

BARRE FILETTATE, DADI E RONDELLE

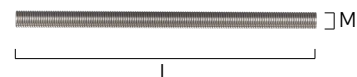
- Prodotti a filettatura metrica per realizzare collegamenti e giunzioni
- Disponibili in acciaio al carbonio e in acciaio inossidabile di tipo austenitico A2 per applicazioni all'esterno (SC3) fino ad 1 km dal mare e su legni di classe T4

MGS 1000 - 4.8

BARRA FILETTATA

CODICE	barra	L [mm]	pz.
MGS10008	M8	1000	10
MGS100010	M10	1000	10
MGS100012	M12	1000	10
MGS100014	M14	1000	10
MGS100016	M16	1000	10
MGS100018	M18	1000	10
MGS100020	M20	1000	10
MGS100022	M22	1000	10
MGS100024	M24	1000	10
MGS100027	M27	1000	10
MGS100030	M30	1000	10

Classe acciaio 4.8 - elettrozincato
DIN 975

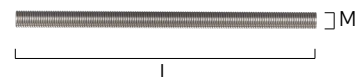


MGS 1000 - 8.8

BARRA FILETTATA

CODICE	barra	L [mm]	pz.
MGS10888	M8	1000	1
MGS11088	M10	1000	1
MGS11288	M12	1000	1
MGS11488	M14	1000	1
MGS11688	M16	1000	1
MGS11888	M18	1000	1
MGS12088	M20	1000	1
MGS12488	M24	1000	1
MGS12788	M27	1000	1

Classe acciaio 8.8 - elettrozincato
DIN 975

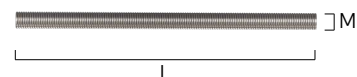


MGS 2200 - 4.8

BARRA FILETTATA

CODICE	barra	L [mm]	pz.
MGS220012	M12	2200	1
MGS220016	M16	2200	1
MGS220020	M20	2200	1

Classe acciaio 4.8 - elettrozincato
DIN 975



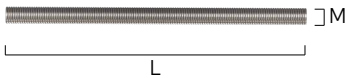
MGS AI 975

A2
AISI 304

BARRA FILETTATA

CODICE	barra	L [mm]	pz.
AI9758	M8	1000	1
AI97510	M10	1000	1
AI97512	M12	1000	1
AI97516	M16	1000	1
AI97520	M20	1000	1

Acciaio inossidabile A2-70 (A2 | AISI304)
DIN 975



VALORI STATICI BARRE MGS

RESISTENZA A TRAZIONE

					classe acciaio		
barra	d ₁ [mm]	d ₂ [mm]	p [mm]	A _{resist} [mm ²]	4.8 R _{ax,k} [kN]	8.8 R _{ax,k} [kN]	A2 R _{ax,k} [kN]
M8	8	6,47	1,25	36,6	13,2	26,4	23,1
M10	10	8,16	1,50	58,0	20,9	41,8	36,5
M12	12	9,85	1,75	84,3	30,3	60,7	53,1
M14	14	11,55	2,00	115,4	41,6	83,1	-
M16	16	13,55	2,00	156,7	56,4	112,8	98,7
M18	18	14,93	2,50	192,5	69,3	138,6	-
M20	20	16,93	2,50	244,8	88,1	176,3	154,2
M22	22	18,93	2,50	303,4	109,2	218,4	-
M24	24	20,32	3,00	352,5	126,9	253,8	-
M27	27	23,32	3,00	459,4	165,4	330,8	-
M30	30	25,71	3,50	560,6	201,8	403,6	-



I valori caratteristici sono secondo normativa EN 1993.
I valori di progetto si ricavano dai valori caratteristici come segue: $R_{ax,d} = R_{ax,k} / \gamma_{M2}$.
Il coefficiente γ_{M2} è da assumersi in funzione della normativa vigente utilizzata per il calcolo.

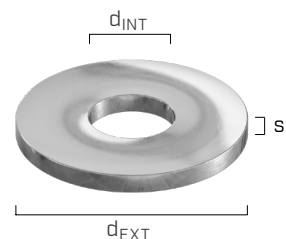
Uls 9021

RONDELLA

CODICE	barra	d _{INT} [mm]	d _{EXT} [mm]	s [mm]	pz.
ULS8242	M8	8,4	24,0	2,0	200
ULS10302	M10	10,5	30,0	2,5	200
ULS13373	M12	13,0	37,0	3,0	100
ULS15443	M14	15,0	44,0	3,0	100
ULS17503	M16	17,0	50,0	3,0	100
ULS20564	M18	20,0	56,0	4,0	50
ULS22604	M20	22,0	60,0	4,0	50

* La norma ISO 7093 differisce dalla norma DIN 9021 per la durezza superficiale.

Acciaio HV 100 - elettrozincato
DIN 9021 (ISO 7093*)

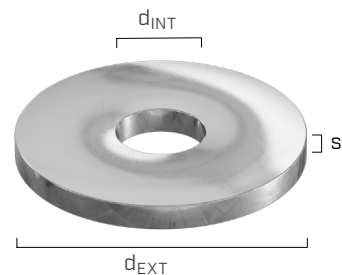


Uls 440

RONDELLA

CODICE	barra	d _{INT} [mm]	d _{EXT} [mm]	s [mm]	pz.
ULS11343	M10	11,0	34,0	3,0	200
ULS13444	M12	14,0	44,0	4,0	200
ULS17565	M16	17,0	56,0	5,0	50
ULS22726	M20	22,0	72,0	6,0	50
ULS24806	M22	24,0	80,0	6,0	25

Acciaio HV 100 - elettrozincato
DIN 440 R

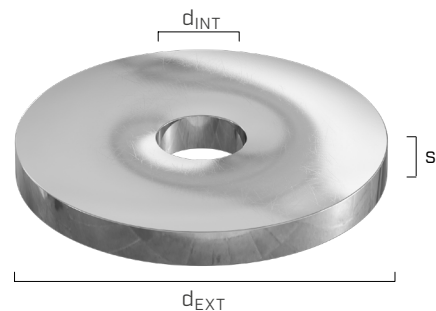


Uls 1052

RONDELLA

CODICE	barra	d _{INT} [mm]	d _{EXT} [mm]	s [mm]	pz.
ULS14586	M12	14,0	58,0	6,0	50
ULS18686	M16	18,0	68,0	6,0	50
ULS22808	M20	22,0	80,0	8,0	25
ULS25928	M22	25,0	92,0	8,0	20
ULS271058	M24	27,0	105,0	8,0	20

Acciaio HV 100-250 - elettrozincato
DIN 1052

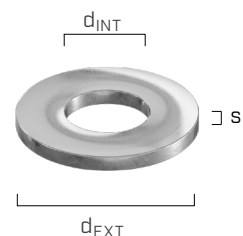


Uls 125

RONDELLA

CODICE	barra	d _{INT} [mm]	d _{EXT} [mm]	s [mm]	pz.
ULS81616	M8	8,4	16,0	1,6	1000
ULS10202	M10	10,5	20,0	2,0	500
ULS13242	M12	13,0	24,0	2,5	500
ULS17303	M16	17,0	30,0	3,0	250
ULS21373	M20	21,0	37,0	3,0	250
ULS25444	M24	25,0	44,0	4,0	200
ULS28504	M27	28,0	50,0	4,0	100
ULS31564	M30	31,0	56,0	4,0	20

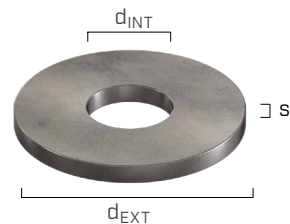
Acciaio HV 100 - elettrozincato
DIN 125 A (ISO 7089)



CODICE	barra	d _{INT} [mm]	d _{EXT} [mm]	s [mm]	pz.
AI90218	M8	8,4	24,0	2,0	500
AI902110	M10	10,5	30,0	2,5	500
AI902112	M12	13,0	37,0	3,0	200
AI902116	M16	17,0	50,0	3,0	100
AI902120	M20	22,0	60,0	4,0	50

* La norma ISO 7093 differisce dalla norma DIN 9021 per la durezza superficiale.

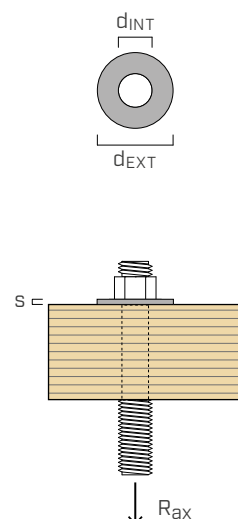
Acciaio inossidabile A2 | AISI304
DIN 9021 (ISO 7093-1*)



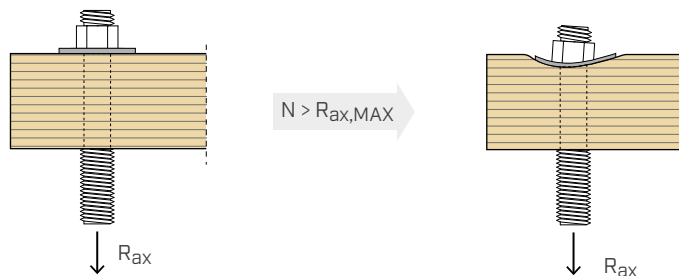
VALORI STATICI RONDELLE ULS

RESISTENZA A PENETRAZIONE NEL LEGNO

barra	norma	d _{INT} [mm]	d _{EXT} [mm]	s [mm]	R _{ax,k} [kN]
M10	ULS 9021	10,5	30,0	2,5	4,65
	ULS 440	11,0	34,0	3,0	6,10
	ULS 1052	-	-	-	-
	ULS 125	10,5	20,0	2,0	1,71
M12	ULS 9021	13,0	37,0	3,0	7,07
	ULS 440	14,0	44,0	4,0	10,25
	ULS 1052	14,0	58,0	6,0	18,66
	ULS 125	13,0	24,0	2,5	2,40
M16	ULS 9021	17,0	50,0	3,0	13,02
	ULS 440	17,0	56,0	5,0	16,77
	ULS 1052	18,0	68,0	6,0	25,33
	ULS 125	17,0	30,0	3,0	3,60
M20	ULS 9021	22,0	60,0	4,0	18,35
	ULS 440	22,0	72,0	6,0	27,69
	ULS 1052	22,0	80,0	8,0	34,85
	ULS 125	21,0	37,0	3,0	5,47
M24	ULS 9021	-	-	-	-
	ULS 440	-	-	-	-
	ULS 1052	27,0	105,0	8,0	60,65
	ULS 125	25,0	44,0	4,0	7,72



CRITICITÀ: PENETRAZIONE DELLA RONDELLA NEL LEGNO



PRINCIPI GENERALI:

- I valori caratteristici sono secondo normativa EN 1995-1-1.
- I valori di progetto si ricavano dai valori caratteristici come segue:

$$R_{ax,d} = \frac{R_{ax,k} \cdot k_{mod}}{\gamma_M}$$

I coefficienti γ_M e k_{mod} sono da assumersi in funzione della normativa vigente utilizzata per il calcolo.

- In fase di calcolo si è considerata una massa volumica degli elementi lignei pari a $\rho_k = 385 \text{ kg/m}^3$.
- La resistenza a penetrazione di una rondella è proporzionale alla sua superficie di contatto con l'elemento ligneo.

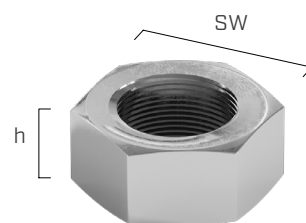
MUT 934

DADO ESAGONALE

CODICE	barra	SW [mm]	h [mm]	pz.
MUT9348	M8	13	6,5	400
MUT93410	M10	17	8,0	500
MUT93412	M12	19	10,0	500
MUT93414	M14	22	11,0	200
MUT93416	M16	24	13,0	200
MUT93418	M18	27	15,0	100
MUT93420	M20	30	16,0	100
MUT93422	M22	32	18,0	50
MUT93424	M24	36	19,0	50
MUT93427	M27	41	22,0	25
MUT93430	M30	46	24,0	25

* La norma ISO 4032 differisce dalla norma DIN 934 nel parametro h e, per i diametri M10, M12, M14 e M22 anche nel parametro SW.

Classe acciaio 8 - elettrozincato
DIN 934 (ISO 4032*)

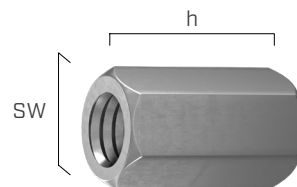


MUT 6334

DADO DA GIUNZIONE

CODICE	barra	SW [mm]	h [mm]	pz.
MUT633410	M10	17	30,0	10
MUT633412	M12	19	36,0	10
MUT633416	M16	24	48,0	25
MUT633420	M20	30	60,0	10

Classe acciaio 8 - elettrozincato
DIN 6334



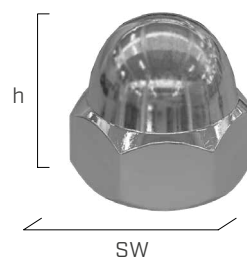
MUT 1587

DADO CIECO

CODICE	barra	SW [mm]	h [mm]	pz.
MUT15878S	M8	13	15,0	200
MUT158710S	M10	17	18,0	50
MUT158712S	M12	19	22,0	50
MUT158714S	M14	22	25,0	50
MUT158716S	M16	24	28,0	50
MUT158718S	M18	27	32,0	50
MUT158720S	M20	30	34,0	25
MUT158722S	M22	32	39,0	25
MUT158724S	M24	36	42,0	25

Dado tornito in un unico pezzo.

Classe acciaio 6 - elettrozincato
DIN 1587



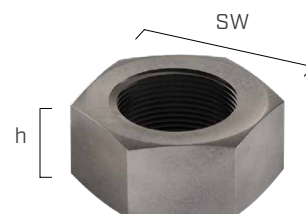
MUT AI 934

DADO ESAGONALE

CODICE	barra	SW [mm]	h [mm]	pz.
AI9348	M8	13	6,5	500
AI93410	M10	17	8,0	200
AI93412	M12	19	10,0	200
AI93416	M16	24	13,0	100
AI93420	M20	30	16,0	50

* La norma ISO 4032 differisce dalla norma DIN 934 nel parametro h e, per i diametri M10 e M12, anche nel parametro SW.

Acciaio inossidabile A2-70 (A2 | AISI304)
DIN 934 (ISO 4032*)



A2
AISI 304

MUT AI 985

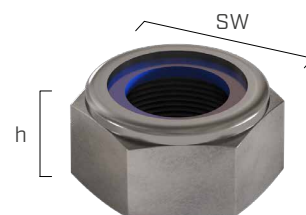
DADO AUTOBLOCCANTE

A2
AISI 304

CODICE	barra	SW [mm]	h [mm]	pz.
AI9858	M8	13	8,0	500
AI98510	M10	17	10,0	200
AI98512	M12	19	12,0	200
AI98516	M16	24	16,0	100

* La norma ISO 10511 differisce dalla norma DIN 995 nel parametro h e, per i diametri M10 e M12, anche nel parametro SW.

Acciaio inossidabile A2-70 (A2 | AISI304)
DIN 985 (ISO 10511*)



MUT AI 1587

DADO CIECO

A2
AISI 304

CODICE	barra	SW [mm]	h [mm]	pz.
AI158710	M10	17	18,0	100
AI158712	M12	19	22,0	100
AI158716	M16	24	28,0	50
AI158720	M20	30	34,0	25

Dado tornito in un unico pezzo.

Acciaio inossidabile A2 | AISI304
DIN 1587

