIN 4109 in EPDM, noise reduction to 18 DB (A).

Fluid temperature:
from -40°C to +110 °C
Max load 2 kN
Braking load 6 kN



Collare con gomma inox 316 / Clamp with rubber A4					
Aisi 316	Ø DN	Ø est. tubo	Ø Attacco filettato	Sez. del collare	Confezione
A4	Ø ND	Ø est. pipe	Ø Threaded nut	Clamp section	Packing
	"	mm		mm	n°
L137018	3/8"	15-18	M 8	20x2,0	50
L137022	1/2"	20-24	M 8	20x2,0	50
L137028	3/4"	26-30	M 8	20x2,0	50
L137035	1"	32-36	M 8	20x2,0	50
L137040	1" 1/4	38-42	M 8	20x2,0	25
L137048	1" 1/2	47-50	M 8	20x2,0	25
L137060	2"	60-64	M 8	20x2,0	25
L137075	2" 1/2	75-80	M 8	20x2,0	25
L137090	3"	87-92	M 8	20x2,0	25
L137100	3" 1/2	100-103	M 10	20x2,0	25
L137115	4"	114-119	M 10	20x2,0	25
L137140	5"	133-140	M 10	20x2,0	25
L137160	6"	159-165	M 10	20x2,0	25
L137220	8"	215-225	M 10	20x2,0	25

Tassello doppio filetto per collare Double threaded fastening for pipe clamp

Il vitone è fornito completo di tassello in nylon e dado (non assemblato)

The big screw is supplied with nylon anchor and nut(not assembled)

Tassello doppio filetto per collare Double threaded fastening for pipe clamp					
Zinc.Elettrolitica	Vite	Filetto	Filetto Legno	Peso	Confezione
Electrolytic Galv.	Screw	Thread	Wood thread	Weight	Packing
	"	mm	mm	mm	mm
LP120-V8+T	M 8x90	30	60	0,24	50
LP120-V10+T	M 10x120	30	90	0,24	25



Collari Pipe ring

Collari per profili

Collari per fissaggio rapido di tubi ai profili serie K

Su richiesta in acciaio zincato a caldo

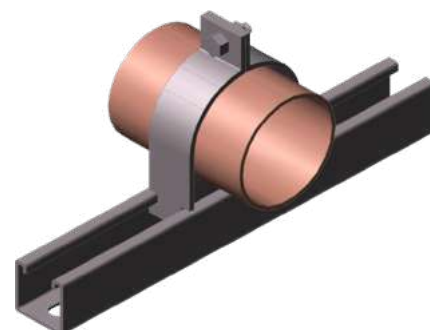
Clamps for channel

Clamps to enable a fast connection with the type K channels

Also available H.D.G.



Collare per profili / Clamp for channel					
Zinc.Elettrolitica	Ø DN	Ø est. tubo	Ø Vite di chiusura	Peso	Confezione
Electrolytic Galv.	Ø ND	Ø est. pipe	Ø Set screw on the top	Weight	Packing
	"	mm		Kg/100	n°
LP101/06	3/8"	14-16	M 6x25	6,1	100
LP101/07	1/2"	20-22	M 6x25	6,49	100
LP101/09	3/4"	26-30	M 6x25	7,2	100
LP101/10	1"	31-35	M 6x25	8,8	100
LP101/12	1" 1/4	40-45	M 8x25	10,4	100
LP101/13	1" 1/2	45-50	M 8x25	15,5	100
LP101/16	2"	60-65	M 8x25	16,6	50
LP101/19	2" 1/2	75-80	M 8x25	18,3	50
LP101/21	3"	85-90	M 8x25	20,5	50
LP101/24	3" 1/2	100-105	M 8x25	28,9	50
LP101/26	4"	110-120	M 8x25	34,1	50
LP101/29	5"	140-150	M 8x25	39,6	50
LP101/31	6"	160-170	M 8x25	45,3	50

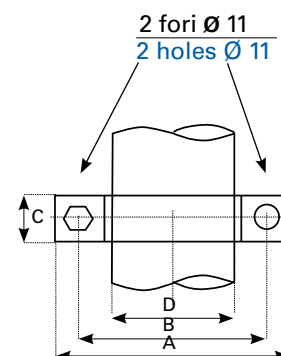
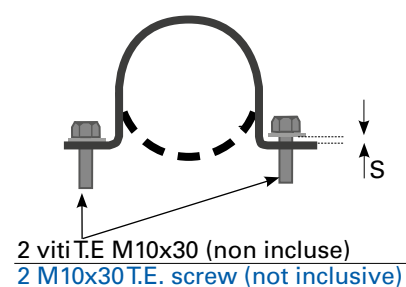


Collari Pipe ring

Collari a staffa

Saddle clamps

Collare a staffa / Saddle clamp							
Zinc.Elettrolitica Electrolytic Galv.	Ø DN Ø ND	Tubo Pipe	A	B	C	H	S
	"	mm	mm	mm	mm	mm	mm
LP103/1A	1/2"	15	86,5	61,5	30	19,5	3
LP103/2A	3/4"	20	92	67	30	25	3
LP103/3	1"	25	98,5	73,5	30	31,5	3
LP103/4A	1" 1/4	32	107,5	82,5	30	40,5	3
LP103/5A	1" 1/2	40	113,5	88,5	30	46,5	3
LP103/6A	2"	50	125,5	100,5	30	58,5	3
LP103/7A	2" 1/2	65	141	116	30	74	3
LP103/8-A	3"	80	154	129	30	87	3
LP103/9	4"	100	194,5	164,5	40	113,5	4
LP103/10A	5"	125	219,5	189,5	40	138,5	4
LP103/11A	6"	150	248,5	218,5	40	167,5	4
LP103/13A	8"	200	299	269	40	218	4



Collari a pera Strap hangers

Collare a pera

Collare per la sospensione d'impianti
Sprinkler antincendio in acciaio S235JR
zincato UNI EN10142 - μm 19-21
Fornito zincato e completo di dado

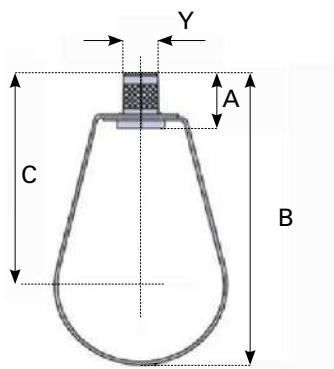
Su specifica richiesta dal SPH025 al
SPH100 è possibile avere il dado M 8

Strap hangers

Hangers suitable to bear fire-fighting
Sprinkler systems in steel S235JR
sendzimir galvanized
UNI EN10142 μm 19-21
It is supplied galvanized and equipped
with the nut.

From SPH025 to SPH 100 on request
also available M 8 nut.

Collare a pera / Strap Hangers							
Zinc.Elettrolitica	Ø DN	Tubo	A	B	C	dado	Foro y
Electrolytic Galv.	Ø ND	Pipe				nut	Y
	"	mm	mm	mm	n°		
LSH025N+DADO	1"	25	22	75	57,5	10 (8)	11
LSH032N+DADO	1"1/4	32	22	86	64	10 (8)	11
LSH040N+DADO	1"1/2	40	22	99	74	10 (8)	11
LSH050N+DADO	2"	50	22	116	85	10 (8)	11
LSH065N+DADO	2"1/2	65	22	135	96,5	10 (8)	11
LSH080N+DADO	3"	80	22	159	114	10 (8)	11
LSH100N+DADO	4"	100	22	219	161	10 (8)	11
LSH125N+DADO	5"	125	26,5	247	177	12	13
LSH150N+DADO	6"	150	26,5	284	199,5	12	13
LSH200N+DADO	8"	200	24	373	261	16	18



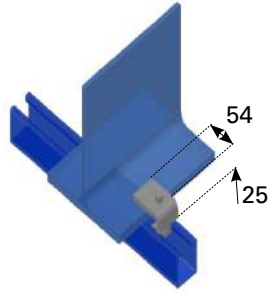
Morsetti LB

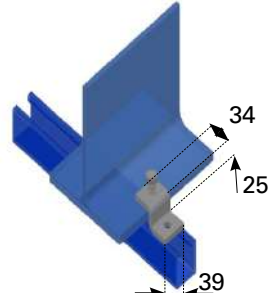
Completo di cavallotto M8 con dadi

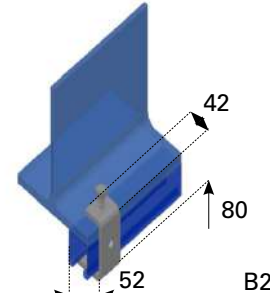
LB clamps

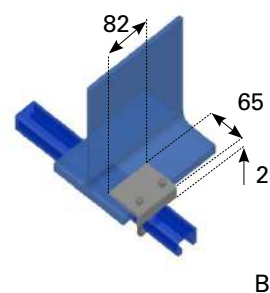
Equipped with M8 Ubolt with nuts

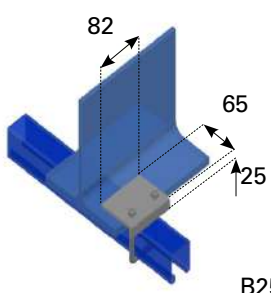
Codici - Code	
Zinc elettrolitico Electrolytic Galv.	
Zincato a caldo Hot galv.	

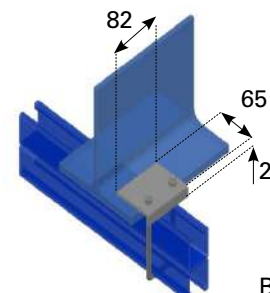
 B251	
Peso Weight	11,60 Kg/100
Materiali esclusi vite TE M12x40 e dado VM4	
Not included TE M12x40 screw and VM4 nut	
Spessore 5 mm Thickness	
LB251-E	
LB251	

 B253	
Peso Weight	16,00 Kg/100
Materiali esclusi vite a punta conica M 10x40	
Not included M 10x40 screw with conical tip	
Spessore 5 mm Thickness	
LB253-E	
LB253	

 B254	
Peso Weight	40,00 Kg/100
Materiali esclusi vite a punta conica M 10x40	
Not included M 10x40 screw with conical tip	
Spessore 5 mm Thickness	
LB254-E	
LB254	

 B252/21	
Peso Weight	39,35 Kg/100
Carico consentito Recommended load	4,41 kN 450 Kgf
Profilo K2 Channel	
Spessore 4 mm Thickness	
LB252/21-E	
LB252/21	

 B252/41	
Peso Weight	40,35 Kg/100
Carico consentito Recommended load	4,41 kN 450 Kgf
Profilo K1 Channel	
Spessore 4 mm Thickness	
LB252/41-E	
LB252/41	

 B252/82	
Peso Weight	42,75 Kg/100
Carico consentito Recommended load	4,41 kN 450 Kgf
Profilo K1D Channel	
Spessore 4 mm Thickness	
LB252/82-E	
LB252/82	

LE

acciaio S235JR EN 10025
 zincato elettrolitico ISO2081 - μm 12
 S235JR steel EN 10025
 Hot Dip electrolytic galvanized ISO2081 - μm 12

LC

acciaio S235JR EN 10025
 zincato a caldo ISO1461 - $\geq \mu\text{m}$ 55
 S235JR steel EN 10025 Hot Dip
 Galvanized ISO1461 - $\geq \mu\text{m}$ 55

Morsetti LFL

Morsetto per la sospensione d'impianti alle ali di travi in acciaio tipo IPE, HEA o IPN

Viene fornito completo di bullone di serraggio e controdado
I carichi espressi hanno coefficiente di sicurezza = 4 allo snervamento

Materiale

Morsetto: ghisa malleabile zincata elettrolitica

Bullone: vite e dado in acciaio 8.8 zincato elettrolitico

LFL Clamps

Clamp suitable for the suspension of systems to the flanges of steel beams IPE, HEA or IPN

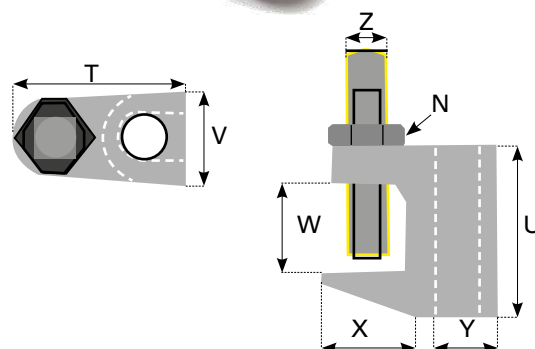
It is equipped with clamping bolt and locknut.

Loads shown have a factor of safety of 4 at yielding point

Materials

Clamp: malleable iron zinc Plated

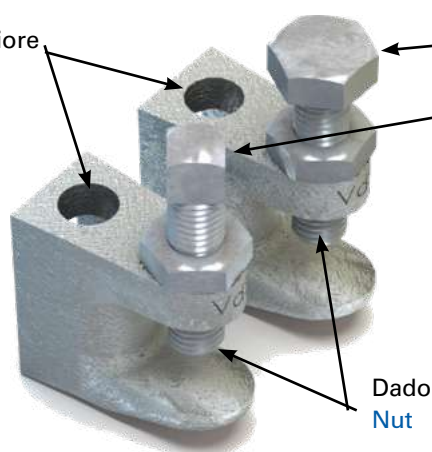
Bolt: screw class 8.8 steel, locknut class 8 steel zinc plated



Morsetto FL Clamp												
Zinc.Elettrolitica	Liscio o Filettato	Barra filettata	Coppia di serraggio				Dimensioni					Resistenza a trazione
Electrolytic Galv.	Smooth or threaded	Studding	Clamping torque Nm				Dimentions					Resistance
		mm	Vite Screw	Dado Nut	T	U	V	W	X	Y	Z	kN
LFL16D	liscio	M6	8	11	36	35	19	17	20	7	8	1,1
LFL16T	filettato	M6	8	11	36	35	19	17	20	7	8	1,1
LFL18D	liscio	M8	8	11	36	35	19	17	20	9	8	1,1
LFL18T	filettato	M8	8	11	36	35	19	17	20	9	8	1,1
LFL210D	liscio	M10	8	22	43	40	22	19	22	11	10	2,4
LFL210T	filettato	M10	8	22	43	40	22	19	22	11	10	2,4
LFL312D	liscio	M12	8	22	50	44	25	23	28	13	10	3,1
LFL312T	filettato	M12	8	22	50	44	25	23	28	13	10	3,1
LFL412D	liscio	M12	8	22	53	51	26	28	27	13	10	3,1



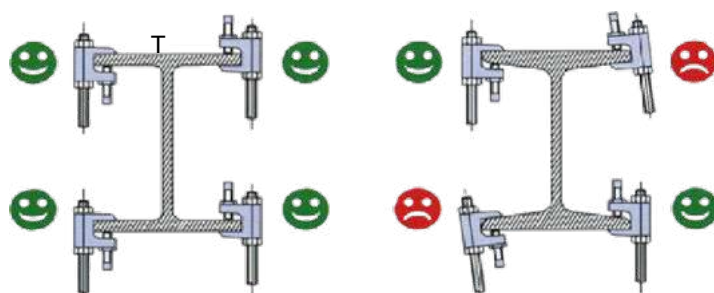
Foro posteriore
Rear hole



Vite Testa esagonale
Hexagon set screw

Vite Testa quadrata
Square Head set screw

Installazione - Installation



Tasselli in ottone

Applicazioni critiche :

sospensione con barre filettate di controsoffitti, canalizzazioni elettriche, idrauliche e di ventilazione.

Camicia : espansione interamente zigrinata per un'aderenza ottimale.

Scanalatura : fatta sul corpo per facilitare l'espansione e ridurre lo sforzo d'avvitamento.

Estremità : conica per facilitare l'inserimento nel foro.

Materiali idonei al fissaggio :

calcestruzzo, pietra e mattone pieno

Brass Dowels

Critical fixing applications :

suspension with threaded bars for false ceiling, electric pipes, hydraulic pipes, and ventilation pipes.

Sleeve : complete knurled expansion for an optimal adherence.

Groove : done on the body to facilitate the expansion and to reduce the screwing effort.

End : conic to facilitate the insertion into the hole.

Substrates materials : concrete, stone and solid brick



Tassello TO Dowel							
Zinc.Elettrolitica	Ø Ancorante	Ø Foratura	Profondità foratura	Lungh. Ancorante	Spess max	Peso a conf.	Confezione
Electrolytic Galv.	Ø Drill	Ø Hole	Min. hole dept	Length drill	Piece thickness	Packing weight	Packing
	mm	mm	mm	mm	mm	Kg	N°
LNT0625	6	8	30	24	0	0,9	300
LNT0830	8	10	38	31	0	1,2	200
LNT01035	10	12	39	34	0	2,7	100
LNT01240	12	15	46	41	0	2,4	50

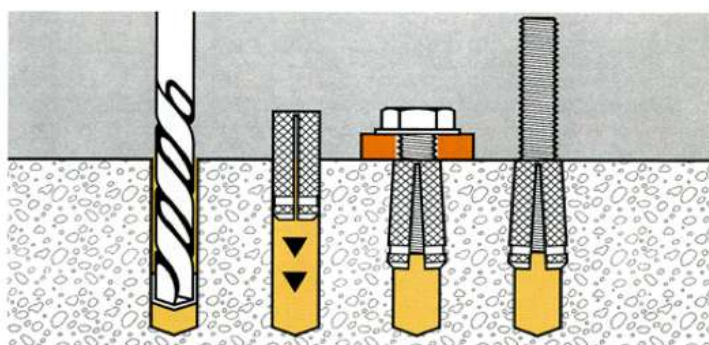
Carichi raccomandati in CLS C20/25 compresso

Recommended load in compressed concrete C20/25

40	60
Kg	Kg
M6	M8



Installazione - Installation



Tasselli TS

Applicazioni critiche :

T93: barre filettate per sospensioni e fissaggi a sbalzo per facciate

T91: fissaggio di carpenterie leggere su calcestruzzo e muratura, fissaggio di scafalature, cancelli, antenne paraboliche, corpi illuminanti

Camicia : espansione di alto spessore per prestazioni elevate nel calcestruzzo ed alta affidabilità nei forati.

Espansore : a 4 segmenti con profilo antirotazione

Vite : TE cl 8.8 zincatura galvanica 5 micron

Materiali idonei al fissaggio :

Calcestruzzo compresso, pietra e mattone pieno, mattone pieno intonacato e blocchetto forato.

Prodotti CE solo a richiesta

TS Dowels

Critical fixing application:

T 93: threaded bars for suspension and embossed fixing facades

T 91: Soft carpentry fixing on concrete and brickwork, stirrup fixing, gates, satellite dish and luminaries

Sleeve : high thickness expansion for high performance in concrete and high reliability on perforated brickwork

Expander : 4 segments with anti rotation profile

T-bolt : screws in cl 8.8 , zinc coated 5 micron

Substrates materials : compressed concrete, stone, solid brick, plastered brick and Cement block.

CE products on request



Tassello TS Dowel							
Zinc.Elettrolitica	Ø Ancorante	Ø Foratura	Profondità foratura	Lungh. Ancorante	Spessore	Peso/conf.	Confezione
Electrolytic Galv.	Ø Drill	Ø Hole	Min. hole dept	Length drill	Thickness	Pack./weight	Packing
	mm	mm	mm	mm	mm	Kg	N°
T9304-S	6	10	55	45	0	0,9	100
T9303-S	8	12	60	50	0	1,5	100
T9301-S	10	15	75	60	0	1,45	50
T9302-S	12	18	90	74	0	1,05	25
Con Vite Testa esagonale e rondella				With Hexagon Headed screw			
T9108-S	6	10	55	45	5	1,2	50
T9100-S	8	12	60	50	10	2,23	50
T9101-S	10	15	75	60	20	2,27	25
T9102-S	12	18	90	74	25	2,95	20

Calcestruzzo compresso	Pietra	Mattone pieno	Mattone pieno intonacato	Blocchetto forato
Compressed concrete	Stone	Brick	Plastered brick	Cement block

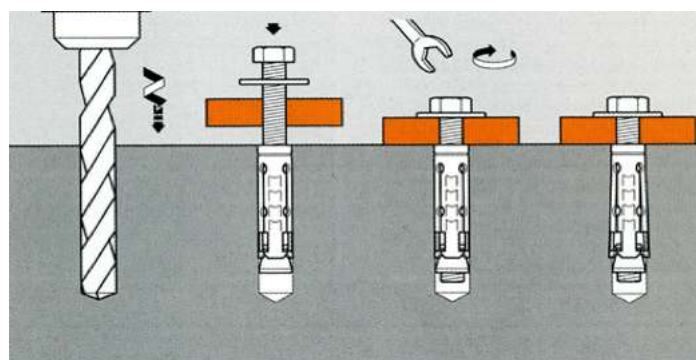


Carichi raccomandati in CLS C20/25 compresso

Recommended load in compressed concrete C20/25

250	400	600	750
Kg	Kg	Kg	Kg
M6	M8	M10	M12

Installazione - Installation



Tasselli P

Applicazioni critiche :

Sospensioni con barre filettate per controsoffitti, canalizzazioni elettriche, idrauliche e di ventilazione.
Fissaggi di parti removibili, fissaggi con viti speciali con carattere estetico.

Materiale : Acciaio al carbonio, con zincatura galvanica 5 micron

Ancorante : Ridotta profondità d'ancoraggio per salvaguardare i ferri d'armatura

Materiali idonei al fissaggio:

Calcestruzzo compresso e pietra

Marchio qualità: Conforme al Benestare Tecnico Europeo Opzione 7 massimo livello d'opzione per zone compresse di calcestruzzo e prova di resistenza al fuoco.

P Dowels

Critical fixing application:

suspension with threaded bars for : false ceiling, electric pipes, hydraulic pipes, and ventilation pipes.
Fixing removable parts , fixing with special screws with aesthetic character

Material: carbon steel , zinc coated 5 micron

Metal anchor: limited anchoring depth by no touch concrete steel arm

Substrates materials: concrete, stone

Approvals Quality: conforming to the European Technical Approval option 7 maximum level of option for stressed concrete areas and fire resistance test.



Benestare Tecnico Europeo
Opzione 7 per calcestruzzo non fessurato

European Technical Approval
Option 7 for non-cracked concrete



Tassello TP Dowel								
Zinc.Elettrolitica	Ø Filettatura	Ø Lung.filett.	Ø Ancorante	Ø Foratura	Lungh. Ancorante	Spess max fissabile	Peso a conf.	Confezione
Electrolytic Galv.	Ø Thread	Ø Thread lenght	Ø Drill	Ø Hole	Length drill	Fixable thickness	Packing weight	Packing
	mm	mm	mm	mm	mm	mm	Kg	N°
T9504-S	M6	13	8	8	32	30	0,85	100
T9503-S	M8	13	10	10	32	30	1,3	100
T9501-S	M10	15	12	12	42	40	2,36	100
T9502-S	M12	18	15	15	53	50	2,35	50
T9505-S	M16	23	20	20	70	65	2,22	20

Carichi raccomandati in CLS C20/25 compresso

Recommended load in compressed concrete C20/25

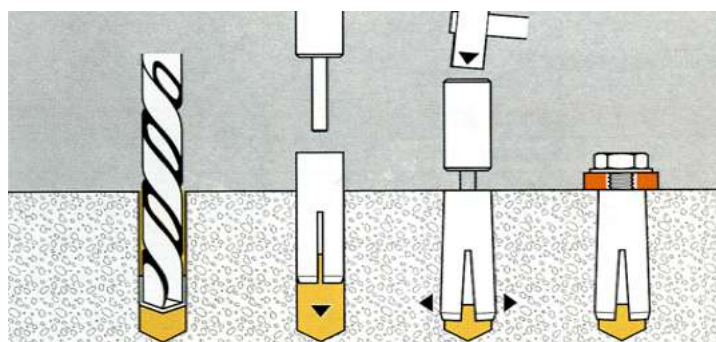
340 Kg M6	370 Kg M8	580 Kg M10	1.040 Kg M12	1.180 Kg M16
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Calcestruzzo compresso
Compressed concrete

Pietra
Stone



Installazione - Installation



Tasselli TCM2

Applicazioni critiche:

Carpenterie metalliche, staffaggi, guide di ascensori, supporti per canalizzazioni elettriche ed impianti, scaffalature industriali

Materiale: Acciaio stampato a freddo, cl. 6.8, con zincatura galvanica 5 micron e rondella larga

Ancorante: ad espansione per avvitamento per fissaggio in zone compresse del calcestruzzo

Camicia: con tre alette e bugne per una espansione ottimale sul calcestruzzo

Materiali idonei al fissaggio:

Calcestruzzo compresso e pietra

Marchio qualità: conforme al Benestare Tecnico Europeo **Opzione 7:** Massimo livello d'opzione per zone compresse di calcestruzzo e prova di resistenza al fuoco.

TCM2 Dowels

Critical fixing applications:

Metallic carpentry, stirrup, lift guide rails, support for electric pipes and system, industrial shelves, storage system.

Material: cold printed steel cl 6.8 Zinc coated 5 micron and washer

Metal anchor: self expanding screwing to fix in stressed concrete areas.

Sleeve: sleeve with 3 legs to distribute the expansion stress on the whole cone

Substrates materials: compressed concrete, stone

Approvals Quality: conforming to the European Technical **Approval option 7:** maximum level of option for stressed concrete areas and fire resistance test.



Benestare Tecnico Europeo
Opzione 7 per calcestruzzo non fessurato

European Technical Approval
Option 7 for non-cracked concrete

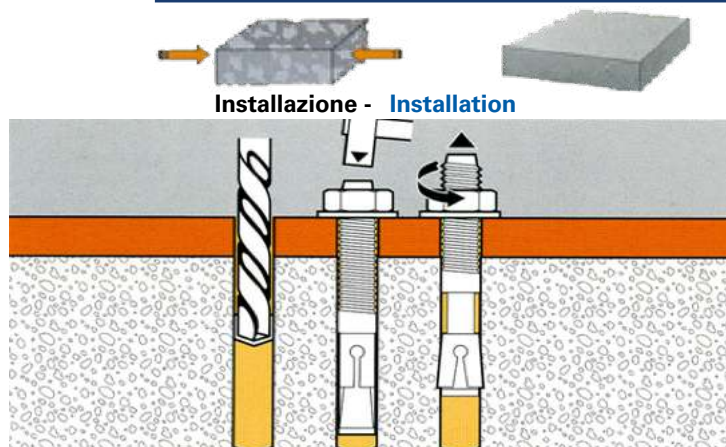
Tassello TCM2 Dowel							
Zinc.Elettrolitica Electrolytic Galv.	Ø Ancorante Ø Drill	Ø Foratura Ø Hole	Profondità foratura Min. hole dept	Lungh.Anc. Length drill	Spess fissabile Fixable thick.	Peso a conf. Pack.weight	Confezione Packing
	mm	mm	mm	mm	mm	Kg	N°
TCM2-08-5/55	8	8	52	55	5	2,63	100
TCM2-08-70/20	8	8	52	70	20	3	100
TCM2-08-40/90	8	8	52	90	40	3	100
TCM2-10-5/65	10	10	62	65	5		100
TCM2-10-15/75	10	10	62	75	15	5,45	100
TCM2-10-35/95	10	10	62	95	35	3,7	100
TCM2-1225/100	12	12	75	100	25	2	50
TCM2-1265/140	12	12	75	140	65	6,39	50
TCM2-165/100	16	16	95	100	5	1,05	25
TCM2-1630/125	16	16	95	125	30	1,25	25
TCM2-1675/170	16	16	95	170	75		10
TCM2-2010/120	20	20	110	120	10		10
TCM2-20-50/16	20	20	110	160	50		10

Carichi raccomandati in CLS C20/25 compresso

Recommended load in compressed concrete C20/25

270 Kg M6	610 Kg M8	850 Kg M10	1.260 Kg M12	1.720 Kg M16	2.400 Kg M 20
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Calcestruzzo compresso Concrete concrete	Pietra Stone
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Ancorante chimico Bonded anchors

GLR410 GREEN

Cartuccia di resina da 410 ml
Ancorante chimico di alta qualità a base di resina poliestere per fissaggi sicuri ad elevate prestazioni ed impermeabili all'acqua.
Può essere utilizzato anche in ambienti chiusi perché non contiene stirene ed è privo di additivi o solventi dannosi per l'ambiente e l'utilizzatore.
Non ha effetti espansivi consentendo il fissaggio in vicinanza ai bordi.
Non cambia la colorazione del supporto.
E' adatto anche per riparazioni o come adesivo per componenti in calcestruzzo
Tempo di scadenza : 18 mesi dalla data di produzione.

Applicazioni : Indicato per ancoraggi di carichi medi e pesanti su supporti compatti e forati
Su supporti forati utilizzabile con bussole a rete in polipropilene e metalliche.

Fornitura :
CMA410 =1 cartuccia + 1 miscelatore

Marchio qualità: conforme al Benestare Tecnico Europeo **Opzione 7:**
Massimo livello d'opzione per zone compresse di calcestruzzo e prova di resistenza al fuoco.

GLR410 bonded anchor

Resin cartridge from 410 ml
High quality bonded anchor based on polyester resin, suited for a safety fixing with high performances and water impermeable joint.
It can be used in closed spaces because it is styrene free and it is without additives or solvents dangerous for environment and user.
No expansion effect, allowing fixing close to the edges.
It does not modify the external appearance of the support.
It is also suitable as a repair resin or adhesive resin for concrete components
Storage life : 18 month from production date

Applications : It is indicated for fixing medium and heavy loads on solid and hollow supports: application on wood and metal carpentry, perforated sleeve and propylene brush.

Forniture :
GLR410 =1 cartridge + 1 static mixer

Approvals Quality : conforming to the European Technical **Approval option 7.** maximum level of option for stressed concrete areas and fire resistance test



Benestare Tecnico Europeo
Opzione 7 per calcestruzzo non fessurato

European Technical **Approval**
Option 7 for non-cracked concrete

Temperatura	Temperature
Resistente fino a +80 °C ; per brevi periodi fino a +120 °C	Resistant up to +80°C; for short periods up to +120°C
Applicazione ideale + 20°C	Ideal application + 20°C
Stoccaggio fra +5°C e +25°C	Storage temperature from +5°C to +25°C

Tempi di posa Installation time and temperature		
Temperatura supporto Temperature of base material	Tempo di lavorabilità Setting time	Applicazioni del carico Use time
-5 ÷ 0 °C		
0 ÷ 5 °C		
5 ÷ 10 °C	25 min	120 min
10 ÷ 20 °C	15 min	80 min
20 ÷ 30 °C	6 min	45 min
30 ÷ 35 °C	4 min	25 min
> 35 °C	2 min	20 min

Calcestruzzo Concrete	CLS cellulare Light concrete	Pietra Stone	Mattone Pieno Solid brick	Mattone forato Hollow brick	Mattone semipieno semi-solid brick
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I valori sono riferiti ad ancoranti installati rispettando le distanze indicate in tabella. E' possibile l'impiego dell'ancorante chimico MA410 GREEN PLUS anche quando non siano rispettate queste distanze (distanza ridotta dal bordo e interasse ridotto fra gli ancoranti); ovviamente si avranno riduzioni dei valori di carico in ragione delle variazioni dei parametri d'installazione.
Per il calcolo di ancoraggi certificati fare riferimento all'Annex C dell'ETAG 001 o al Report Tecnico 029 (emesso dall' EOTA)

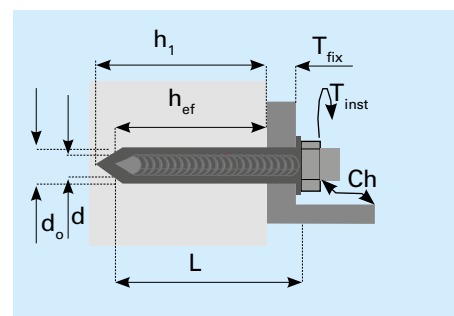
The values indicated refer to anchors installed at distances compatible with the indications of the table.
MA410 GREEN PLUS can be used even if the table distances are not respected (reduced distance from the edge and reduced anchors spacing); the load values will be reduced accordingly.
For the detailed calculation of certified fixing use the method outlined in Annex C dell'ETAG 001 or Technical Report 029 (both issued by EOTA)

Applicazioni

Applications

Caratteristiche Geometriche di posa su calcestruzzo Geometrical installation data on concrete		M8	M10	M12	M16	M20	M24
Diametro foro Drill hole diameter	Do mm	10	12	14	18	24	28
Profondità foro Depth of drill hole	hef mm	80	90	110	125	170	210
Distanza critica dal bordo Edge distance	Ccr,N mm	80	90	110	125	170	210
Distanza minima dal bordo Minimum edge distance	Cmin mm	40	50	60	80	100	120
Interasse critico Characteristic spacing	Scr,N mm	160	180	220	250	340	420
Interasse minimo Minimum spacing	Smin mm	40	50	60	80	100	120
Spessore minimo supporto Min.thickness of support el.	hmin mm	110	120	140	160	215	260
Coppia di serraggio Tightening torque	TinstNm	10	20	40	60	120	150

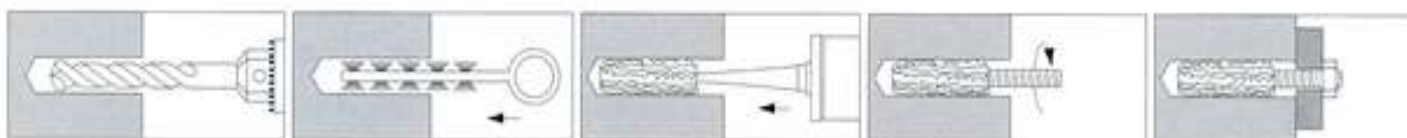
Valori di resistenza a trazione ed a taglio su calcestruzzo C ≥ 20/25 Values for tension loads and share on concrete C ≥ 20/25		M8	M10	M12	M16	M20	M24
(1 KN = 100 Kg)							
Trazione Tension load	NRk (KN)	16	29	35	50	75	95
	NRd (KN)	8,9	16,1	19,4	27,8	41,7	52,8
Coeff. di sicurezza Safety factor acc. To ETAG		Y Mp	1,8	1,8	1,8	1,8	1,8
Taglio Share loads	Acciaio 5.8 Steel 5.8	VRk, (KN)	9	15,8	22,9	43,2	67,5
		VRd (KN)	72	12,6	18,3	34,6	54
		Y Mp (Nm)	1,25	1,25	1,25	1,25	1,25
		VRk, (KN)	13	20	30	55	86
Coeff. di sicurezza Safety factor acc. To ETAG	acciaio inox A4	VRd (KN)	8,3	12,8	19,2	35,3	55,1
		Y Ms	1,56	1,56	1,56	1,56	1,56



Calcestruzzo Concrete	CLS cellulare Light concrete	Pietra Stone
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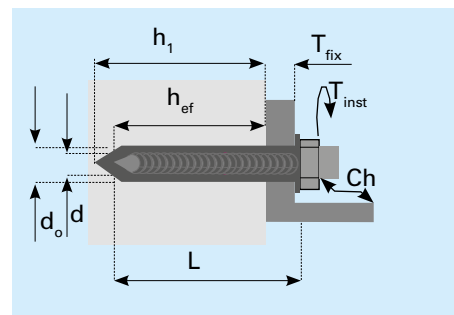
Benestare Tecnico Europeo
Opzione 7 per calcestruzzo non fessurato
European Technical Approval
Option 7 for non-cracked concrete



Applicazioni Applications

Ancorante chimico Bonded anchors

Caratteristiche geometriche di posa su muratura Geometrical installation data on masonry		Bussole standard Standard sleeve			
		M6	M8	M10	M12
Interasse fra gruppi di ancoranti Spacing plugs group	scr, N mm	matteone/brick = 100 blocchetti CLS/concrete brick = 200			
Interasse minimo fra gruppi di ancoranti Minimum spacing plugs group	smin mm	matteone/brick = 50 blocchetti CLS/concrete brick = 200			
Interasse fra singoli ancoranti Spacing between single plugs	ssing mm	250	250	250	250
Distanza critica dal bordo Edge distance	ccr, N mm	250	250	250	250
Distanza minima dal bordo Min. edge distance	cmin mm	250	250	250	250
Profondità effettiva di ancoraggio Anchorage depth	hef mm	50	85	85	85
Profondità di ancoraggio senza bussola Anchorage depth without sleeve	hef mm	60	80	90	110
Profondità foro Drilling depth	ho mm	55	90	90	90
Profondità foro senza bussola Drilling depth without sleeve	ho mm	65	85	95	115
Spessore minimo del supporto Minimum thickness of support element	hmin mm	110	110	110	25
Diametro foro Drill diameter	DO mm	12	15	15	20
Coppia di serraggio Tightening torque	Tinst Nm	3	8	8	8

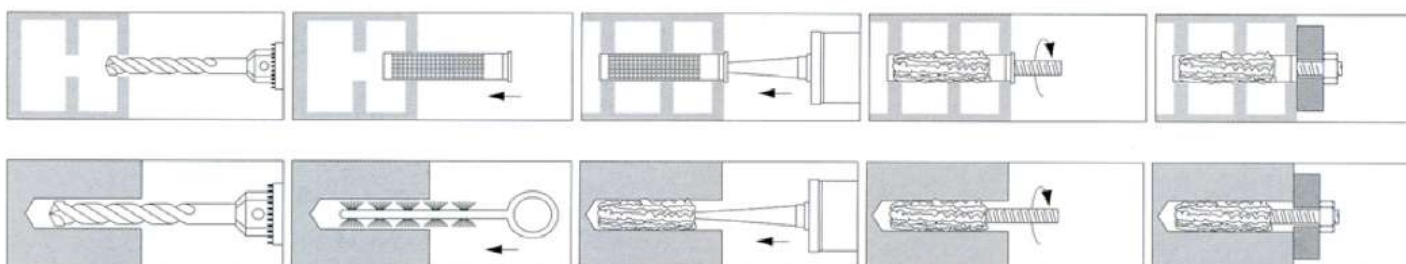


Benestare Tecnico Europeo
Opzione 7 per calcestruzzo
non fessurato

Matteone Pieno	Matteone forato	Matteone semipieno
Solid brick	Hollow brick	semi-solid brick



Valori di carico consigliati per muratura piena o forata (trazione, taglio o carico obliquo) Recommended loads for solid or hollow masonry (tension, shear or oblique load)		Bussole standard e certificate Standard and approved sleeve		
Supporto Support		M6	M8	M10
Matteone forato Hollow brick	Frec (KN)	0,3 ÷ 0,7*	0,3 ÷ 0,8*	0,3 ÷ 0,8*
Matteone pieno Solid brick	Frec (KN)	0,5	1,7	1,7
Bloc. forato in CLS leggero Light concrete hollow brick	Frec (KN)	0,3 ÷ 0,5*	0,3 ÷ 0,6*	0,3 ÷ 0,6*
Blocchetto forato in CLS Concrete hollow brick	Frec (KN)	0,5	0,6	0,6



Applicazioni

Applications



Consumi indicativi per applicazione prevedendo un riempimento del foro pari a 2/3 del suo volume
Approximate resin consumption for each application considering to fill the hole for 2/3 of its volume

Barra filettata Threaded stud	Do x h1	Quantità applicazioni su supporti forati Number of applications on solid supports				Barra filettata Threaded stud	Bussola in nylon BR Nylon net brush BR	Quantità applicazioni su supporti forati Number of applications on hollow supports			
		400 ml	300 ml	175 ml	150 ml			400 ml	300 ml	175 ml	150 ml
M 8	10x60	127	95	55	47	M 6	10x45	113	84	49	42
M 10	12x60	88	66	38	33		12x50	71	53	31	26
M 12	14x70	55	41	24	20		12x60	59	44	25	22
M 16	18x80	29	22	12	11	M 8	12x80	44	33	19	16
M 20	24x90	14	11	6	5		15x85	27	20	11	10
M 24	28x96	10	7	4	3		15x100	23	17	10	8
M 27	32x108	6	5	3	2		15x130	17	13	7	6
M30	35x120	5	3	2	2	M 10	15x85	27	20	11	10
							15x130	17	13	7	6
						M 12	20x85	15	11	6	5

Miscelatore statico in plastica

Static mixer nozzle

Pistola in nylon : per cartuccia chimica da ml. 400

Nylon dispensing gun: for bonded anchors cartridge ml. 400

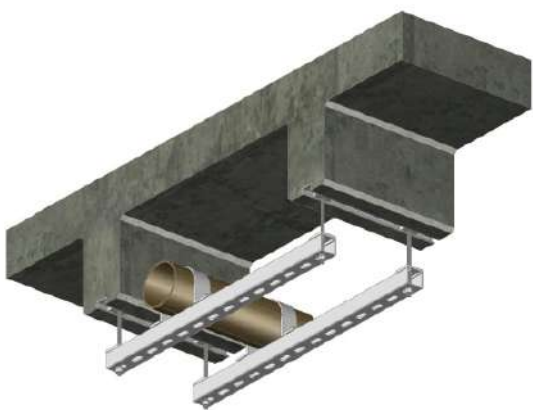
Struttura in nylon rinforzato
impugnatura centrale bilanciata

Very strong nylon structure
balanced central handgrip

Calzetta in plastica per materiali forati

Nylon net brush for hollow supports







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