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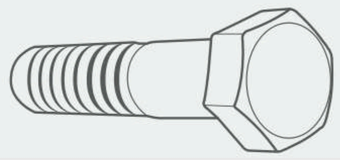
1-40	Tornillos	
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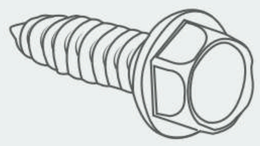
57-67	Pijas	
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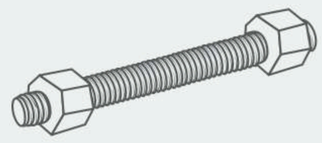
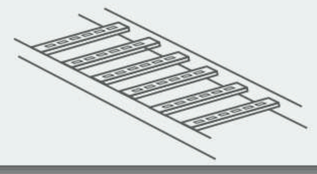
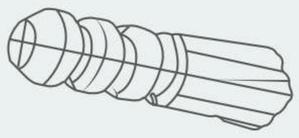
70-73	Espárragos	
74-79	Soportería	
80-83	Taquetes	
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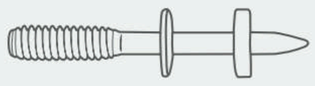
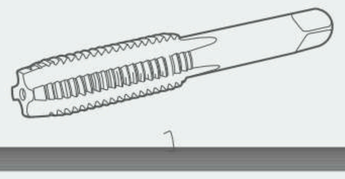
88-96	Varios	
97-98	BYRNE	
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Tornillos

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Tornillo máquina negro
cabeza hexagonal

NORMA	SAE J429 / AISI-1010-1050 ASME B18.2.1	
Material	**Resistencia**	**Dureza**
Bajo carbono	1/4 a 3/4" 74,000 PSI 3/4 a 1 1/2" 60,000 PSI	80 - 100 HB 70 - 100 HB

Ø / Largo	1/4"	5/16"	3/8"	7/16"	1/2"	5/8"	3/4"	7/8"	1"	1 1/8"	1 1/4"	1 1/2"
1/2"	●	●										
5/8"	●	●										
3/4"	●	●	●	●	●	●						
1"	●	●	●	●	●	●	●					
1 1/4"	●	●	●	●	●	●	●					
1 1/2"	●	●	●	●	●	●	●	●	●			
1 3/4"	●	●	●	●	●	●	●					
2"	●	●	●	●	●	●	●	●	●		●	
2 1/2"	●	●	●	●	●	●	●	●	●	●	●	
3"	●	●	●	●	●	●	●	●	●	●	●	●
3 1/2"	●	●	●	●	●	●	●	●	●	●	●	●
4"	●	●	●	●	●	●	●	●	●	●	●	●
4 1/2"	●	●	●	●	●	●	●	●	●	●	●	●
5"	●	●	●	●	●	●	●	●	●	●	●	●
5 1/2"	●	●	●	●	●	●	●	●	●	●	●	●
6"	●	●	●	●	●	●	●	●	●	●	●	●
6 1/2"	●	●	●	●	●	●	●	●	●	●	●	●
7"	●	●	●	●	●	●	●	●	●	●	●	●
7 1/2"	●	●	●	●	●	●	●	●	●	●	●	●
8"	●	●	●	●	●	●	●	●	●	●	●	●
9"	●	●	●	●	●	●	●	●	●	●	●	●
10"	●	●	●	●	●	●	●	●	●	●	●	●

Tornillo máquina galvanizado
cabeza hexagonal

NORMA	SAE J429 / AISI-1010-1050 ASME B18.2.1	
Material	**Resistencia**	**Dureza**
Bajo carbono	1/4 a 3/4" 74,000 PSI 3/4 a 1 1/2" 60,000 PSI	80 - 100 HB 70 - 100 HB

Largo \ Ø	1/4"	5/16"	3/8"	7/16"	1/2"	5/8"	3/4"	7/8"	1"	1 1/8"	1 1/4"	1 1/2"
1/2"	●	●										
5/8"	●	●										
3/4"	●	●	●	●	●	●						
1"	●	●	●	●	●	●	●					
1 1/4"	●	●	●	●	●	●	●					
1 1/2"	●	●	●	●	●	●	●	●	●			
1 3/4"	●	●	●	●	●	●	●					
2"	●	●	●	●	●	●	●	●	●		●	
2 1/2"	●	●	●	●	●	●	●	●	●	●	●	
3"	●	●	●	●	●	●	●	●	●	●	●	●
3 1/2"	●	●	●	●	●	●	●	●	●	●	●	●
4"	●	●	●	●	●	●	●	●	●	●	●	●
4 1/2"	●	●	●	●	●	●	●	●	●	●	●	●
5"	●	●	●	●	●	●	●	●	●	●	●	●
5 1/2"	●	●	●	●	●	●	●	●	●	●	●	●
6"	●	●	●	●	●	●	●	●	●	●	●	●
6 1/2"	●	●	●	●	●	●	●	●	●	●	●	●
7"	●	●	●	●	●	●	●	●	●	●	●	●
7 1/2"	●	●	●	●	●	●	●	●	●	●	●	●
8"	●	●	●	●	●	●	●	●	●	●	●	●
9"	●	●	●	●	●	●	●	●	●	●	●	●
10"	●	●	●	●	●	●	●	●	●	●	●	●

Tornillo hexagonal Grado 5 NC
pavonado

NORMA	SAE J429 / AISI 1035-1050 ASME B18.2.1	
Material	**Resistencia**	**Dureza**
Medio carbono	1/4 a 1" 120,000 PSI 1 1/8 a 1 1/2" 105,000 PSI	25 - 34 HRC 19 - 30 HRC

Largo \ Ø	1/4"	5/16"	3/8"	7/16"	1/2"	9/16"	5/8"	3/4"	7/8"	1"	1 1/8"	1 1/4"	1 1/2"
1/2"	●	●	●										
5/8"	●	●	●										
3/4"	●	●	●	●	●								
1"	●	●	●	●	●	●	●						
1 1/4"	●	●	●	●	●	●	●	●					
1 1/2"	●	●	●	●	●	●	●	●	●	●			
1 3/4"	●	●	●	●	●	●	●	●					
2"	●	●	●	●	●	●	●	●	●				
2 1/2"	●	●	●	●	●	●	●	●	●	●	●	●	●
3"	●	●	●	●	●	●	●	●	●	●	●	●	●
3 1/2"	●	●	●	●	●	●	●	●	●	●	●	●	●
4"	●	●	●	●	●	●	●	●	●	●	●	●	●
4 1/2"	●	●	●	●	●	●	●	●	●	●	●	●	●
5"	●	●	●	●	●	●	●	●	●	●	●	●	●
5 1/2"	●	●	●	●	●	●	●	●	●	●	●	●	●
6"	●	●	●	●	●	●	●	●	●	●	●	●	●
6 1/2"			●		●		●	●	●	●	●	●	●
7"		●	●	●	●	●	●	●	●	●	●	●	●
8"		●	●	●	●		●	●	●	●	●	●	●
9"				●	●		●	●	●	●	●	●	●
10"					●		●	●	●	●	●	●	●
11"							●	●	●	●	●	●	●
12"							●	●	●	●	●	●	●
13"							●	●	●	●	●	●	●
14"								●	●	●		●	●
17"													●
18"													●

Tornillo hexagonal Grado 5 NF (fino) pavonado

NORMA	SAE J429 / AISI 1035-1050 ASME B18.2.1	
Material	**Resistencia**	**Dureza**
Medio carbono	1/4 a 1" 120,000 PSI 1 1/8 a 1 1/2" 105,000 PSI	25 - 34 HRC 19 - 30 HRC

Largo \ Ø	1/4"	5/16"	3/8"	7/16"	1/2"	9/16"	5/8"	3/4"	7/8"	1"	1 1/8"	1 1/4"	1 1/2"
1/2"	●	●	●										
5/8"	●	●	●										
3/4"	●	●	●	●	●								
1"	●	●	●	●	●	●	●						
1 1/4"	●	●	●	●	●	●	●						
1 1/2"	●	●	●	●	●	●	●	●					
1 3/4"	●	●	●	●	●	●	●						
2"	●	●	●	●	●	●	●	●	●	●			
2 1/2"	●	●	●	●	●	●	●	●	●	●		●	
3"	●	●	●	●	●	●	●	●	●	●	●	●	●
3 1/2"	●	●	●	●	●	●	●	●	●	●	●	●	●
4"	●	●	●	●	●	●	●	●	●	●	●	●	●
4 1/2"	●	●	●	●	●	●	●	●	●	●	●	●	●
5"	●	●	●	●	●	●	●	●	●	●	●	●	●
5 1/2"	●	●	●	●	●	●	●	●	●	●	●	●	●
6"	●	●	●	●	●	●	●	●	●	●	●	●	●
6 1/2"					●	●	●	●	●	●	●	●	●
7"			●		●		●	●	●	●	●	●	●
8"					●		●	●	●	●	●	●	●
9"					●		●	●	●	●	●	●	●
10"							●	●	●	●	●	●	●
11"							●	●	●	●	●	●	●
12"							●	●	●	●	●	●	●

Tornillo hexagonal Grado 8 NC

NORMA	SAE J-429 / ASME B18.2.1	
Material	**Resistencia**	**Dureza**
Medio carbono aleado	150,000 PSI	33 - 39 HRC

Largo \ Ø	1/4"	5/16"	3/8"	7/16"	1/2"	9/16"	5/8"	3/4"	7/8"	1"	1 1/8"	1 1/4"	1 3/8"	1 1/2"	1 3/4"
1/2"	●	●	●												
3/4"	●	●	●	●	●										
7/8"	●	●	●	●	●										
1"	●	●	●	●	●	●	●	●							
1 1/4"	●	●	●	●	●	●	●	●							
1 1/2"	●	●	●	●	●	●	●	●	●	●					
1 3/4"	●	●	●	●	●	●	●	●	●						
2"	●	●	●	●	●	●	●	●	●	●					
2 1/4"	●	●	●	●	●	●	●	●	●						
2 1/2"	●	●	●	●	●	●	●	●	●	●					
2 3/4"	●	●	●	●	●	●	●	●							
3"	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
3 1/2"	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
4"	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
4 1/2"	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
5"	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
5 1/2"	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
6"	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
6 1/2"			●	●	●		●	●	●	●	●	●	●	●	
7"			●	●	●		●	●	●	●	●	●	●	●	●
7 1/2"			●	●	●		●	●	●	●	●	●	●	●	
8"			●	●	●		●	●	●	●	●	●	●	●	●
8 1/2"							●	●	●	●	●	●		●	
9"							●	●	●	●	●	●		●	
9 1/2"							●	●	●	●	●	●		●	
10"							●	●	●	●	●	●		●	
11"							●	●	●	●	●	●		●	
12"							●	●	●	●	●	●		●	
14"								●	●	●					

Tornillo hexagonal Grado 8 NF (fino)

NORMA	SAE J-429 / ASME B18.2.1	
Material	**Resistencia**	**Dureza**
Medio carbono aleado	150,000 PSI	33 - 39 HRC

Largo \ Ø	1/4"	5/16"	3/8"	7/16"	1/2"	9/16"	5/8"	3/4"	7/8"	1"	1 1/8"	1 1/4"	1 1/2"
1/2"	●	●	●										
3/4"	●	●	●	●									
1"	●	●	●	●	●	●							
1 1/4"	●	●	●	●	●	●							
1 1/2"	●	●	●	●	●	●	●	●					
1 3/4"	●	●	●	●	●	●	●						
2"	●	●	●	●	●	●	●	●	●	●			
2 1/4"	●	●	●	●	●	●							
2 1/2"	●	●	●	●	●	●	●	●	●	●			
2 3/4"	●	●	●	●	●	●							
3"	●	●	●	●	●	●	●	●	●	●	●	●	●
3 1/2"	●	●	●	●	●	●	●	●	●	●	●	●	●
4"	●	●	●	●	●	●	●	●	●	●	●	●	●
4 1/2"	●	●	●	●	●	●	●	●	●	●	●	●	●
5"	●	●	●	●	●	●	●	●	●	●	●	●	●
5 1/2"	●	●	●	●	●	●	●	●	●	●	●	●	●
6"	●	●	●	●	●	●	●	●	●	●	●	●	●
6 1/2"							●	●	●	●	●	●	●
7"					●		●	●	●	●	●	●	●
7 1/2"							●	●	●	●	●	●	●
8"							●	●	●	●	●	●	●
8 1/2"							●	●	●	●	●	●	●
9"							●	●	●	●	●	●	●
9 1/2"							●	●	●	●	●	●	●
10"							●	●	●	●	●	●	●
11"								●					
12"										●			

Tornillo hexagonal métrico
clase 8.8

NORMA	ISO-898 / ASME B18.2.3.1M	
Material	**Resistencia**	**Dureza**
Medio carbono aleado	800 MPa	22 - 34 HRC

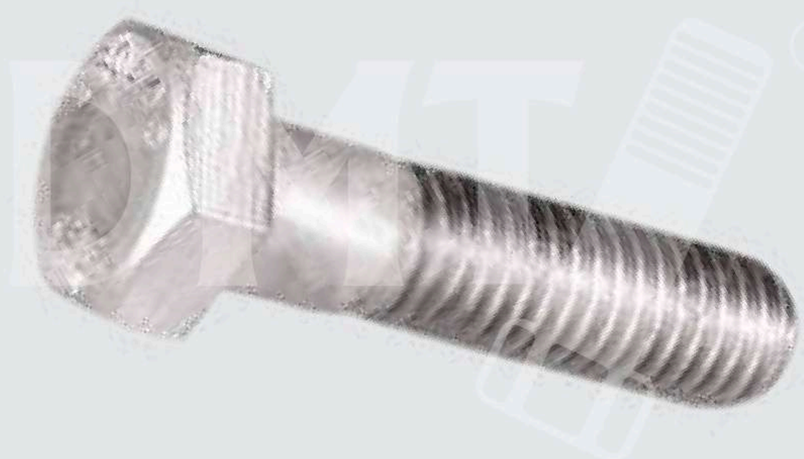
Ø / Largo	M3 0.5	M4 0.7	M5 0.8	M6 1	M7 1	M8 1.25	M10 1.5	M12 1.75	M14 2	M16 2	M18 2.5	M20 2.5	M24 3	M30 3.5
6 mm	●	●												
8 mm	●	●	●											
10 mm	●	●	●	●		●								
12 mm	●	●	●	●	●	●								
16 mm	●	●	●	●	●	●	●							
20 mm	●	●	●	●	●	●	●	●	●	●				
25 mm	●	●	●	●	●	●	●	●	●	●				
30 mm	●	●	●	●	●	●	●	●	●	●	●	●		
35 mm	●	●	●	●	●	●	●	●	●	●	●	●		
40 mm	●	●	●	●	●	●	●	●	●	●	●	●	●	
45 mm		●	●	●	●	●	●	●	●	●	●	●	●	
50 mm		●	●	●	●	●	●	●	●	●	●	●	●	●
55 mm			●	●	●	●	●	●	●	●	●	●	●	
60 mm			●	●	●	●	●	●	●	●	●	●	●	●
65 mm				●	●	●	●	●	●	●	●	●	●	●
70 mm				●	●	●	●	●	●	●	●	●	●	●
80 mm				●	●	●	●	●	●	●	●	●	●	●
90 mm				●		●	●	●	●	●	●	●	●	●
100 mm				●		●	●	●	●	●	●	●	●	●
110 mm				●		●	●	●	●	●	●	●	●	●
120 mm				●		●	●	●	●	●	●	●	●	●
130 mm				●		●	●	●	●	●	●	●	●	●
140 mm				●		●	●	●	●	●	●	●	●	●
150 mm				●		●	●	●	●	●	●	●	●	●
160 mm								●		●	●	●	●	●
180 mm								●		●	●	●	●	●
200 mm										●		●	●	●

Tornillo hexagonal métrico
clase 8.8 NF

NORMA	ISO 898 / ASME B18.2.3.1M	
Material	**Resistencia**	**Dureza**
Medio carbono aleado	800 Mpa	20 - 32 HRC

Largo \ Ø	M8 1.00	M10 1.25	M12 1.25	M12 1.50	M14 1.50	M16 1.50
20 mm	●	●				
25 mm	●	●	●	●	●	
30 mm	●	●	●	●	●	●
35 mm	●	●	●	●	●	●
40 mm	●	●	●	●	●	●
45 mm	●	●	●	●	●	●
50 mm	●	●	●	●	●	●
55 mm	●	●	●	●	●	●
60 mm	●	●	●	●	●	●
65 mm	●	●	●	●	●	
70 mm	●	●	●	●	●	●
75 mm					●	●
80 mm	●	●	●	●	●	●
85 mm					●	
90 mm	●	●	●	●	●	●
95 mm					●	
100 mm	●	●	●	●	●	●
110 mm		●	●	●	●	●
120 mm		●	●	●	●	●
130 mm		●	●	●	●	●
140 mm		●	●	●	●	●
150 mm		●	●	●	●	●
160 mm			●	●		
180 mm			●	●		

Tornillo cabeza hexagonal inoxidable 304 NC



NORMA	ASTM F593 - AISI 304	
Material	**Resistencia**	**Dureza**
Acero Inoxidable	85,000 PSI	85 HRB

304

Largo \ Ø	3/16″	1/4″	5/16″	3/8″	7/16″	1/2″	9/16″	5/8″	3/4″	7/8″	1″	1 1/8″	1 1/4″	1 1/2″
1/2″	●	●	●	●		●								
5/8″	●	●	●	●										
3/4″	●	●	●	●	●	●	●	●						
1″	●	●	●	●	●	●	●	●	●					
1 1/4″	●	●	●	●	●	●	●	●	●					
1 1/2″	●	●	●	●	●	●	●	●	●	●	●			
1 3/4″	●	●	●	●		●	●	●	●					
2″	●	●	●	●	●	●	●	●	●	●	●			
2 1/2″	●	●	●	●	●	●	●	●	●	●	●			
2 3/4″			●	●	●	●	●	●	●		●			
3″	●	●	●	●	●	●	●	●	●	●	●	●		●
3 1/2″		●	●	●	●	●	●	●	●	●	●	●	●	
4″		●	●	●	●	●	●	●	●	●	●	●	●	●
4 1/2″		●	●	●	●	●	●	●	●	●	●	●	●	●
5″		●	●	●	●	●	●	●	●	●	●	●	●	●
5 1/2″		●	●	●	●	●	●	●	●	●	●	●	●	●
6″		●	●	●		●	●	●	●	●	●	●	●	●
7″				●		●	●	●	●	●	●	●	●	●
8″				●		●	●	●	●	●	●	●		●
9″						●	●	●	●	●	●	●		
10″						●	●	●	●	●	●	●		
11″									●					

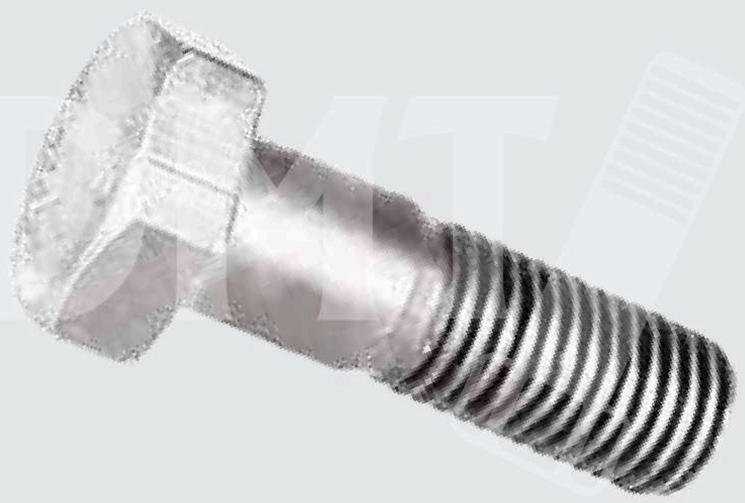
Tornillo cabeza hexagonal ASTM A325
pavonado NC

NORMA	ASTM F3125 / GRADO A325
Material	Medio carbono

Diámetro	Resistencia	Dureza
1/2" a 1 1/2 "	120 KSI min	25-34 HRC

Largo \ Ø	1/2"	5/8"	3/4"	7/8"	1"	1 1/8"	1 1/4"	1 1/2"
1"	●							
1 1/4"	●	●						
1 1/2"	●	●	●					
1 3/4"	●	●	●	●				
2"	●	●	●	●	●			
2 1/4"	●	●	●	●	●			
2 1/2"	●	●	●	●	●	●	●	
2 3/4"	●	●	●	●	●	●	●	
3"	●	●	●	●	●	●	●	●
3 1/4"	●	●	●	●	●	●	●	●
3 1/2"	●	●	●	●	●	●	●	●
3 3/4"	●	●	●	●	●	●	●	●
4"	●	●	●	●	●	●	●	●
4 1/4"	●	●	●	●	●	●	●	●
4 1/2"	●	●	●	●	●	●	●	●
4 3/4"	●	●	●	●	●	●	●	●
5"	●	●	●	●	●	●	●	●
5 1/4"		●	●	●	●	●	●	●
5 1/2"	●	●	●	●	●	●	●	●
5 3/4"		●	●	●	●	●	●	●
6"	●	●	●	●	●	●	●	●
6 1/2"				●	●	●	●	●
6 3/4"					●	●	●	●
7"					●	●	●	●

Tornillo cabeza hexagonal ASTM A325
Galvanizado por inmersión NC



NORMA	ASTM F3125 / GRADO A325
Material	Medio carbono

Diámetro	Resistencia	Dureza
1/2" a 1 1/2"	120 KSI min	25-34 HRC

Largo \ Ø	1/2″	5/8″	3/4″	7/8″	1″	1 1/8″	1 1/4″	1 1/2″
1″	●							
1 1/4″	●	●						
1 1/2″	●	●	●					
1 3/4″	●	●	●	●				
2″	●	●	●	●	●			
2 1/4″	●	●	●	●	●			
2 1/2″	●	●	●	●	●	●	●	
2 3/4″	●	●	●	●	●	●	●	
3″	●	●	●	●	●	●	●	●
3 1/4″	●	●	●	●	●	●	●	●
3 1/2″	●	●	●	●	●	●	●	●
3 3/4″	●	●	●	●	●	●	●	●
4″	●	●	●	●	●	●	●	●
4 1/4″	●	●	●	●	●	●	●	●
4 1/2″	●	●	●	●	●	●	●	●
4 3/4″	●	●	●	●	●	●	●	●
5″	●	●	●	●	●	●	●	●
5 1/4″		●	●	●	●	●	●	●
5 1/2″	●	●	●	●	●	●	●	●
5 3/4″		●	●	●	●	●	●	●
6″	●	●	●	●	●	●	●	●
6 1/2″				●	●	●	●	●
6 3/4″					●	●	●	●
7″					●	●	●	●

Tornillo tensión controlada
ASTM F3125 Grado F1852 - A325

NORMA	ASTM F3125 / F1852	
Material	**Resistencia**	**Dureza**
Acero Medio Carbono	120,000 KSI min	de 25 a 34 HRC

Largo \ Ø	5/8″	3/4″	7/8″	1″	1 1/8″
1″					
1 1/4″					
1 1/2″	●	●			
1 3/4″	●	●			
2″	●	●	●	●	
2 1/4″	●	●	●	●	
2 1/2″	●	●	●	●	
2 3/4″	●	●	●	●	
3″	●	●	●	●	●
3 1/4″		●	●	●	●
3 1/2″	●	●	●	●	●
3 3/4″	●	●	●	●	●
4″		●	●	●	●
4 1/4″		●	●	●	●
4 1/2″	●	●	●	●	●
4 3/4″		●	●	●	●
5″	●	●	●	●	
5 1/4″				●	
5 1/2″			●	●	

Tornillo cabeza hexagonal
ASTM A490 Tipo 1 NC

NORMA	ASME B18.2.1	
Material	**Resistencia**	**Dureza**
Medio Carbono	150,000 PSI	33-38 HRB

Largo \ Ø	1/2″	5/8″	3/4″	7/8″	1″	1 1/8″	1 1/4″	1 3/8″	1 1/2″
1″									
1 1/4″									
1 1/2″	●	●							
1 3/4″	●	●	●						
2″	●	●	●	●					
2 1/4″	●	●	●	●	●				
2 1/2″	●	●	●	●	●				
2 3/4″	●	●	●	●	●		●		
3″		●	●	●	●	●	●		
3 1/4″		●	●	●	●	●	●		●
3 1/2″		●	●	●	●	●	●		●
3 3/4″		●		●	●	●	●	●	●
4″		●	●	●	●	●	●	●	●
4 1/4″					●	●	●	●	●
4 1/2″			●	●	●	●	●	●	●
4 3/4″			●		●	●	●	●	●
5″			●	●	●	●	●	●	●
5 1/4″					●	●	●	●	●
5 1/2″			●		●	●	●	●	●
5 3/4″			●			●	●		●
6″						●	●		●
6 1/2″							●		●
6 3/4″							●		●
7″							●		●
7 1/2″									●
7 3/4″									●
8″									●

Tornillo tensión controlada
ASTM F3125 Grado F2280 - A490

NORMA	ASTM F3125 / F2280	
Material	**Resistencia**	**Dureza**
Acero Medio Carbono	150,000 KSI min	de 33 a 38 HRC

A490 TC

Largo \ Ø	5/8″	3/4″	7/8″	1″	1 1/8″
1″					
1 1/4″					
1 1/2″	●				
1 3/4″	●	○			
2″	●		●		
2 1/4″	●	●	●	●	
2 1/2″	●	●	●	●	●
2 3/4″	○	●	●	●	●
3″	●	●	●	●	●
3 1/4″		●	●	●	●
3 1/2″			●	●	●
3 3/4″		○	●	●	●
4″			●	●	●
4 1/4″			○	●	●
4 1/2″				●	●
4 3/4″				●	●
5″				●	●
5 1/4″				○	
5 1/2″				●	

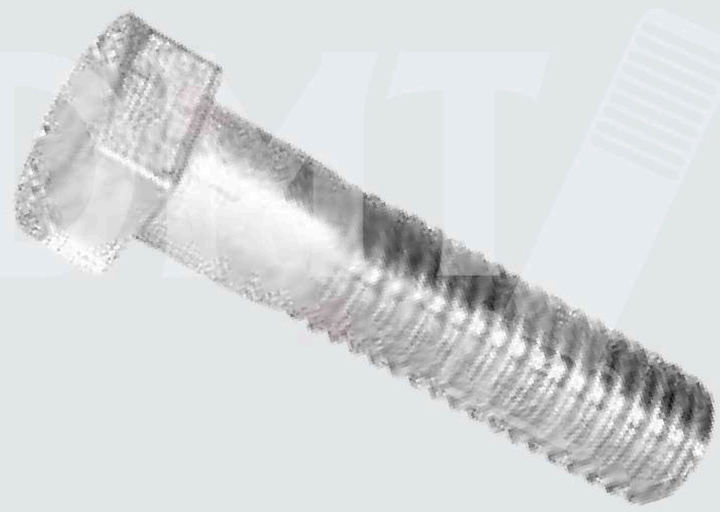
Tornillo cabeza hexagonal
acero inoxidable métrico AISI-304

NORMA	DIN 931/933	
Material	**Resistencia**	**Dureza**
Acero Inoxidable	85,000 PSI	85 HRB

304

Largo \ Ø	M3 0.5	M4 0.7	M5 0.8	M6 1	M8 1.25	M10 1.5	M12 1.75	M14 2	M16 2	M20 2.5
6 mm	●									
8 mm	●	●								
10 mm	●	●	●	●	●					
12 mm	●	●	●	●	●					
16 mm	●	●	●	●	●	●				
20 mm	●	●	●	●	●	●	●			
25 mm	●	●	●	●	●	●	●		●	
30 mm		●	●	●	●	●	●	●	●	●
35 mm		●	●	●	●	●	●	●	●	●
40 mm		●	●	●	●	●	●	●	●	●
45 mm			●	●	●	●	●		●	●
50 mm		●	●	●	●	●	●	●	●	●
60 mm		●		●	●	●	●	●	●	●
70 mm				●	●	●	●	●	●	●
80 mm				●	●	●	●	●	●	●
90 mm				●	●	●	●	●	●	●
100 mm				●	●	●	●	●	●	●
110 mm				●	●	●	●		●	●
120 mm				●	●	●	●		●	●
130 mm							●		●	●
140 mm										●
150 mm						●	●		●	

Tornillo cabeza hexagonal inoxidable T-316 NC



NORMA	ASTM F593 /AISI 316	
Material	**Resistencia**	**Dureza**
Acero Inoxidable	85,000 PSI	85 HRB

Largo \ Ø	3/16"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	7/8"	1"	11/8"
1/2"	●	●	●	●						
3/4"	●	●	●	●	●					
1"	●	●	●	●	●	●				
1 1/4"	●	●	●	●	●	●				
1 1/2"	●	●	●	●	●	●	●			
2"	●	●	●	●	●	●	●	●	●	●
2 1/2"	●	●	●	●	●	●	●	●	●	●
3"	●	●	●	●	●	●	●	●	●	●
3 1/2"	●	●	●	●	●	●	●	●	●	●
4"	●	●	●	●	●	●	●	●	●	●
4 1/2"					●	●	●			
5"					●	●	●	●	●	●
5 1/2"					●	●	●			
6"					●	●	●	●	●	●

Tornillo galvanizado
por inmersión en caliente cabeza hexagonal

NORMA	ASME B18.2.1 / SAE J-429 AISI-1010-1050	Material Bajo carbono
Diámetro	**Resistencia**	**Dureza**
3/4″ a 1 1/2″	60,000 PSI	70 - 100 HB
1/4″ a 3/4″	74,000 PSI	80 - 100 HB

Largo \ Ø	1/4″	5/16″	3/8″	7/16″	1/2″	5/8″	3/4″	7/8″	1″	1 1/8″	1 1/4″	1 1/2″
1/2″	●	●										
5/8″	●	●										
3/4″	●	●	●	●	●	●						
1″	●	●	●	●	●	●	●					
1 1/4″	●	●	●	●	●	●	●					
1 1/2″	●	●	●	●	●	●	●	●	●			
1 3/4″	●	●	●	●	●	●	●					
2″	●	●	●	●	●	●	●	●	●		●	
2 1/2″	●	●	●	●	●	●	●	●	●	●	●	
3″	●	●	●	●	●	●	●	●	●	●	●	●
3 1/2″	●	●	●	●	●	●	●	●	●	●	●	●
4″	●	●	●	●	●	●	●	●	●	●	●	●
4 1/2″	●	●	●	●	●	●	●	●	●	●	●	●
5″	●	●	●	●	●	●	●	●	●	●	●	●
5 1/2″	●	●	●	●	●	●	●	●	●	●	●	●
6″	●	●	●	●	●	●	●	●	●	●	●	●
6 1/2″	●	●	●	●	●	●	●	●	●	●	●	●
7″	●	●	●	●	●	●	●	●	●	●	●	●
7 1/2″	●	●	●	●	●	●	●	●	●	●	●	●
8″	●	●	●	●	●	●	●	●	●	●	●	●
9″	●	●	●	●	●	●	●	●	●	●	●	●
10″	●	●	●	●	●	●	●	●	●	●	●	●

Tornillo cabeza coche negro NC

Largo \ Ø	3/16″	1/4″	5/16″	3/8″	7/16″	1/2″	5/8″
1/2″	●	●					
3/4″	●	●	●	●			
1″	●	●	●	●	●	●	
1 1/4″		●	●	●	●	●	
1 1/2″	●	●	●	●	●	●	
1 3/4″		●	●	●	●	●	
2″	●	●	●	●	●	●	●
2 1/2″		●	●	●	●	●	●
3″		●	●	●	●	●	●
3 1/2″		●	●	●	●	●	●
4″		●	●	●	●	●	●
4 1/2″		●	●	●	●	●	●
5″		●	●	●	●	●	●
5 1/2″		●	●	●	●	●	●
6″		●	●	●	●	●	●
8″				●		●	
9″			●			●	

Tornillo cabeza coche galvanizado NC

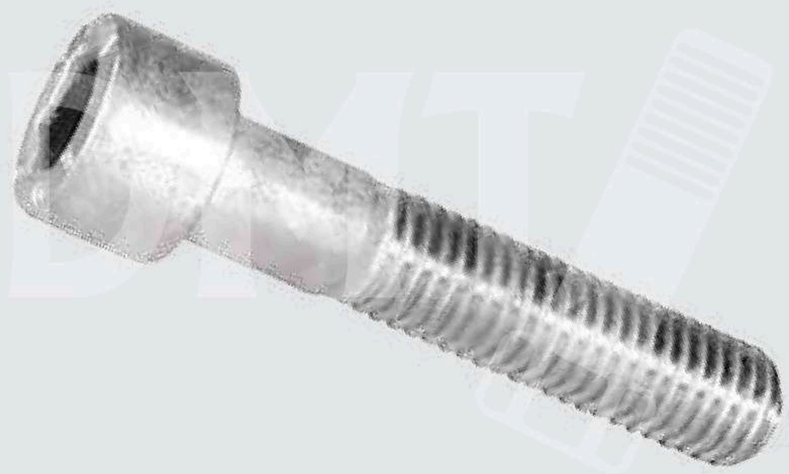
Largo \ Ø	3/16″	1/4″	5/16″	3/8″	7/16″	1/2″	5/8″
1/4″							
1/2″	●	●					
3/4″	●	●	●	●			
1″	●	●	●	●	●	●	
1 1/4″		●	●	●	●	●	
1 1/2″	●	●	●	●	●	●	●
1 3/4″		●	●	●		●	●
2″	●	●	●	●	●	●	●
2 1/2″	●	●	●	●	●	●	●
3″	●	●	●	●	●	●	●
3 1/2″	●	●	●	●	●	●	●
4″	●	●	●	●	●	●	●
4 1/2″		●	●	●	●	●	●
5″		●	●	●	●	●	●
5 1/2″		●	●	●	●	●	●
6″		●	●	●	●	●	●
6 1/2″						●	●
7″			●	●		●	●
8″			●	●		●	
9″			●	●		●	

Tornillo cabeza coche inoxidable 304 NC

NORMA	ASME F593 /ASME B18.5	
Material	**Resistencia**	**Dureza**
Acero Inoxidable	85,000 PSI 150,000 PSI	85 HRB

Largo \ Ø	3/16″	1/4″	5/16″	3/8″	7/16″	1/2″
1/2″	●	●	●			
5/8″		●	●			
3/4″	●	●	●	●		
1″	●	●	●	●		●
1 1/4″		●	●	●		●
1 1/2″	●	●	●	●		●
2″	●	●	●	●		●
2 1/2″		●	●	●	●	●
3″		●	●	●		●
3 1/2″		●	●	●		●
4″			●	●	●	●
5″				●		
6″						●

Tornillo ALLEN cabeza cilíndrica
hexágono interior inoxidable 304 NC



NORMA	DIN-912	
Material	**Resistencia**	**Dureza**
Acero Inoxidable	85,000 PSI 150,000 PSI	85 HRB

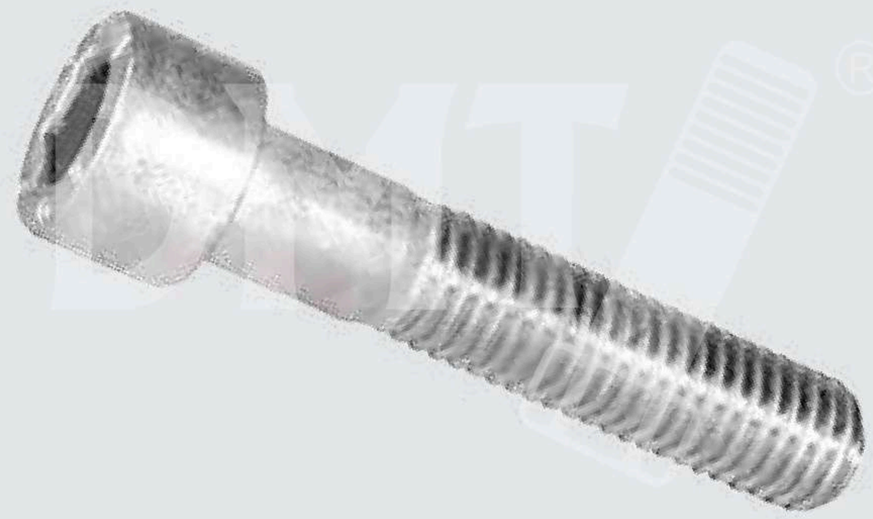
Largo \ Ø	5-40.	8-32.	3/16″	1/4″	5/16″	3/8″	1/2″	5/8″	3/4″
1/4″	●								
3/8″	●	●	●						
1/2″	●	●	●	●	●	●			
5/8″			●	●	●	●			
3/4″	●	●	●	●	●	●	●		
1″	●	●	●	●	●	●	●	●	
1 1/4″			●	●	●	●	●	●	
1 1/2″			●	●	●	●	●	●	●
1 3/4″				●	●	●	●	●	
2″			●	●	●	●	●	●	●
2 1/2″				●	●	●	●	●	●
3″				●	●	●	●	●	●
3 1/2″					●	●	●	●	●
4″				●	●	●	●	●	●

Tornillo ALLEN cabeza cilíndrica
hexágono interior métrico

NORMA	DIN-912 / ISO 898	
Material	**Resistencia**	**Dureza**
Acero Aleado	170,000 PSI	34-44 HRC

Largo \ Ø	M3 0.5	M4 0.7	M5 0.8	M6 1	M8 1.25	M10 1.5	M12 1.75	M14 2	M16 2	M20 2.5	M24 3	M30 3.5
6 mm	●	●	●									
8 mm	●	●	●	●								
10 mm	●	●	●	●	●							
12 mm	●	●	●	●	●	●						
16 mm	●	●	●	●	●	●						
20 mm	●	●	●	●	●	●	●	●				
25 mm	●	●	●	●	●	●	●	●	●			
30 mm	●	●	●	●	●	●	●	●	●			
35 mm	●	●	●	●	●	●	●	●	●	●		
40 mm	●	●	●	●	●	●	●	●	●	●	●	
45 mm		●	●	●	●	●	●	●	●	●	●	
50 mm		●	●	●	●	●	●	●	●	●	●	●
55 mm			●	●	●	●	●	●	●	●	●	●
60 mm	●	●	●	●	●	●	●	●	●	●	●	●
65 mm			●	●	●	●	●	●	●	●	●	●
70 mm			●	●	●	●	●	●	●	●	●	●
80 mm			●	●	●	●	●	●	●	●	●	●
90 mm			●	●	●	●	●	●	●	●	●	●
100 mm			●	●	●	●	●	●	●	●	●	●
110 mm			●	●	●	●	●	●	●	●	●	●
120 mm			●	●	●	●	●	●	●	●	●	●
130 mm				●	●	●	●	●	●	●	●	●
140 mm				●	●	●	●	●	●	●	●	●
150 mm				●	●	●	●	●	●	●	●	●
160 mm				●		●	●	●	●	●	●	●
170 mm				●	●	●	●		●	●	●	●
180 mm				●		●	●	●	●	●	●	●
190 mm				●	●	●	●	●		●	●	●
200 mm				●	●	●	●	●	●	●	●	●

Tornillo ALLEN cabeza cilíndrica
hexágono interior métrico inoxidable 304



Largo \ Ø	M3 0.5	M4 0.7	M5 0.8	M6 1	M8 1.25	M10 1.5	M12 1.75	M16 2
6 mm	●							
8 mm	●	●						
10 mm	●	●	●	●				
12 mm	●	●	●	●	●			
16 mm	●	●	●	●	●	●		
20 mm	●	●	●	●	●	●	●	●
25 mm	●	●	●	●	●	●	●	●
30 mm	●	●	●	●	●	●	●	●
35 mm		●	●	●	●	●	●	●
40 mm		●	●	●	●	●	●	●
45 mm		●	●	●	●	●	●	●
50 mm		●	●	●	●	●	●	●
60 mm		●	●	●	●	●	●	●
70 mm			●	●	●	●	●	●
80 mm			●	●	●	●	●	●
90 mm				●	●	●	●	●
100 mm					●	●	●	●

Tornillo ALLEN cabeza cilíndrica
hexágono interior pavonado NC

NORMA	ASTM A-574 / ASME18.3	
Material	**Resistencia**	**Dureza**
Acero Aleado	170,000 PSI	39-45 HRC

Largo \ Ø	4-40.	5-40.	6-32	8-32	3/16"	1/4"	5/16"	3/8"	7/16"	1/2"	9/16"	5/8"	3/4"	7/8"	1"	1 1/8"	1 1/4"	1 1/2"
1/4"	●	●		●		●												
3/8"	●	●	●	●	●	●	●	●										
1/2"	●	●	●	●	●	●	●	●		●								
5/8"	●	●	●	●	●	●	●	●										
3/4"	●	●	●	●	●	●	●	●	●	●								
7/8"					●	●	●	●										
1"	●	●	●	●	●	●	●	●	●	●		●						
1 1/4"		●	●	●	●	●	●	●	●	●		●	●					
1 1/2"		●	●	●	●	●	●	●	●	●	●	●	●					
1 3/4"					●	●	●	●	●	●		●	●					
2"		●	●	●	●	●	●	●	●	●	●	●	●	●	●			
2 1/4"					●	●	●	●		●		●	●	●	●			
2 1/2"				●	●	●	●	●	●	●	●	●	●	●	●		●	
2 3/4"						●	●	●		●		●	●	●	●			
3"				●	●	●	●	●	●	●	●	●	●	●	●		●	●
3 1/2"					●	●	●	●	●	●		●	●	●	●	●	●	●
4"					●	●	●	●	●	●	●	●	●	●	●	●	●	●
4 1/2"						●	●	●	●	●		●	●	●	●	●	●	●
5"						●	●	●	●	●		●	●	●	●	●	●	●
5 1/2"						●	●	●		●		●	●	●	●	●	●	●
6"						●	●	●	●	●		●	●	●	●	●	●	●
6 1/2"								●		●		●	●	●	●	●	●	●
7"								●		●		●	●	●	●	●	●	●
8"										●		●	●	●	●	●	●	●
9"										●		●	●	●	●	●	●	●
10"										●		●	●	●	●		●	●
12"													●	●	●		●	●

Tornillo ALLEN cabeza cilíndrica
hexágono interior pavonado NF

NORMA	ASTM A-574 / ANSI B18.3	
Material	**Resistencia**	**Dureza**
Acero Aleado	170,000 PSI	39-45 HRC

Largo \ Ø	3/16″	1/4″	5/16″	3/8″	7/16″	1/2″	5/8″	3/4″	1″
3/8″	●								
1/2″	●	●	●	●					
5/8″	●	●	●						
3/4″	●	●	●	●	●				
1″	●	●	●	●	●	●			
1 1/4″	●	●	●	●	●	●			
1 1/2″	●	●	●	●	●	●	●	●	
1 3/4″	●						●		
2″	●	●	●	●	●	●	●	●	●
2 1/2″	●	●	●	●	●	●	●	●	●
3″	●	●	●	●	●	●	●	●	●
3 1/2″			●	●			●	●	
4″			●	●		●	●	●	
4 1/2″						●	●	●	
5″						●	●	●	
5 1/2″						●			
6″						●			

Tornillo ALLEN cabeza cilíndrica
hexágono interior métrico pavonado

Ø	3 mm	4 mm	5 mm	6 mm	8mm	10 mm	12 mm	14 mm	16 mm	18 mm	20 mm	24mm	30 mm
Largo													
6 mm	●	●	●										
8 mm	●	●	●										
10 mm	●	●	●	●	●								
12 mm	●	●	●	●	●	●							
16 mm	●	●	●	●	●	●							
20 mm	●	●	●	●	●	●	●	●					
25 mm	●	●	●	●	●	●	●	●	●				
30 mm	●	●	●	●	●	●	●	●	●	●			
35 mm	●	●	●	●	●	●	●	●	●	●	●		
40 mm	●	●	●	●	●	●	●	●	●	●	●	●	
45 mm	●	●	●	●	●	●	●	●	●	●	●	●	
50 mm	●	●	●	●	●	●	●	●	●	●	●	●	●
55 mm	●		●	●	●	●	●	●	●	●	●	●	●
60 mm	●	●	●	●	●	●	●	●	●	●	●	●	●
65 mm			●	●	●	●	●	●	●		●	●	●
70 mm			●	●	●	●	●	●	●	●	●	●	●
75 mm				●	●	●	●	●	●	●	●	●	●
80 mm		●	●	●	●	●	●	●	●	●	●	●	●
90 mm			●	●	●	●	●	●	●	●	●	●	●
100 mm			●	●	●	●	●	●	●	●	●	●	●
110 mm				●	●	●	●	●	●	●	●	●	●
120 mm				●	●	●	●	●	●	●	●	●	●
130 mm				●	●	●	●	●	●	●	●	●	●
140 mm				●	●	●	●	●	●	●	●	●	●
150 mm				●	●	●	●	●	●	●	●	●	●
160 mm				●	●	●	●	●	●	●	●	●	●
180 mm				●	●	●	●	●	●	●	●	●	●
200 mm				●		●	●	●	●	●	●	●	●
220 mm									●	●		●	
250 mm											●	●	
260 mm											●	●	

Tornillo ALLEN cabeza plana
hexágono interior pavonado NC

NORMA	ASTM A-574 /ANSI B18.3
Material	**Dureza**
Acero Aleado	39-45 HRC

Largo \ Ø	4-40	1/8“	6-32	8-32	3/16”	1/4”	5/16”	3/8”	1/2”	5/8“	3/4”
1/4″	●	●	●	●							
3/8″	●	●	●	●	●						
1/2″	●	●	●	●	●	●	●	●			
5/8″	●	●		●	●	●	●				
3/4″	●	●	●	●	●	●	●	●	●		
1″	●	●	●	●	●	●	●	●	●	●	
1 1/4″					●	●	●	●	●	●	
1 1/2″					●	●	●	●	●	●	●
1 3/4″					●	●	●	●	●	●	
2″					●	●	●	●	●	●	●
2 1/2″					●	●	●	●	●	●	●
3″					●	●	●	●	●	●	●
3 1/2″						●	●	●	●	●	●
4″						●	●	●	●	●	●
5"								●		●	
6"								●		●	

Tornillo ALLEN cabeza plana
hexágono interior métrico pavonado

Largo \ Ø	M3 0.5	M4 0.7	M5 0.8	M6 1	M8 1.25	M10 1.5	M12 1.75	M16 1.75
6 mm	●							
8 mm	●	●	●					
10 mm	●	●	●	●	●			
12 mm	●	●	●	●	●	●		
16 mm	●	●	●	●	●	●		
20 mm	●	●	●	●	●	●	●	
25 mm	●	●	●	●	●	●	●	
30 mm	●	●	●	●	●	●	●	●
35 mm		●	●	●	●	●	●	●
40 mm		●	●	●	●	●	●	●
45 mm			●	●	●	●	●	●
50 mm			●	●	●	●	●	●
55 mm					●	●	●	●
60 mm				●	●	●	●	●
65 mm					●	●	●	
70 mm				●	●	●	●	●
80 mm					●	●	●	●
90 mm						●	●	
100 mm						●	●	

Tornillo ALLEN cabeza plana
hexágono interior inoxidable 304 NC

Largo \ Ø	5-40	8-32.	3/16″	1/4″	5/16″	3/8″	1/2″	5/8″
3/8″	●	●	●					
1/2″	●	●	●	●	●	●	●	
3/4″	●	●	●	●	●	●	●	
1″	●	●	●	●	●	●	●	
1 1/4″			●	●	●	●	●	
1 1/2″			●	●	●	●	●	●
2″			●	●	●	●	●	●
2 1/2″				●	●	●	●	●
3″					●	●	●	●
3 1/2″						●		
4″						●		
4 1/2″						●		

Tornillo ALLEN cabeza plana
hexágono interior métrico inoxidable 304

Largo \ Ø	M3 0.5	M4 0.7	M5 0.8	M6 1	M8 1.25	M10 1.5	M12 1.75
8 mm		●	●				
10 mm	●	●	●	●	●		
12 mm	●	●	●	●			
16 mm		●	●	●	●	●	
20 mm		●	●	●	●	●	●
25 mm		●	●	●	●	●	●
30 mm		●	●	●	●	●	●
35 mm			●	●	●	●	●
40 mm		●	●	●	●	●	●
45 mm			●	●	●	●	●
50 mm		●	●	●	●	●	●
60 mm					●		●

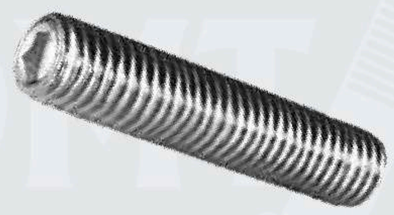
Prisionero ALLEN estándar

Ø	4-40.	5-40.	6-32	8-32	3/16″	1/4″	5/16″	3/8″	7/16″	1/2″	5/8″	3/4″	1″
1/8″		●	●	●									
3/16″	●	●	●	●	●	●							
1/4″	●	●	●	●	●	●	●	●					
5/16″		●	●		●	●	●	●		●			
3/8″		●	●	●	●	●	●	●		●			
1/2″	●	●	●	●	●	●	●	●	●	●			
5/8″					●	●	●	●		●	●	●	
3/4″	●	●	●	●	●	●	●	●	●	●	●	●	
7/8″		●			●	●	●	●	●				
1″		●	●	●	●	●	●	●	●	●	●	●	●
1 1/4″					●	●	●	●	●	●	●	●	●
1 1/2″					●	●	●	●	●	●	●	●	●
2″					●	●	●	●	●	●	●	●	●
2 1/2″								●		●	●	●	
3″								●		●	●	●	

Prisionero ALLEN acero aleado métrico

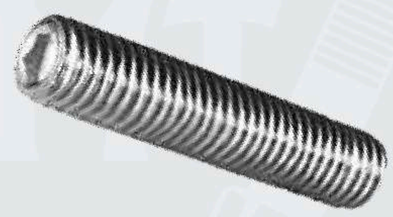
Largo \ Ø	M3	M4	M5	M6	M8	M10	M12	M16
3	●							
4		●						
6	●	●	●	●				
8	●	●	●	●	●			
10	●	●	●	●	●	●		
12	●	●	●	●	●	●	●	
16	●	●	●	●	●	●	●	●
20		●	●	●	●	●	●	●
25			●	●	●	●	●	●
30			●	●	●	●	●	●
35			●	●	●	●	●	●
40			●	●	●	●	●	●
45					●	●	●	●
50					●	●	●	●
55						●	●	●
60						●	●	●

Prisionero ALLEN estándar acero inoxidable



Ø	Largo										
	4-40	5-40	8-32	3/16″	1/4″	5/16″	3/8″	1/2″	5/8″		
1/8″	●										
3/16"	●	●	●	●							
1/4"	●	●	●	●	●	●					
5/16"		●		●	●	●	●				
3/8″	●	●	●	●	●	●	●				
1/2"	●	●	●	●	●	●	●	●			
3/4″	●		●	●	●	●	●	●			
1"			●	●	●	●	●	●	●		
1 1/2"				●	●	●	●	●	●		
2"				●	●	●	●	●	●		

Prisionero ALLEN acero inoxidable



Ø		M3	M4	M5	M6	M8	M10
Largo	3	●					
	4						
	6	●	●	●	●		
	8		●	●	●	●	
	10	●	●	●	●	●	●
	12		●	●	●	●	●
	16		●	●	●	●	●
	20		●	●	●	●	●
	25				●	●	●
	30				●	●	●

Opresor SET cabeza cuadrada

Largo \ Ø	1/4″	5/16″	3/8″	7/16″	1/2″	5/8″	3/4″	7/8″	1″
1/2″	■	■	■						
3/4″	■	■	■	■	■				
1″	■	■	■	■	■	■	■		
1 1/4″	■	■	■	■	■	■			
1 1/2″	■	■	■	■	■	■	■		
2″	■	■	■	■	■	■	■	■	■
2 1/2″	■	■	■	■	■	■	■	■	■
3″	■	■	■	■	■	■	■	■	■
3 1/2″			■	■	■	■	■	■	■
4″			■		■	■	■	■	■
4 1/2″					■	■	■	■	■
5″					■	■	■	■	■
6″					■	■	■	■	■

Tornillo ALLEN guía
acero aleado

Largo \ Ø	1/4″	5/16″	3/8″	1/2″	5/8″	3/4″
1/4″	●					
3/8″	●	●	●			
1/2″	●	●	●	●		
5/8″	●	●	●	●		
3/4″	●	●	●	●		
1″	●	●	●	●		
1 1/4″	●	●	●	●	●	
1 1/2″	●	●	●	●	●	●
1 3/4″	●	●	●	●	●	●
2″	●	●	●	●	●	●
2 1/4″	●	●	●	●	●	●
2 1/2″	●	●	●	●	●	●
3″			●	●	●	●
3 1/4″			●	●	●	●
3 1/2″			●	●	●	●
3 3/4″			●	●	●	●
4″			●	●	●	●
4 1/4″				●	●	
4 1/2″				●	●	●
4 3/4″				●	●	
5″				●	●	●
5 1/2″						●
6″					●	●

Tornillo ALLEN guía
acero aleado métrico

Largo \ Ø	M6	M8	M10	M12	M16
12 mm	●				
16 mm	●	●			
20 mm	●	●	●	●	●
25 mm	●	●	●	●	●
30 mm	●	●	●	●	●
35 mm	●	●	●	●	●
40 mm	●	●	●	●	●
45 mm	●	●	●	●	●
50 mm	●	●	●	●	●
55 mm		●	●	●	●
60 mm		●	●	●	●
65 mm		●	●	●	●
70 mm		●	●	●	●
80 mm		●	●	●	●
90 mm				●	●
100 mm				●	●

Tornillo botón ALLEN
acero inoxidable

Largo \ Ø	4-40	5-40	8-32	3/16″	1/4″	5/16″	3/8″
1/4″	●	●	●	●			
3/8″	●	●	●	●	●	●	
1/2″	●	●	●	●	●	●	●
5/8″					●		
3/4″		●	●	●	●	●	●
1″		●	●	●	●	●	●
1 1/4″			●	●	●	●	●
1 1/2″			●	●	●	●	●
2″				●	●	●	●
2 1/2″					●	●	●
3″					●	●	●

Tornillo botón ALLEN
acero inoxidable métrico

Largo \ Ø	M4	M5	M6	M8	M10
6 mm	●				
8 mm	●	●			
10 mm	●	●			
12 mm	●	●	●		
16 mm	●	●	●	●	
20 mm	●	●	●	●	●
25 mm			●	●	●
30 mm	●	●	●	●	●
35 mm			●	●	●
40 mm	●	●	●	●	●
45 mm			●	●	
50 mm			●	●	●

Tornillo botón ALLEN
acero aleado

Largo \ Ø	4-40	5-40	6-32	8-32	3/16″	1/4″	5/16″	3/8″	1/2″	5/8″
1/4″	●	●	●	●	●					
3/8″	●	●	●	●	●	●	●			
1/2″	●	●	●	●	●	●	●	●		
5/8″					●	●				
3/4″		●	●	●	●	●	●	●	●	
1″		●	●	●	●	●	●	●	●	●
1 1/4″				●	●	●	●	●	●	●
1 1/2″				●	●	●	●	●	●	●
2″					●	●	●	●	●	●
2 1/2″					●	●	●	●	●	
3″						●	●	●	●	

Tornillo botón ALLEN
acero aleado métrico

Largo \ Ø	M4	M5	M6	M8	M10	M12
6 mm	●					
8 mm	●	●				
10 mm	●	●	●	●		
12 mm	●	●	●	●		
16 mm	●	●	●	●		
20 mm	●	●	●	●	●	●
25 mm	●	●	●	●	●	●
30 mm		●	●	●	●	●
35 mm			●	●	●	●
40 mm			●	●	●	●
45 mm					●	●
50 mm					●	●
60 mm					●	●

Tornillo estufa cabeza gota galvanizado NC

Largo \ Ø	1/8"	5/32"	3/16"	1/4"	5/16"	3/8"
1/4"	●	●	●			
3/8"	●	●	●	●		
1/2"	●	●	●	●	●	
5/8"	●	●	●	●	●	
3/4"	●	●	●	●	●	
1"	●	●	●	●	●	●
1 1/4"	●	●	●	●	●	●
1 1/2"	●	●	●	●	●	●
2"	●	●	●	●	●	●
2 1/2"		●	●	●	●	
3"		●	●	●	●	
3 1/2"			●	●	●	
4"		●	●	●		

Tornillo estufa cabeza gota inoxidable 304 NC

Largo \ Ø	5-40	8-32	3/16"	1/4"	5/16"	3/8"
1/4"		●	●			
3/8"	●	●	●			
1/2"	●	●	●	●	●	●
5/8"		●	●	●		
3/4"	●	●	●	●	●	●
1"	●	●	●	●	●	●
1 1/4"		●	●	●	●	●
1 1/2"	●	●	●	●	●	●
2"	●	●	●	●	●	●
2 1/2"			●	●	●	●
3"			●	●	●	●
3 1/2"			●	●	●	●
4"			●	●	●	●

Tornillo cabeza plana **ranurada** inoxidable 304 NC

Largo \ Ø	5-40	8-32	3/16"	1/4"	5/16"	3/8"	1/2"
3/8"	●						
1/2"	●	●	●	●	●	●	
5/8"		●	●	●			
3/4"	●	●	●	●	●	●	
1"	●	●	●	●	●	●	
1 1/4"		●	●	●	●	●	●
1 1/2"		●	●	●	●	●	●
2"		●	●	●	●	●	●
2 1/2"		●	●	●	●	●	●
3"			●	●	●	●	
3 1/2"				●			
4"				●			●

Tornillo cabeza plana **ranurada** inoxidable 304 métrico

Largo \ Ø	M3 0.5	M4 0.7	M5 0.8	M6 1	M8 1.25	M10 1.5	M12 1.75
8 mm	●	●					
10 mm	●	●	●	●			
12 mm	●	●	●	●	●		
16 mm	●	●	●	●	●		
20 mm	●	●	●	●	●	●	●
25 mm	●	●	●	●	●	●	
30 mm	●	●	●	●	●	●	●
35 mm	●	●		●	●	●	
40 mm	●	●	●	●	●	●	●
45 mm						●	
50 mm		●	●	●	●	●	●

Tornillo cabeza plana Tipo 23
TORX galvanizado NC

Resistencia
60,000 PSI

Dureza
70-100 HRB

Ø	Largo				
	1″	1 1/2″	2″	2 1/2″	3″
1/4″	●	●	●	●	●

Tornillo cabeza plana Tipo 23
TORX pavonado NC

Resistencia
60,000 PSI

Dureza
70-100 HRB

Ø	Largo				
	1″	1 1/2″	2″	2 1/2″	3″
1/4″	●	●	●	●	●

Tornillo centro de muelle NC
cabeza estándar

Largo \ Ø	5/16″	3/8″	7/16″	1/2″
3″	●	●		
3 1/2″	●	●		●
4″	●	●	●	●
5″	●	●	●	●
6″	●	●	●	●
8″	●	●	●	●
10″		●	●	●
12″		●	●	●

Tornillo centro de muelle NC
cabeza alta

Largo \ Ø	3/8″	7/16″	1/2″	9/16″
4″			●	
6″	●	●	●	●
8″	●	●	●	●
10″	●	●	●	●
12″	●	●	●	●

Tornillo cabeza de queso ranurado métrico

Largo \ Ø	M2 0.40	M2.5 0.45	M3 0.50	M4 0.70	M5 0.80	M6 1.0	M8 1.25
4 mm	●	●	●				
5 mm	●	●	●	●			
6 mm	●	●	●	●	●		
8 mm	●	●	●	●	●	●	
10 mm	●	●	●	●	●	●	●
12 mm	●	●	●	●	●	●	●
16 mm			●	●	●	●	●
20 mm			●	●	●	●	●
25 mm			●	●	●	●	●
30 mm			●	●	●	●	●
35 mm			●	●	●	●	●
40 mm			●	●	●	●	●
45 mm				●	●	●	●
50 mm				●	●	●	●
60 mm				●	●	●	●
70 mm					●	●	●
80 mm					●	●	●
90 mm					●	●	●
100 mm					●	●	●
110 mm					●	●	●

Tornillo para elevador negro / galvanizado

Ø	Largo 1/4 "	Largo 5/16"	Largo 3/8"
1"	●	●	
1 1/4"	●	●	
1 1/2"	●	●	●

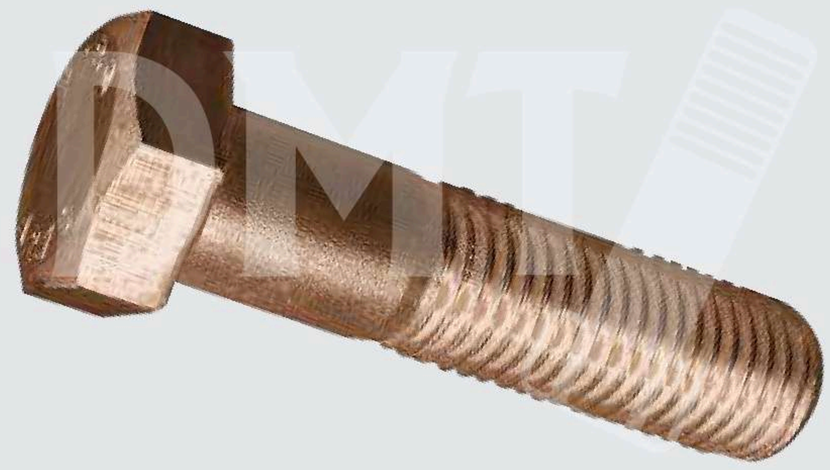
Tornillo para elevador acero inoxidable

Ø	Largo 1/4 "	Largo 5/16"	Largo 3/8"
1"	●	●	
1 1/4"	●		
1 1/2"	●	●	●
2"		●	●

Tornillo cabeza hexagonal laton NC

Largo \ Ø	1/4″	5/16″	3/8″	1/2″	5/8″
1/2″	●	●	●		
3/4″	●	●	●	●	
1″	●	●	●	●	●
1 1/4″	●	●	●	●	●
1 1/2″	●	●	●	●	●
2″	●	●	●	●	●
2 1/2″	●	●	●	●	●
3″	●	●	●	●	●
3 1/2″	●	●	●	●	●
4″	●	●	●	●	●

Tornillo cabeza hexagonal bronce NC



Largo \ Ø	1/4″	5/16″	3/8″	1/2″	5/8″
1/2″	●	●	●		
3/4″	●	●	●	●	
1″	●	●	●	●	●
1 1/4″	●	●	●	●	●
1 1/2″	●	●	●	●	●
2″	●	●	●	●	●
2 1/2″	●	●	●	●	●
3″	●	●	●	●	●
3 1/2″	●	●	●	●	●
4″	●	●	●	●	●

Tuerca hexagonal liviana
rosca estándar/fina negra

NORMA
SAE J995
ASME 18.2.2

Material
Acero bajo carbóno

Ø	Rosca estándar	Rosca fina
1/8″	●	
5/32"	●	
3/16″	●	●
1/4″	●	●
5/16″	●	●
3/8″	●	●
7/16″	●	●
1/2″	●	●
9/16″	●	●
5/8″	●	●
3/4″	●	●
7/8″	●	●
1″	●	●
1 1/8″	●	●
1 1/4″	●	●
1 1/2″	●	●
1 3/4″	●	
2″	●	●
2 1/4″	●	
2 1/2″	●	
2 3/4″	●	
3″	●	

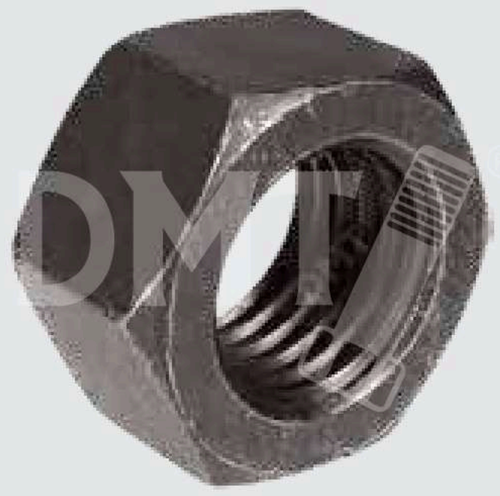
Tuerca hexagonal liviana
rosca estándar/fina galvanizada

NORMA
SAE J995
ASME 18.2.2

Material
Acero bajo carbóno

Ø	Rosca estándar	Rosca fina
1/8″	●	
5/32"	●	
3/16″	●	●
1/4″	●	●
5/16″	●	●
3/8″	●	●
7/16″	●	●
1/2″	●	●
9/16″	●	●
5/8″	●	●
3/4″	●	●
7/8″	●	●
1″	●	●
1 1/8″	●	●
1 1/4″	●	●
1 1/2″	●	●
1 3/4″	●	
2″	●	●
2 1/4″	●	
2 1/2″	●	
2 3/4″	●	
3″	●	

Tuerca hexagonal Grado 5
rosca estándar/fina pavonada



Ø	Rosca estándar	Rosca fina
1/4″	✓	✓
5/16″	✓	✓
3/8″	✓	✓
7/16″	✓	✓
1/2″	✓	✓
9/16″	✓	✓
5/8″	✓	✓
3/4″	✓	✓
7/8″	✓	✓
1″	✓	✓
1 1/8″	✓	✓
1 1/4″	✓	✓
1 3/8″	✓	✓
1 1/2″	✓	✓
1 3/4″	✓	✓
2″	✓	✓
2 1/4″	✓	✓
2 1/2″	✓	✓
2 3/4″	✓	
3″	✓	
3 1/4″	✓	
3 1/2″	✓	

Tuerca hexagonal Gr. DH
ASTM A563

Ø	Pavonada	Galvanizada por inmersión
1/2″	✓	✓
5/8″	✓	✓
3/4″	✓	✓
7/8″	✓	✓
1″	✓	✓
1 1/8″	✓	✓
1 1/4″	✓	✓
1 1/2″	✓	✓

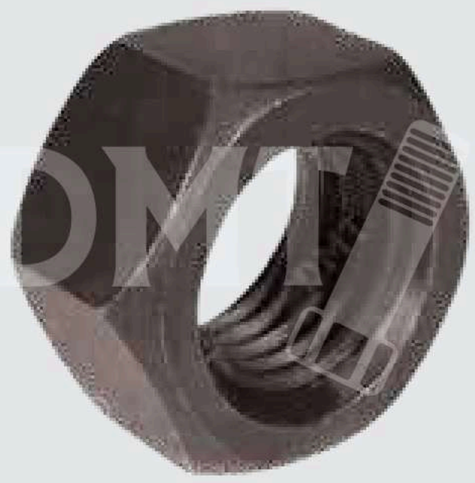
Tuerca hexagonal ASTM A194 pavonada

Ø	2H	2HM
1/4″	✓	
5/16″	✓	
3/8″	✓	
1/2″	✓	✓
9/16″	✓	✓
5/8″	✓	✓
3/4″	✓	✓
7/8″	✓	✓
1″	✓	✓
1 1/8″	✓	✓
1 1/4″	✓	✓
1 3/8″	✓	✓
1 1/2″	✓	✓
1 3/4″	✓	✓
2″	✓	✓
2 1/4″	✓	✓
2 1/2″	✓	✓
2 3/4″	✓	✓
3″	✓	✓
3 1/4″	✓	✓
3 1/2″	✓	✓
3 3/4″	✓	✓
4″	✓	✓

Tuerca hexagonal ASTM A194 inoxidable

Ø	Grado 8	Grado 8M
1/4″	✓	✓
5/16″	✓	✓
3/8″	✓	✓
7/16″		
1/2″	✓	✓
9/16″	✓	✓
5/8″	✓	✓
3/4″	✓	✓
7/8″	✓	✓
1″	✓	✓
1 1/8″	✓	✓
1 1/4″	✓	✓
1 3/8″		
1 1/2″	✓	✓

Tuerca Grado 8 hexagonal
rosca estándar/fina pavonada



NORMA
ANSI / ASME 18.2.2

Material
Acero
medio carbóno

Ø	Rosca estándar	Rosca fina
1/4″	✓	✓
5/16″	✓	✓
3/8″	✓	✓
7/16″	✓	✓
1/2″	✓	✓
9/16″	✓	✓
5/8″	✓	✓
3/4″	✓	✓
7/8″	✓	✓
1″	✓	✓
1 1/8″	✓	✓
1 1/4″	✓	✓
1 3/8″	✓	✓
1 1/2″	✓	✓
1 3/4″	✓	
2″	✓	

Tuerca hexagonal clase 8
métrica

NORMA
DIN-934

Dureza especificada
Mínima 30 HRC

Ø	Paso	
M 3	0.50	✓
M 4	0.70	✓
M 5	0.80	✓
M 6	1.00	✓
M 7	1.00	✓
M 8	1.25	✓
M 8	1.00	✓
M 10	1.50	✓
M 10	1.25	✓
M 10	1.00	✓
M 12	1.75	✓
M 12	1.50	✓
M 12	1.25	✓
M 14	2.00	✓
M 14	1.50	✓
M 16	2.00	✓
M 16	1.50	✓
M 18	2.50	✓
M 20	2.50	✓
M 22	2.50	✓
M 24	3.00	✓
M 30	3.50	✓

Tuerca hexagonal liviana
Galvanizada por inmersión en caliente

Ø	GIC
1/4″	●
5/16″	●
3/8″	●
7/16″	●
1/2″	●
9/16″	●
5/8″	●
3/4″	●
7/8″	●
1″	●
1 1/8″	●
1 1/4″	●
1 3/8″	●
1 1/2″	●

Tuerca hexagonal
ASTM A194 2H
GIC Y CADMINIZADA

Ø	GIC	CADMINIZADA
1/4″		●
5/16″		●
3/8″	●	●
1/2″	●	●
5/8″	●	●
3/4″	●	●
7/8″	●	●
1″	●	●
1 1/8″	●	●
1 1/4″	●	●
1 3/8″	●	●
1 1/2″	●	●
1 3/4″	●	●
2″	●	●
2 1/4″	●	●
2 1/2″		●
2 3/4″		●
3″		●
3 1/4″		●
3 1/2″		●

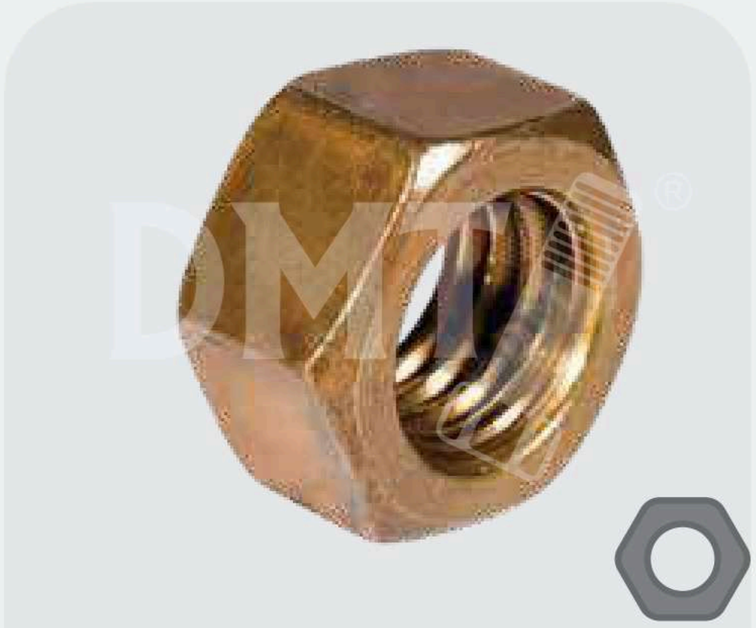
Tuerca hexagonal rosca estándar T-316 inoxidable

Ø	No. de cuerdas
5/32"	
3/16"	
1/4"	
5/16"	
3/8"	
1/2"	
5/8"	
3/4"	
7/8"	
1"	
1 1/8"	
1 1/4"	

Tuerca hexagonal rosca estándar latón

Ø	
1/8"	
5/32"	
3/16 "	
1/4"	
5/16"	
3/8"	
1/2"	
5/8"	
3/4"	
1"	

Tuerca hexagonal rosca estándar bronce



Ø	
1/8"	
5/32"	
3/16 "	
1/4"	
5/16"	
3/8"	
1/2"	
5/8"	
3/4"	
1"	

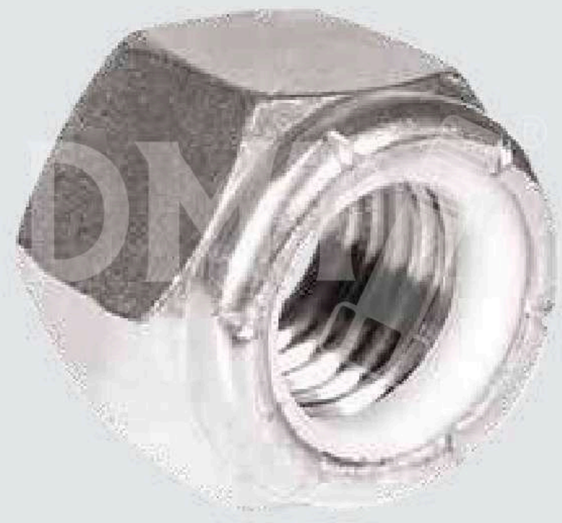
Tuerca hexagonal métrica T-304 inoxidable

Ø
M 3
M 4
M 5
M 6
M 8
M 10
M 12
M 14
M 16
M 20
M 24

Tuerca hexagonal rosca estándar T-304 inoxidable

Ø	Paso
8-32	32
10-24	24
10-32	32
1/4″	20
1/4″	28
5/16″	18
5/16″	24
3/8″	16
3/8″	24
7/16″	14
1/2″	13
1/2″	20
5/8″	11
5/8″	18
3/4″	10
3/4″	16
7/8″	9
1″	8
1 1/8″	7
1 1/4″	7
1 1/2″	6

Tuerca seguridad inserto NYLON rosca estándar y fina galvanizada



Ø	No. de cuerdas
6-32	32
8-32	32
10-24	24
10-32	32
1/4″	20
1/4″ NF	28
5/16″	18
5/16″ NF	24
3/8″	16
3/8″ NF	24
7/16″	14
7/16″ NF	20
1/2″	13
1/2″ NF	20
9/16″	12
9/16″ NF	18

Ø	No. de cuerdas
5/8″	11
5/8″ NF	18
3/4″	10
3/4″ NF	16
7/8″	9
7/8″ NF	14
1″	8
1″ NF	12
1 1/8″	7
1 1/8″ NF	12
1 1/4″	7
1 1/4″ NF	112
1 1/2″	6
1 1/2″ NF	12

Tuerca bellota inoxidable / galvanizada

Ø	Galvanizada	Inoxidable
316”	✓	✓
1/4”	✓	✓
5/16”	✓	✓
3/8”	✓	✓
1/2”		✓
5/8”		✓

Tuerca flange métrica

Ø	Paso
6M	1.0
8M	1.3
10M	1.5
12M	1.8
14M	2.0
16M	2.0

Tuerca gripco NC

Material
F812-07
GRADO C
Dureza especificada
Grado 8

Diámetro			
1/4”	(TA346)	5/8”	(TA358)
5/16”	(TA348)	3/4”	(TA360)
3/8”	(TA350)	7/8”	(TA362)
7/16”	(TA352)	1”	(TA364)
1/2”	(TA354)	1 1/4”	(TA366)
9/16”	(TA356)		

Tuerca mariposa galvanizada

Ø	No. de cuerdas
5 -32	32
10-24	24
1/4”	20
5/16”	18
3/8”	16
1/2”	13

Tuerca flange

Ø	Estándar	Fina
3/16”	24	32
1/4”	20	28
5/16”	18	24
3/8”	16	24
7/16”	14	20
1/2”	13	20
5/16”	11	
3/4”	10	

Tuerca gripco NF

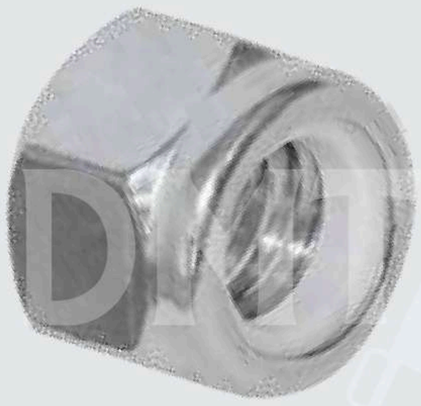
Material
F812-07
GRADO C
Dureza especificada
Grado 8

Diámetro			
1/4”	(TA345)	9/16”	(TA355)
5/16”	(TA347)	5/8”	(TA357)
3/8”	(TA349)	3/4”	(TA359)
7/16”	(TA351)	7/8”	(TA361)
1/2”	(TA353)	1”	(TA363)

Tuerca seguridad inserto NYLON rosca estándar inoxidable T-304

Ø	Cuerdas por Pulgada
1/8”	40
5/32″	32
316″	24
1/4″	20
5/16″	18
3/8″	16
1/2″	13
5/8″	11
3/4″	10
1″	8
1 1/8”	7
1 1/4″	7
1 1/2”	6

Tuerca seguridad inserto NYLON métrica inoxidable T-304



Ø
M3
M4
M5
M6
M8
M10
M12
M14
M16
M18
M20
M24

Tuerca mariposa inoxidable

Ø	No. de cuerdas
#8	32
#10	24
1/4″	20
5/16″	18
3/8″	16
1/2″	13

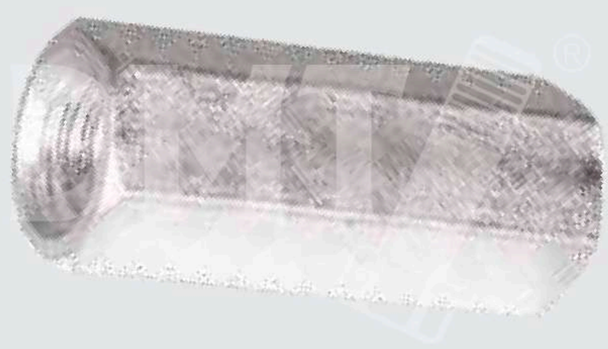
Tuerca para canal resorte corto

Ø
1/4″
5/16″
3/8″
1/2″

Tuerca palnut

Ø
5/8″
3/4″

Cople hexagonal



Cuerda (mm)	Cuerda (in)	Diámetro exterior	Largo total
6.5 mm	1/4″	3/8″	7/8″
7.9 mm	5/16″	1/2″	1″
9.5 mm	3/8″	1/2″	1 1/8″
13 mm	1/2″	5/8″	1 1/4″
16 mm	5/8″	3/4″	2 1/8 ″
19 mm	3/4″	1″	2 1/4″
22 mm	7/8″	1 1/4″	2 1/2″
25 mm	1″	1 1/4″	2 1/2″

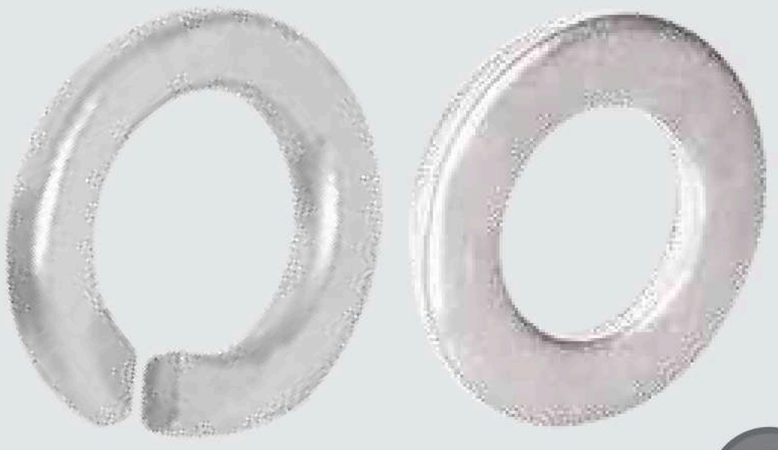
Arandela de presión/plana estándar

Ø	Presión negra	Presión galvanizada	Plana galvanizada
1/8″	C	C	O
5/32″	C	C	O
3/16″	C	C	O
1/4″	C	C	O
5/16″	C	C	O
3/8″	C	C	O
7/16″	C	C	O
1/2″	C	C	O
9/16″	C	C	O
5/8″	C	C	O
3/4″	C	C	O
7/8″	C	C	O
1″	C	C	O
1 1/8″	C	C	O
1 1/4″	C	C	O
1 3/8″	C	C	O
1 1/2″	C	C	O
1 3/4″	C	C	O
2″	C	C	O
2 1/2″			O

Arandela galvanizada de presión/plana métrica

Ø	Presión	Plana
M 3	C	O
M 4	C	O
M 5	C	O
M 6	C	O
M 7	C	O
M 8	C	O
M 10	C	O
M 12	C	O
M 14	C	O
M 16	C	O
M 18	C	O
M 20	C	O
M 22	C	O
M 24	C	O
M 30	C	O
M 33	C	O
M 36	C	O

Arandela Galv x Inmersión
presión/plana



Ø	Presión	Plana
1/4″	C	
5/16″	C	
3/8″	C	O
7/16″	C	O
1/2″	C	O
9/16″	C	O
5/8″	C	O
3/4″	C	O
7/8″	C	O
1″	C	O
1 1/8″	C	O
1 1/4″	C	O
1 3/8″	C	O
1 1/2″	C	O

Arandela plana
ASTM F-436

Ø	Pavonada	Cadminizada	GIC
1/4″	O	O	O
5/16″	O	O	O
3/8″	O	O	O
7/16″	O	O	O
1/2″	O	O	O
9/16″	O	O	O
5/8″	O	O	O
3/4″	O	O	O
1 3/16″	O	O	O
7/8″	O	O	O
1″	O	O	O
1 1/8″	O	O	O
1 1/4″	O	O	O
1 3/8″	O	O	O
1 1/2″	O	O	O
1 3/4″	O	O	O
2″	O	O	O
2 1/4″	O	O	O
2 1/2″	O	O	O
3″	O	O	O
3 1/2″	O	O	O

Arandela inoxidable T-304
estándar presión/plana

Ø	Presión	Plana
1/8"	C	O
5/32"	C	O
3/16"	C	O
1/4"	C	O
5/16"	C	O
3/8"	C	O
7/16"	C	O
1/2"	C	O
5/8"	C	O
3/4"	C	O
7/8"	C	O
1"	C	O
1 1/8"	C	O
1 1/4"	C	O
1 1/2"	C	O
2"		O

Arandela inoxidable T-304
métrica presión/plana

Ø	Presión	Plana
3 mm	C	O
4 mm	C	O
5 mm	C	O
6 mm	C	O
8 mm	C	O
10 mm	C	O
12 mm	C	O
14 mm	C	O
16 mm	C	O
20 mm	C	O
24 mm	C	O
30 mm	C	O

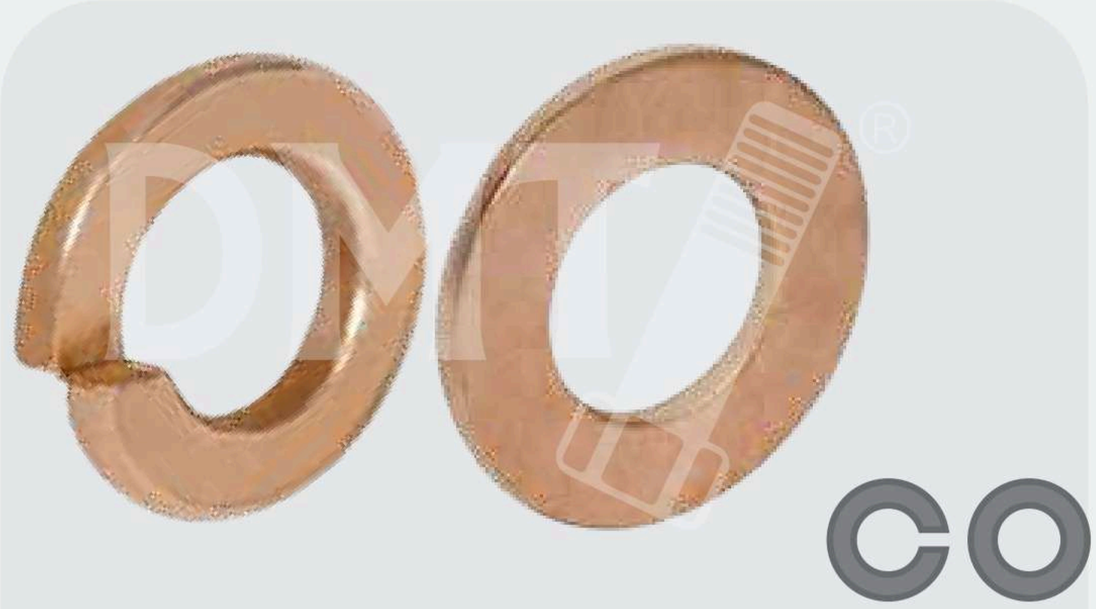
Arandela inoxidable T-316
estándar presión/plana

Ø	Presión	Plana
1/8"	C	O
5/32"	C	O
3/16"	C	O
1/4"	C	O
5/16"	C	O
3/8"	C	O
7/16"	C	O
1/2"	C	O
5/8"	C	O
3/4"	C	O
7/8"	C	O
1"	C	O
1 1/8"	C	O
1 1/4"	C	O
1 1/2"	C	

Arandela latonada
presión/plana

Ø	Presión	Plana
1/8"	C	O
5/32"	C	O
3/16"	C	O
1/4"	C	O
5/16"	C	O
3/8"	C	O
1/2"	C	O
5/8"	C	O
3/4"		O
1"		O

Arandela bronce
presión/plana



Ø	Presión	Plana
1/8″	C	O
5/32″	C	O
3/16″	C	O
1/4″	C	O
5/16″	C	O
3/8″	C	O
1/2″	C	O
5/8″	C	O
3/4″	C	O
1″		O

Arandela estriada
sin acabado/galvanizado

Ø	Sin acabado	Galvanizado
No. 6	✓	✓
No. 8	✓	✓
No. 10	✓	✓
No. 12	✓	✓
1/4″	✓	✓
5/16″	✓	✓
3/8″	✓	✓
7/16″	✓	✓
1/2″	✓	✓
9/16″	✓	✓
5/8″	✓	✓
3/4″	✓	✓
7/8″	✓	✓
1″	✓	✓

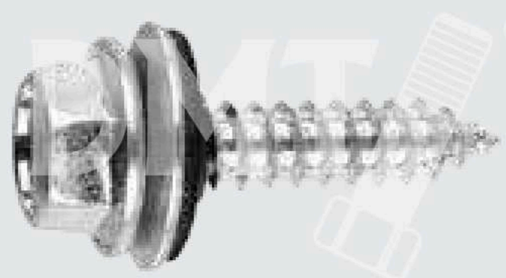
Nota: Positiva acción expansiva

Nota: Positiva acción de resorte

Pija cabeza hexagonal inoxidable T-304

Largo \ Ø	No.6	No.8	No.10	No.12	No.14
1/2″	●	●	●	●	●
5/8″	●	●	●		
3/4″	●	●	●	●	●
1″	●	●	●	●	●
1 1/4″		●	●	●	●
1 1/2″		●	●	●	●
2″		●	●	●	●
2 1/2″			●	●	●
3″			●	●	●
3 1/2″					●
4″					●
5″					●
6″					●

Pija cabeza hexagonal inoxidable con accesorio



Largo	1/4″	1″	1 1/4″	1 1/2″	2″	2 1/2″	3″	3 1/2″
Ø 1/4″	●	●	●	●	●	●	●	●

Pija cabeza hexagonal rosca estándar AB

Largo \ Ø	No.6	No.8	No.10	No.12	No.14	No.16
3/8″	●	●	●			
1/2″	●	●	●	●	●	
5/8″	●	●	●		●	
3/4″	●	●	●	●	●	●
1″	●	●	●	●	●	●
1 1/4″		●	●	●	●	●
1 1/2″		●	●	●	●	●
2″		●	●	●	●	●
2 1/2″					●	●
3″			●		●	●
3 1/2″					●	●
4″					●	●
5″					●	
6″					●	

Nota: Para lámina galvanizada

Pija cabeza plana
phillips punta AB galvanizada

Largo \ Ø	No.4	No.6	No.8	No.10	No.12	No.14
1/2″	⊖	⊖	⊖	⊖		
5/8″	⊖	⊖	⊖	⊖	⊖	
3/4″	⊖	⊖	⊖	⊖	⊖	
1″		⊖	⊖	⊖	⊖	⊖
1 1/4″			⊖	⊖	⊖	⊖
1 1/2″			⊖	⊖	⊖	⊖
2″		⊖	⊖	⊖		⊖
2 1/2″			⊖			⊖
3″			⊖			⊖

Pija cabeza plana
phillips inoxidable T-304

Largo \ Ø	No.4	No.6	No.8	No.10	No.12	No.14
1/4″		⊕				
3/8″	⊕	⊕				
1/2″	⊕	⊕	⊕	⊕	⊕	⊕
5/8″		⊕				
3/4″	⊕	⊕	⊕	⊕	⊕	⊕
1″	⊕	⊕	⊕	⊕	⊕	⊕
1 1/4″		⊕	⊕	⊕	⊕	⊕
1 1/2″	⊕	⊕	⊕	⊕	⊕	⊕
2″		⊕	⊕	⊕	⊕	⊕
2 1/2″		⊕	⊕	⊕	⊕	⊕
3″			⊕	⊕	⊕	⊕
3 1/2″				⊕	⊕	⊕
4″				⊕	⊕	⊕

Pija cabeza fijadora
punta AB galvanizada

Largo \ Ø	No.4	No.6	No.8	No.10	No.12	No.14
1/4″	⊕	⊕				
3/8″	⊕	⊕	⊕	⊕		
1/2″	⊕	⊕	⊕	⊕	⊕	⊕
5/8″	⊕	⊕	⊕	⊕	⊕	⊕
3/4″	⊕	⊕	⊕	⊕	⊕	⊕
1″	⊕	⊕	⊕	⊕	⊕	⊕
1 1/4″		⊕	⊕	⊕	⊕	⊕
1 1/2″		⊕	⊕	⊕	⊕	⊕
2″		⊕	⊕	⊕	⊕	⊕
2 1/2″			⊕	⊕	⊕	⊕
3″			⊕	⊕	⊕	⊕

Pija cabeza fijadora
phillips inoxidable T-304

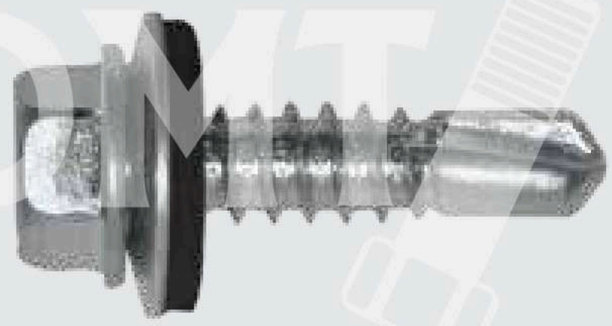
Largo \ Ø	No.4	No.6	No.8	No.10	No.12	No.14
1/4″		⊕				
3/8″	⊕	⊕	⊕			
1/2″	⊕	⊕	⊕	⊕	⊕	⊕
5/8″		⊕	⊕	⊕		
3/4″	⊕	⊕	⊕	⊕	⊕	⊕
1″	⊕	⊕	⊕	⊕	⊕	⊕
1 1/4″		⊕	⊕	⊕	⊕	⊕
1 1/2″		⊕	⊕	⊕	⊕	⊕
2″		⊕	⊕	⊕	⊕	⊕
2 1/2″			⊕	⊕	⊕	⊕
3″			⊕	⊕	⊕	⊕
3 1/2″				⊕		
4″				⊕		

Pija estructural cabeza hexagonal
punta de broca sin accesorio

NORMA	ASME B18.6.4 / SAE J-78 / SAE 1022
Superficie 52 - 58 HRC	**Núcleo** 32 - 40 HRC

Ø	Largo											
	1/2″	3/4″	1″	1 1/4″	1 1/2″	2″	2 1/2″	3″	3 1/2″	4″	5″	6″
8	●	●	●									
10	●	●	●	●	●							
12		●	●	●	●	●	●	●	●			
14		●	●	●	●	●	●	●	●	●	●	●

Pija estructural cabeza hexagonal
punta de broca con accesorio



NORMA	ASME B18.6.4 / SAE J-78 / SAE 1022
Superficie 52 - 58 HRC	**Núcleo** 32 - 40 HRC

Ø	Largo										
	3/4″	1″	1 1/4″	1 1/2″	2″	2 1/2″	3″	3 1/2″	4″	5″	6″
8	●										
10	●	●	●	●							
12	●	●			●						
14	●	●	●	●	●	●	●	●	●	●	●

Pija estructural cabeza hexagonal punta de broca acero inoxidable

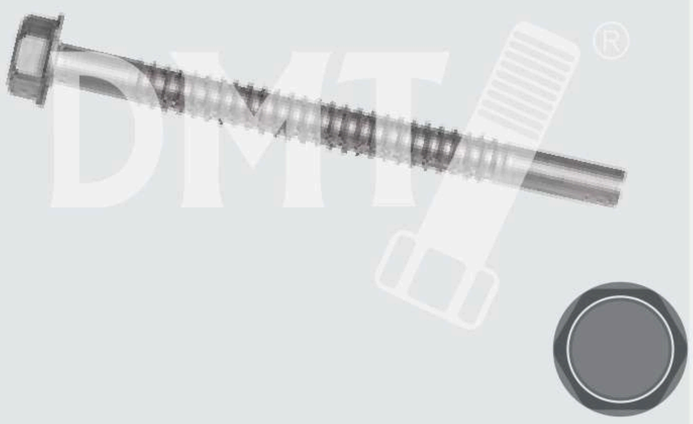
NORMA	ASTM F593 ANSI B18.6.4
Dureza 65 MIN - 95 MAX HRB	**Tipo** AISI **410**

Ø	Largo								
	1/2″	3/4″	1″	1 1/4″	1 1/2″	2″	2 1/2″	3″	5″
8	●	●	●						
10	●	●	●		●	●	●		
12		●	●	●	●	●	●	●	
14		●	●	●	●	●	●	●	●

Pija LAP cabeza hexagonal punta de broca

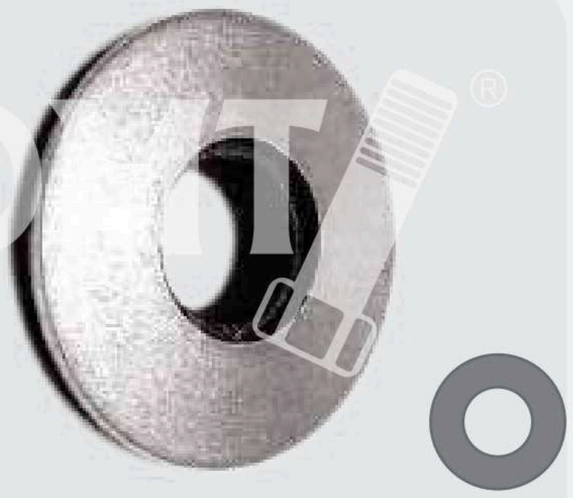
Ø	Largo	
	7/8″	
1/4″	●	

Pija ciclonica



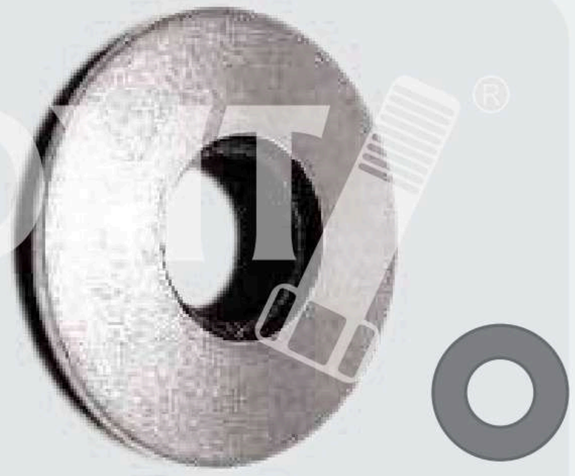
Ø	Largo	
	2″	3″
No. 10	●	●

Accesorio para pija, galvanizada



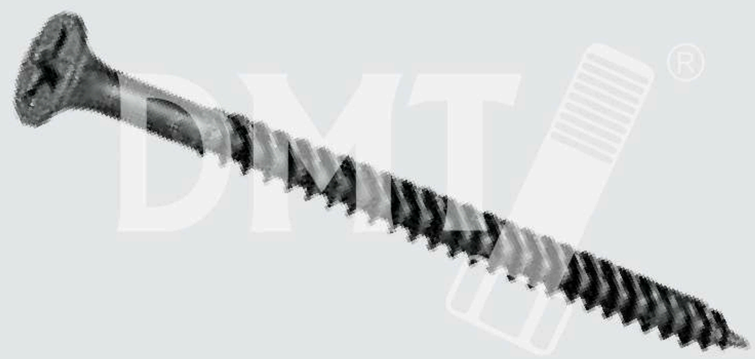
Ø	Importada	Nacional
10	○	
12	○	
14	○	○

Accesorio para pija, inoxidable



Ø	AISI 304
8	○
10	○
12	○
14	○

Pija para tablaroca STITCHERS (ST) cabeza de corneta phillips fosfatado gris



Ø	Largo														
	1/2"	5/8"	3/4"	1"	1 1/8"	1 1/4"	1 1/2"	1 5/8"	2"	2 1/2"	3"	3 1/2"	4"	5"	6"
6	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕					
7										⊕					
8	⊕		⊕	⊕		⊕	⊕		⊕	⊕	⊕				
10										⊕	⊕	⊕	⊕	⊕	⊕

Nota: Pija para tablaroca

Pija para aglomerado GRIPPERS (GR) cabeza de corneta phillips

No.	Largo															
	1/2"	5/8"	3/4"	1"	1 1/8"	1 1/4"	1 1/2"	1 5/8"	1 3/4"	2"	2 1/2"	3"	3 1/2"	4"	5"	6"
6	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕		⊕						
7											⊕					
8	⊕		⊕	⊕		⊕	⊕	⊕	⊕	⊕	⊕	⊕				
9											⊕					
10			⊕	⊕		⊕	⊕		⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
12				⊕		⊕	⊕			⊕	⊕	⊕	⊕	⊕		
14							⊕			⊕	⊕	⊕	⊕	⊕		

Nota: Pija para aglomerado

Pija para aglomerado GRIPPERS (GR)

NIB 4 Phillips

Ø	Largo														
	1/2″	5/8″	3/4″	1″	1 1/8″	1 1/4″	1 1/2″	1 5/8″	2″	2 1/2″	3″	3 1/2″	4″	5″	6″
6	⊕	⊕	⊕	⊕	⊕	⊕	⊕		⊕						
8	⊕		⊕	⊕		⊕	⊕		⊕	⊕	⊕				
10			⊕	⊕		⊕	⊕		⊕	⊕	⊕	⊕	⊕	⊕	
12						⊕	⊕		⊕	⊕	⊕	⊕	⊕		
14							⊕		⊕	⊕	⊕	⊕	⊕		

Nota: Pija multiusos

Pija para aglomerado combinado

NIB 4 Cuadro/Phillips

No.	Largo															
	1/2″	5/8″	3/4″	1″	1 1/8″	1 1/4″	1 1/2″	1 5/8″	1 3/4″	2″	2 1/2″	3″	3 1/2″	4″	5″	6″
5	⊕	⊕								⊕						
6	⊕	⊕	⊕	⊕			⊕			⊕						
8	⊕		⊕	⊕		⊕	⊕		⊕	⊕	⊕	⊕				
10			⊕	⊕		⊕	⊕		⊕	⊕	⊕	⊕	⊕	⊕		
12									⊕	⊕	⊕	⊕	⊕	⊕		
14									⊕	⊕	⊕	⊕	⊕	⊕	⊕	

Pija para aglomerado niquelado

Ø	Largo		
	1/2″	5/8″	3/4″
6	⊕	⊕	
8		⊕	⊕

Pija cabeza TRUSS
phillips

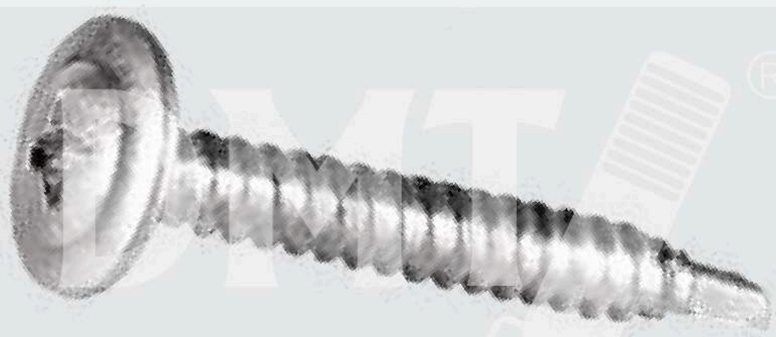
No.	Largo				
	1/2"	5/8"	3/4"	1"	1 1/4"
8	+	+	+	+	+
10	+		+	+	+

Nota: Para unir metal a metal

Pija DUROCK

Ø	Largo		
	NIB	1 1/4"	1 5/8"
8	NIB 4	+	
8	NIB 6	+	+
8	NIB 8	+	+

Pija cabeza TRUSS
punta de broca



Ø	Largo							
	1/2"	3/4"	1"	1 1/4"	1 1/2"	1 5/8"	2"	2 1/2"
8	+	+	+	+	+	+	+	+
10	+	+	+		+			

Pija cabeza fijadora
punta de broca

Ø	Largo			
	1/2"	3/4"	1"	11/2"
8	+	+	+	+
10	+	+	+	+

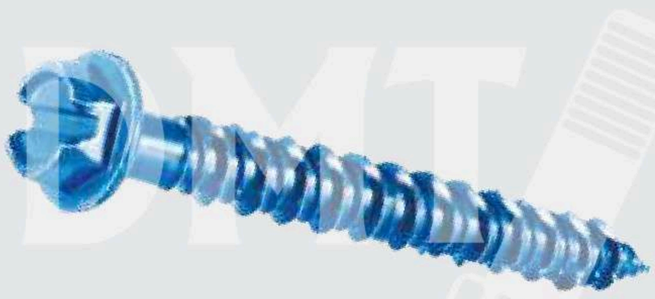
Pija cabeza plana
punta de broca

Ø	Largo							
	1/2″	3/4″	1″	1 1/8″	1 1/4″	1 5/8″	2 3/8″	3″
6			+	+	+	+		
8	+	+	+		+	+	+	+
10		+	+					

Pija latonada

Ø	Largo	
	#6	#8
3/4″	+	+
1″		+

Pija para concreto
cabeza hexagonal

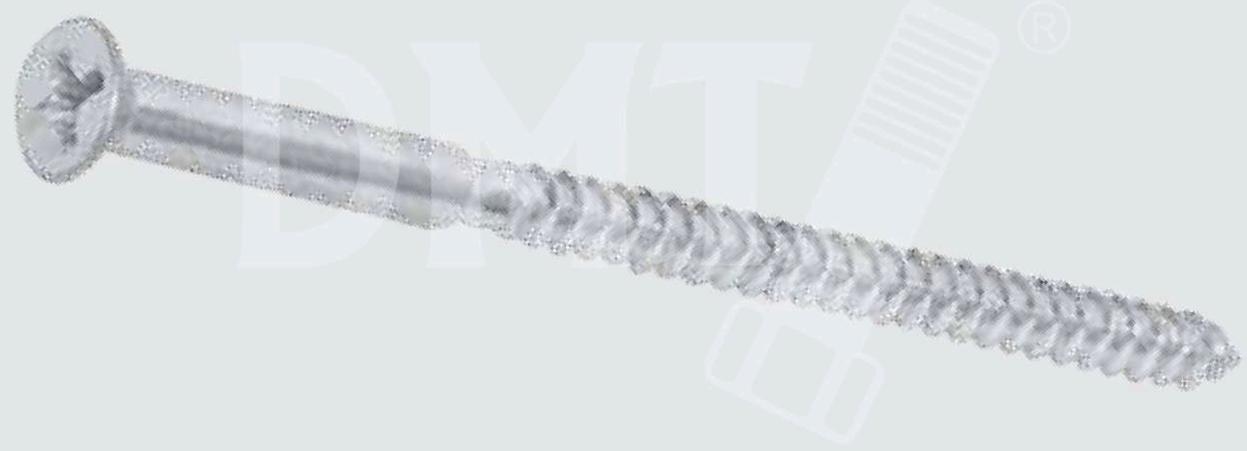


Ø	Largo					
	1 1/4“	1 3/4”	2 1/4“	2 3/4”	3 1/4”	4”
3/16″		⊖	⊖	⊖	⊖	⊖
1/4″	⊖	⊖	⊖	⊖	⊖	⊖

Pija para concreto
cabeza plana

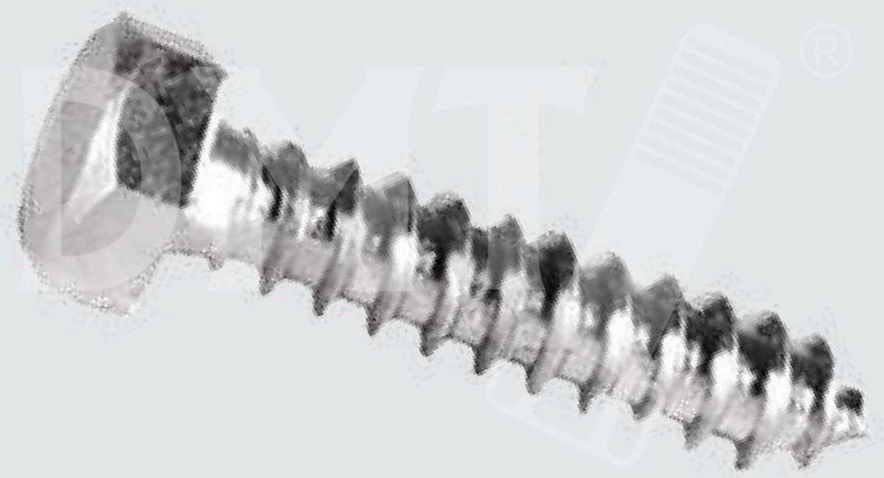
Ø	Largo				
	1 1/4″	2 1/4″	2 3/4″	3 1/4″	4″
3/16″		+		+	+
1/4″	+	+	+	+	+

Pija para madera
cabeza plana phillips galvanizada



Largo \ Ø	3	4	5	6	7	8	9	10	11	12	14
10 mm											
13 mm	+	+	+	+		+					
17 mm	+	+	+	+		+					
20 mm		+	+	+	+	+	+	+			
25 mm		+	+	+	+	+	+	+		+	
32 mm				+	+	+	+	+		+	
40 mm				+	+	+	+	+		+	+
45 mm				+	+	+	+	+		+	+
50 mm					+	+	+	+	+	+	+
65 mm						+	+	+	+	+	+
75 mm						+		+	+	+	+
90 mm										+	+
100 mm								+		+	+

Pija hexagonal para madera



Largo \ Ø	1/4″	5/16″	3/8″	1/2″	5/8″	3/4″
1″			⬢			
1 1/2″	⬢		⬢	⬢		
2″	⬢	⬢	⬢	⬢		
2 1/2″			⬢	⬢		
3″		⬢	⬢	⬢	⬢	
3 1/2″		⬢	⬢	⬢	⬢	⬢
4″		⬢	⬢	⬢	⬢	⬢
4 1/2″		⬢	⬢	⬢	⬢	
5″		⬢	⬢	⬢	⬢	⬢
5 1/2″						
6″		⬢	⬢	⬢	⬢	⬢
7″				⬢		

Varilla roscada estándar galvanizada

Resistencia
74,000 PSI

Dureza
70 - 95 HB

Largo \ Ø	1.0 mt	1.20 mts	3.0 mts
3/16"	●		
1/4"	●	●	●
5/16"	●	●	●
3/8"	●	●	●
7/16"	●		
1/2"	●	●	●
5/8"	●		●
3/4"	●		●
7/8"	●		●
1"	●		●
1 1/8"	●		●
1 1/4"	●		●
1 1/2"	●		●

Varilla roscada estándar acero inoxidable 304/316

NORMA
ASME B1.1 / ASTM F593

Tracción (PSI)	Dureza
85,000	65 - 95 HB

Largo \ Ø	36" Tipo 304	36" Tipo 316
3/16"	●	●
1/4"	●	●
5/16"	●	●
3/8"	●	●
7/16"	●	
1/2"	●	●
5/8"	●	●
3/4"	●	●
7/8"	●	●
1"	●	●
1 1/8"	●	●
1 1/4"	●	
1 1/2"	●	

Varilla roscada métrica acero inoxidable T-304

NORMA
ASME B1.1 / ASTM F593

Tracción (PSI)	Dureza
85,000	65 - 95 HB

Largo Ø	Tipo 304
4 mm	●
5 mm	●
6 mm	●
8 mm	●
10 mm	●
12 mm	●
14 mm	●
16 mm	●
18 mm	●
20 mm	●
24 mm	●

Varilla roscada bronce/latón

Largo Ø	Bronce 1 mt	Latón 1 mt
1/4"	●	●
5/16"	●	●
3/8"	●	●
1/2"	●	●
5/8"	●	●
3/4"	●	●
1"	●	●

Propiedades mecánicas
para diámetros de 1/2″ a 4″

Grado	Resistencia a la tensión (KSI) MIN	Lim. elástico (KSI) MIN	Elongación %	Reducción de área%	Dureza máxima HB
B-7	115	95	16	50	302
B-7M	100	80	18	50	235
B-16	110	95	47	45	302
B-8	75	30	30	50	95 HRB
B-8M	75	30	30	50	95 HRB

Espárrago roscado 3.65 m
B-7, B-7M, B16, B-8 Y B-8M sin acabado

Ø	B-7	B-7M	B-16	B-8	B-8M
1/2″	●	●		●	●
5/8″	●	●	●	●	●
3/4″	●	●	●	●	●
7/8″	●	●	●	●	●
1″	●	●	●	●	●
1 1/8″	●	●	●	●	●
1 1/4″	●	●	●	●	●
1 3/8″	●	●	●	●	●
1 1/2″	●	●	●	●	●
1 5/8″	●	●	●		
1 3/4″	●	●	●		
1 7/8″	●	●	●		
2″	●	●	●		
2 1/4″	●	●			
2 1/2″	●	●			
3″	●	●			
3 1/2″	●	●			

Cortes de espárrago petrolero

Recubrimientos

- Galvanizado
- Tropicalizado
- Cadminizado
- Inmersión en caliente
- Teflón
- Xylan

Largo \ Ø	1/2″	5/8″	3/4″	7/8″	1″	1 1/8″	1 1/4″	1 3/8″	1 1/2″	1 5/8″	1 3/4″	1 7/8″	2″	2 1/4″	2 1/2″
1 1/2″	●	●	●	●	●										
1 3/4″	●	●	●	●	●										
2″	●	●	●	●	●										
2 1/4″	●	●	●	●	●										
2 1/2″	●	●	●	●	●										
2 3/4″	●	●	●	●	●										
3″	●	●	●	●	●										
3 1/4″	●	●	●	●	●										
3 1/2″	●	●	●	●	●										
3 3/4″	●	●	●	●	●	●	●	●	●	●					
4″	●	●	●	●	●	●	●	●	●	●					
4 1/4″	●	●	●	●	●	●	●	●	●	●					
4 1/2″	●	●	●	●	●	●	●	●	●	●					
4 3/4″	●	●	●	●	●	●	●	●	●	●	●	●	●		
5″	●	●	●	●	●	●	●	●	●	●	●	●	●		
5 1/4″	●	●	●	●	●	●	●	●	●	●	●	●	●		
5 1/2″	●	●	●	●	●	●	●	●	●	●	●	●	●		
5 3/4″	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
6″	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
6 1/4″	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
6 1/2″	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
6 3/4″	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
7″	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
7 1/4″	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
7 1/2″	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

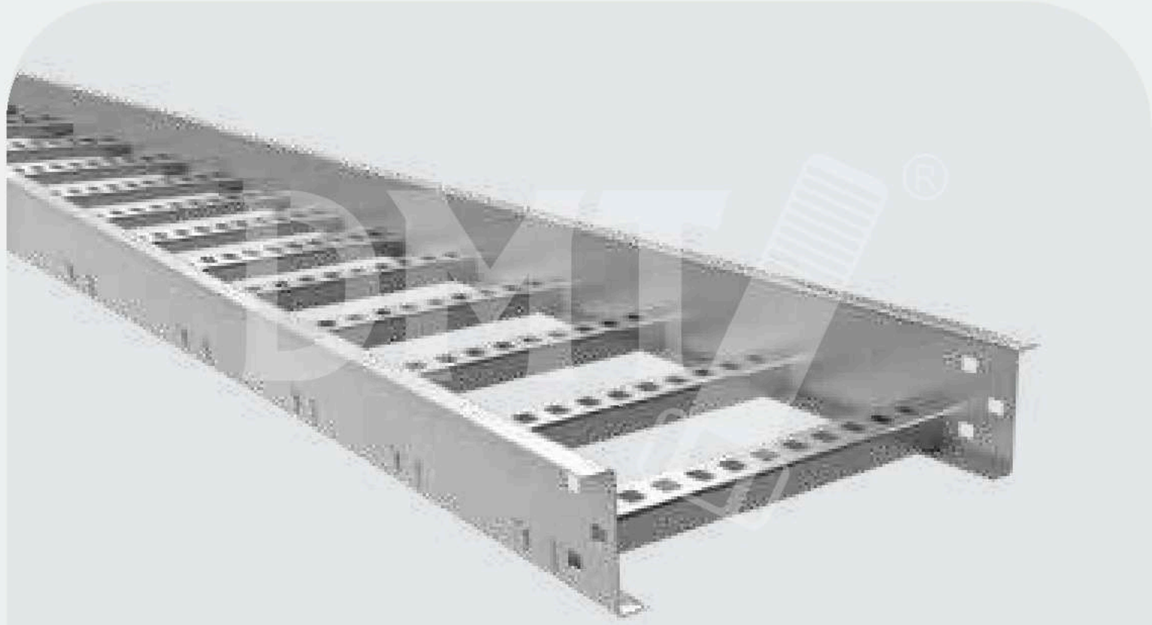
Cortes de espárrago petrolero

Largo \ Ø	1/2″	5/8″	3/4″	7/8″	1″	1 1/8″	1 1/4″	1 3/8″	1 1/2″	1 5/8″	1 3/4″	1 7/8″	2″	2 1/4″	2 1/2″
7 3/4″	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
8″	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
8 1/4″	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
8 1/2″	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
8 3/4″	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
9″	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
9 1/4″	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
9 1/2″	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
9 3/4″	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
10″	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
10 1/4″	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
10 1/2″	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
10 3/4″	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
11″	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
11 1/4″	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
11 1/2″	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
11 3/4″	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
12″	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
12 1/4″	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
12 1/2″	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
12 3/4″	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
12 3/4″	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
13″	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
13 1/4″	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
13 1/2″	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
13 3/4″	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
14″	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
14 1/4″	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
14 1/2″	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
14 3/4″	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
15″	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
15 1/4″	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
15 1/2″	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
15 3/4″	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
16″	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
16 1/4″	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

Cortes de espárrago petrolero

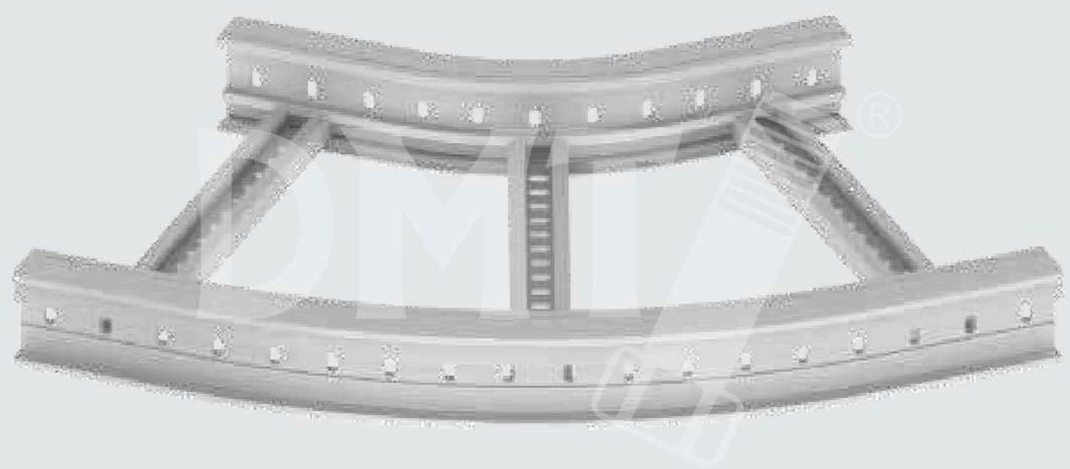
Largo \ Ø	1/2″	5/8″	3/4″	7/8″	1″	1 1/8″	1 1/4″	1 3/8″	1 1/2″	1 5/8″	1 3/4″	1 7/8″	2″	2 1/4″	2 1/2″
16 1/2″	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
16 3/4″	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
17″	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
17 1/4″	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
17 1/2″	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
17 3/4″	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
18″	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
18 1/4″	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
18 1/2″	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
18 3/4″	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
19″	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
19 1/4″	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
19 1/2″	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
19 3/4″	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
20″						●	●	●	●	●	●	●	●	●	●
20 1/4″						●	●	●	●	●	●	●	●	●	●
20 1/2″						●	●	●	●	●	●	●	●	●	●
20 3/4″						●	●	●	●	●	●	●	●	●	●
21″						●	●	●	●	●	●	●	●	●	●
21 1/4″						●	●	●	●	●	●	●	●	●	●
21 1/2″						●	●	●	●	●	●	●	●	●	●
21 3/4″						●	●	●	●	●	●	●	●	●	●
21 3/4″						●	●	●	●	●	●	●	●	●	●
22″						●	●	●	●	●	●	●	●	●	●
22 1/4″						●	●	●	●	●	●	●	●	●	●
22 1/2″						●	●	●	●	●	●	●	●	●	●
22 3/4″						●	●	●	●	●	●	●	●	●	●
23″						●	●	●	●	●	●	●	●	●	●
23 1/4″						●	●	●	●	●	●	●	●	●	●
23 1/2″						●	●	●	●	●	●	●	●	●	●
23 3/4″						●	●	●	●	●	●	●	●	●	●
24″						●	●	●	●	●	●	●	●	●	●
24 1/4″						●	●	●	●	●	●	●	●	●	●
24 1/2″						●	●	●	●	●	●	●	●	●	●
24 3/4″						●	●	●	●	●	●	●	●	●	●
25″						●	●	●	●	●	●	●	●	●	●

Charola escalera



Altura	KG/UD	
	Charola escalera 4 1/2" ANCE 8C-12A PASO12	Charola escalera 6" ANCE 12C PASO12
4"	5.12	7.7
6"	5.36	7.95
9"	5.73	8.31
12"	6.09	8.68
16"	6.58	9.17
18"	6.83	9.41
20"	7.07	9.65
24"	7.56	10.14
30"	8.29	10.87
36"	9.02	11.6

Curva plana
de 45 grados

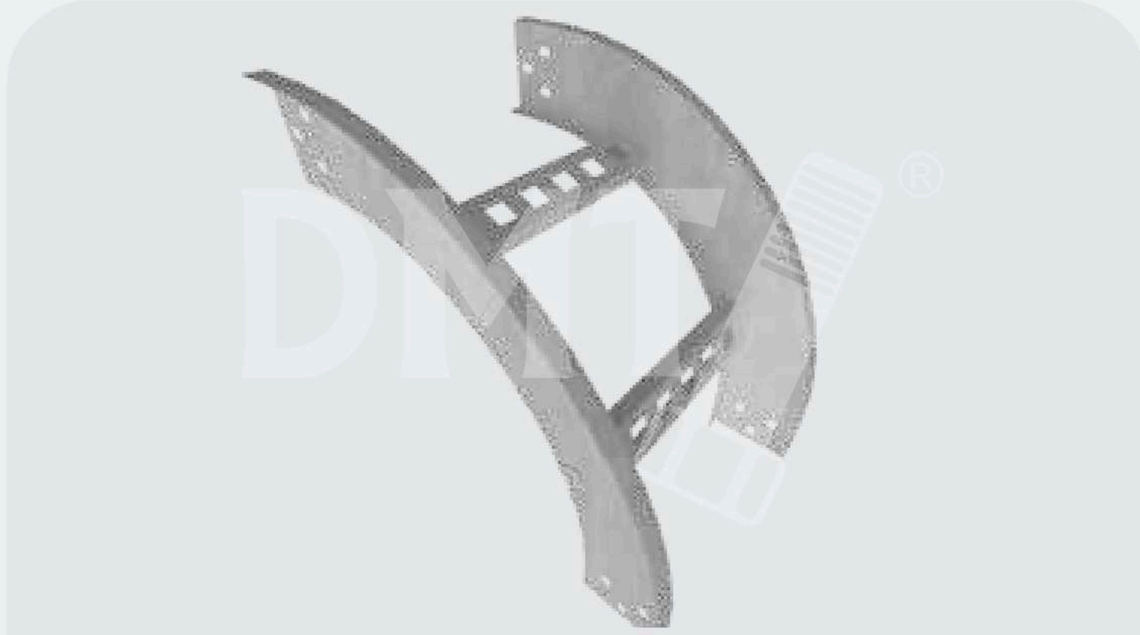


Altura	KG/UD			
	P 3/4"	R 8	P 4	R 12
4"	0.46		0.74	
6"	0.51		0.82	
9"	0.58		0.93	
12"	0.71		1.05	
16"	0.83		1.29	
18"	0.89		1.38	
20"	1.03		1.47	
24"	1.17		1.77	
30"	1.5		2.23	
36"	2.02		2.74	

Curva plana de 90 grados

Altura	KG/UD			
	P 3/4"	R 8	P 4	R 12
4"	0.7		1.26	
6"	0.8		1.42	
9"	0.96		1.66	
12"	1.22		1.89	
16"	1.45		2.38	
18"	1.57		2.55	
20"	1.86		2.73	
24"	2.13		3.34	
30"	2.78		4.24	
36"	3.84		5.27	

Curva vertical interior de 90 grados



Altura	KG/UD			
	P 3/4"	R 8	P 4	R 12
4"	0.63		0.96	
6"	0.67		1.02	
9"	0.74		1.11	
12"	0.81		1.2	
16"	0.9		1.32	
18"	0.94		1.37	
20"	0.99		1.43	
24"	1.07		1.55	
30"	1.21		1.73	
36"	1.34		1.91	

Perfiles canal

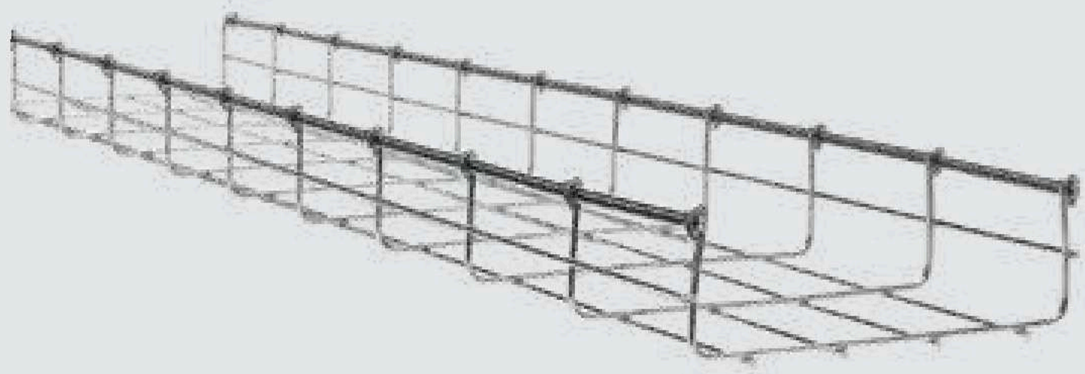
Calibre	Sólidos		Perforados	
	4 x 2 cm	4 x 4 cm	4 x 2 cm	4 x 2 cm
14	●	●	●	●
16	●	●	●	●
18	●	●	●	●

Perfil de fibra de vidrio

Medida	
4x2	●
4x4	●

Charolas portacables tipo malla

tramos rectos de 3 metros



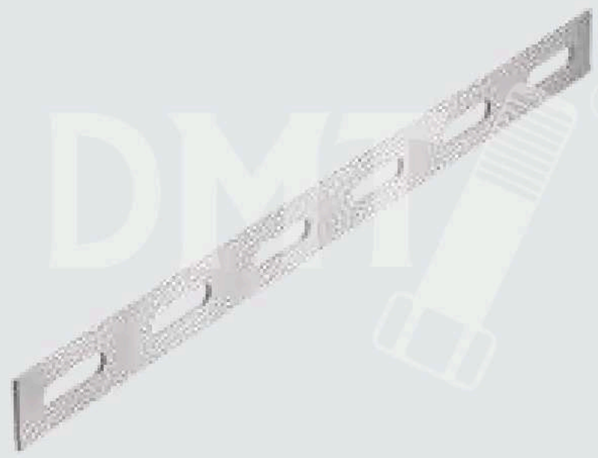
Ancho	Altura 33 mm		Altura 66 mm		Altura 166 mm	
	Capacidad de carga kg/m entre apoyos de:					
	1.5 metros	1.8 metros	1.5 metros	1.8 metros	1.5 metros	1.8 metros
50 mm	18	13	25	18		
100 mm	24	17	30	22		
150 mm	31	24	45	35	70	54
200 mm	34	27	50	39	82	66
250 mm			68	56		
300 mm	59	47	87	78	165	88
400 mm			176	89	188	95
500 mm			188	97	208	104
600 mm			201	107	227	121
700 mm			213	115		

Diferentes acabados: galvanizado, garvanizado por inmersión en caliente, inoxidable 304 e inoxidable 316

Conjunto unión curvas BFR / BF2R

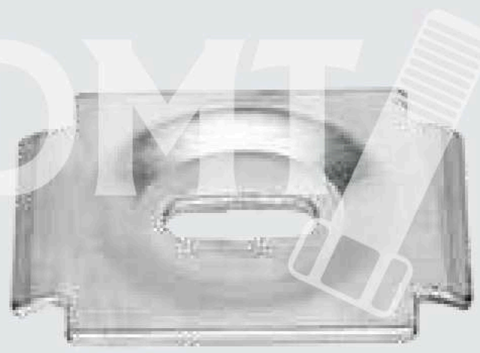
	KG / UD
Electrozincado	0.07
GC	0.08
GS	
1304	0.07

Multiunión



	KG / UD
Electrozincado	
GC	0.05
GS	0.05
1304	

Suspensión central SSC



	KG / UD
Electrozincado	0.03
GC	0.03
GS	
1304	0.03

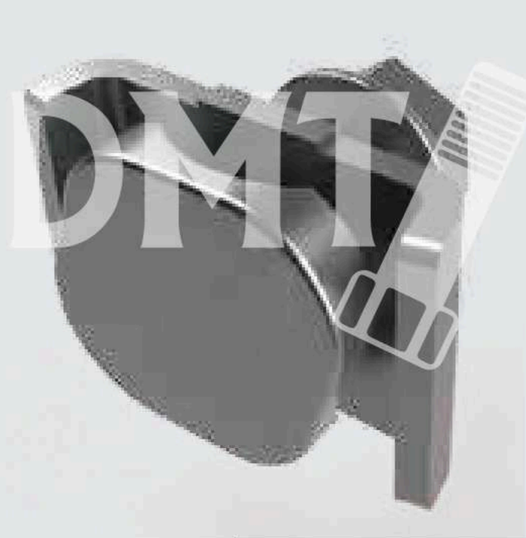
Suspensión a techo para BFR H35

	KG / UD
Electrocincado	
GC	
GS	
1304	0.03

Unión rápida

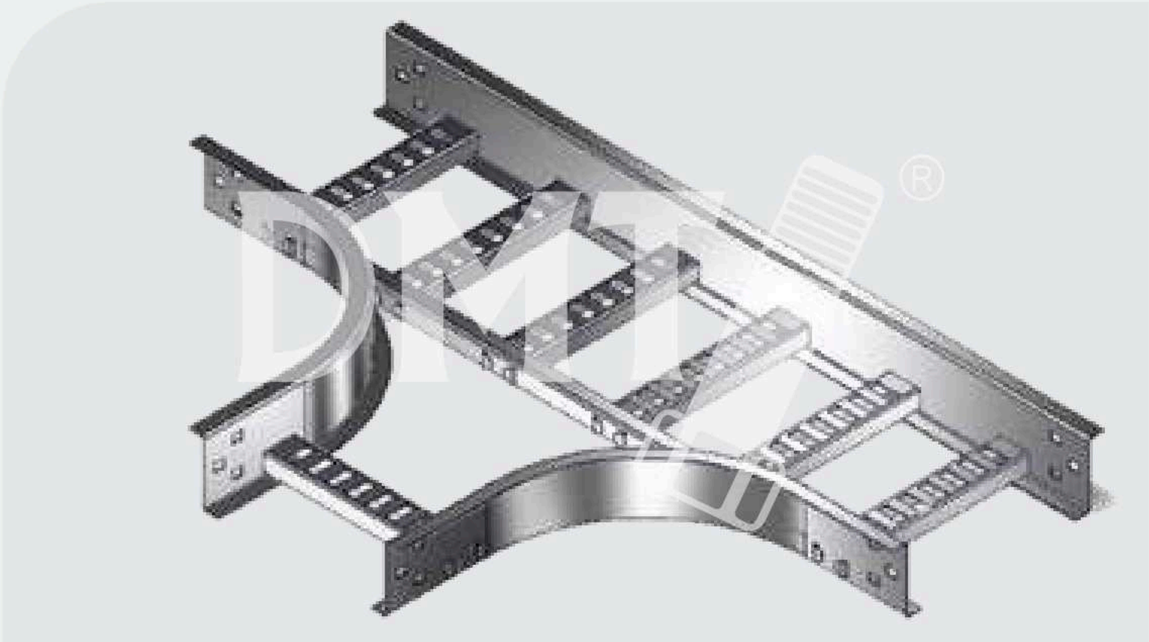
	KG / UD
Electrocincado	0.03
GC	0.03
GS	
1304	

Conjunto grapa



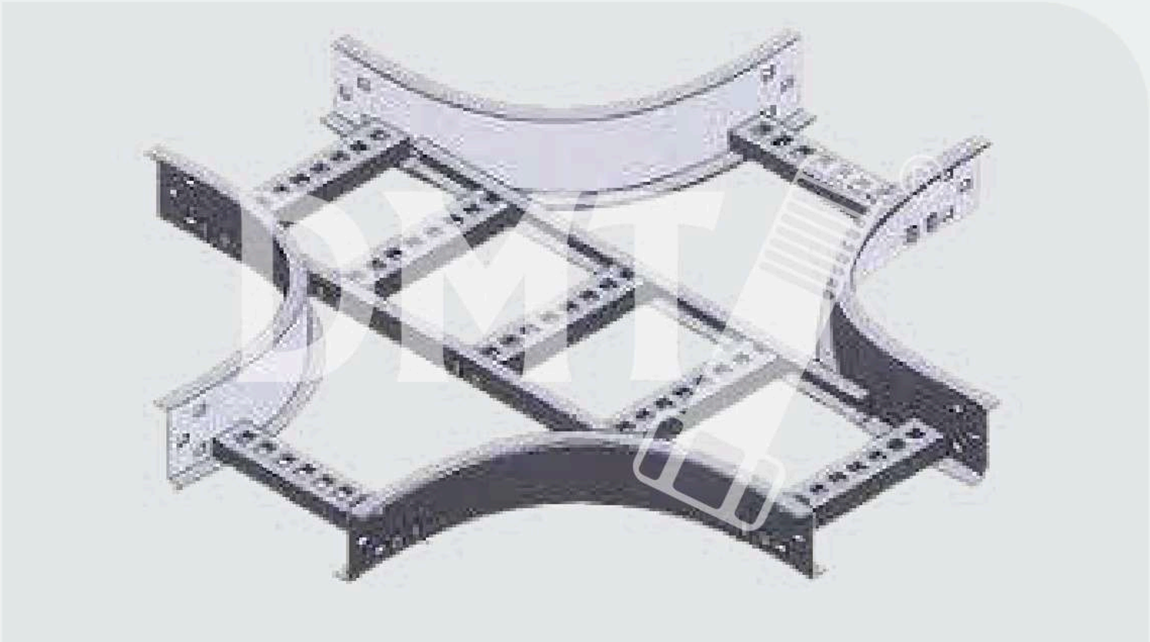
	KG / UD
Electrocincado	0.03
GC	0.03
GS	
1304	0.03

Derivación TEE



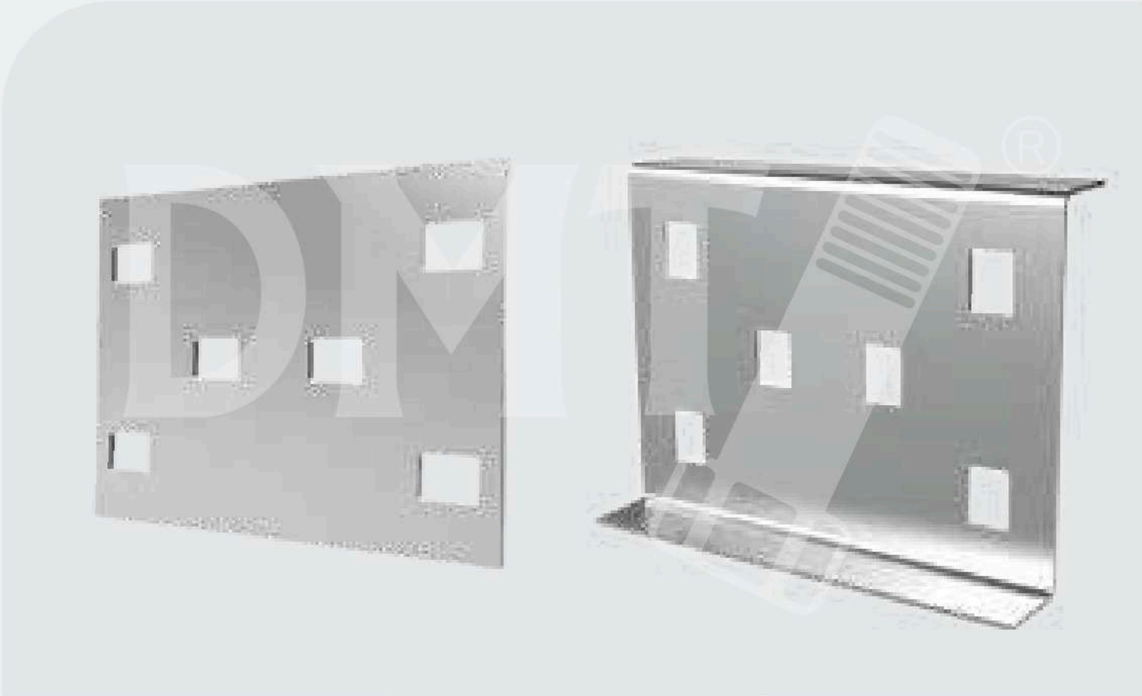
Altura	KG/UD			
	P 3/4″	R 8	P 4	R 12
4″	1.25		2.05	
6″	1.4		2.24	
9″	1.64		2.55	
12″	1.91		2.89	
16″	2.3		3.39	
18″	2.51		3.65	
20″	2.72		3.92	
24″	0.32		4.51	
30″	3.92		5.46	
36″	4.75		6.5	

Cruz 3 1/4″



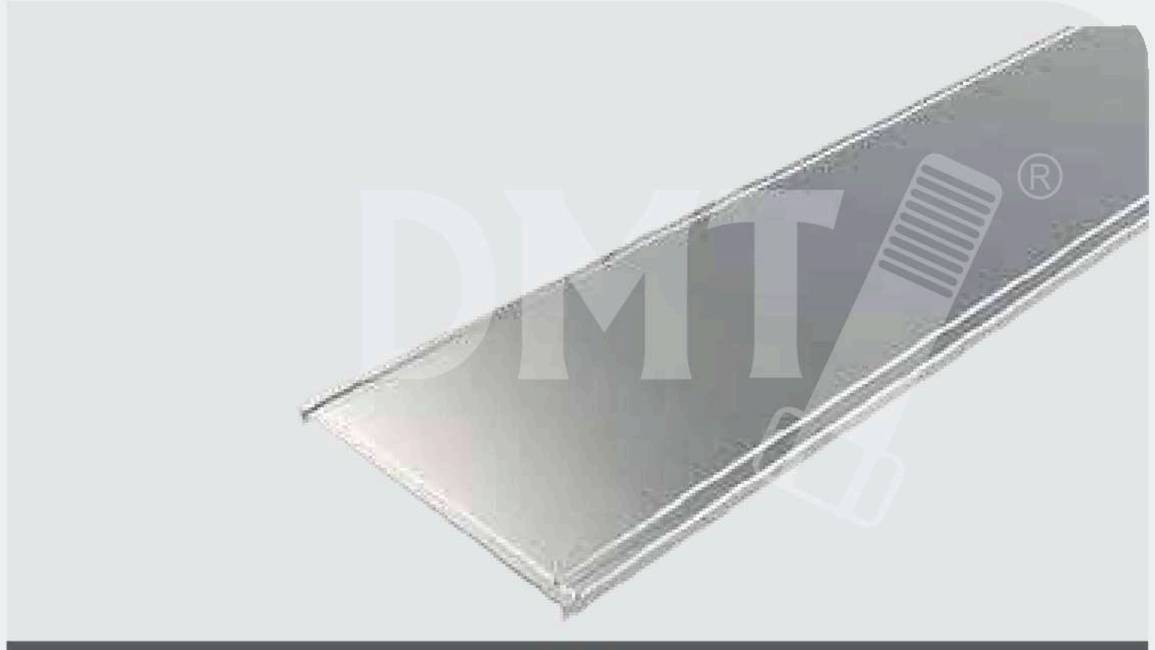
Altura	KG/UD	
	Paso 8	Paso 12
4″	1.54	2.67
6″	1.71	2.87
9″	1.97	3.19
12″	2.23	3.52
16″	2.58	3.96
18″	2.76	4.18
20″	2.94	4.4
24″	3.29	4.85
30″	3.83	5.52
36″	4.36	6.19

Uniones



P Pulgadas	C Pulgadas	KG / UD
3 1/4″	1 3/4″	0.04
4″	1 3/4″	0.05
4 1/2″	2 3/4″	0.06
6″	2 3/4″	0.08
3 1/4″	1 3/4″	0.05
4″	1 3/4″	0.08
4 1/2″	2 3/4″	0.1
6″	2 3/4″	0.13

Tapa ERE para charolas



KG/UD		
Galvanizado	Galvanizado por inmersión	1304
0.55	0.82	0.55
0.76	1.14	0.76
0.98	1.46	0.98
1.55	2.11	1.55
2.19	2.75	
3.11	3.85	
3.95	4.58	

Taquete ancla arpón

(mm)	Broca cuerda	Largo total	Profundidad perforación	Espesor agarre
6.5 x 45	1/4″	1 3/4″	1 1/4″	1/4″
6.5 x 58	1/4″	2 1/4″	1 1/4″	3/4″
6.5 x 83	1/4″	3 1/4″	1 1/4″	1 1/2″
9.5 x 57	3/8″	2 1/4″	1 3/4″	1/4″
9.5 x 76	3/8″	3″	1 3/4″	3/4″
9.5 x 96	3/8″	3 3/4″	1 3/4″	1 1/2″
9.5 x 127	3/8″	5″	1 3/4″	2 1/2″
13 x 70	1/2″	2 3/4″	2 1/2″	1/4″
13 x 96	1/2″	3 3/4″	2 1/2″	3/4″
13 x 114	1/2″	4 1/2″	2 1/2″	1 1/2″
13 x 140	1/2″	5 1/2″	2 1/2″	2 1/2″
13 x 178	1/2″	7″	2 1/2″	4″
16 x 95	5/8″	3 3/4″	3″	1 /4″
16 x 120	5/8″	4 3/4″	3″	1″
16 x 152	5/8″	6″	3″	2″
16 x 178	5/8″	7″	3″	3 1/2″
16 x 216	5/8″	8 1/2″	3″	4 1/2″
19 x 120	3/4″	4 3/4″	3 1/2″	1/2″
19 x 140	3/4″	5 1/2″	3 1/2″	1 1/4″
19 x 178	3/4″	7″	3 1/2″	2 1/2″
19 x 216	3/4″	8 1/2″	3 1/2″	4 1/4″
19 x 250	3/4″	10″	3 1/2″	6″
25 x 150	1″	6″	4 1/2″	1/2″
25 x 230	1″	9″	4 1/2″	3 1/2″
25 x 300	1″	12″	4 1/2″	6 1/2″

Taquete madera

Broca (mm)	Broca (in)	Largo total	Usar pija	Largo total
6.5 mm	1/4″	6 x 1 1/4″	1 1/4″	1″
7.9 mm	5/16″	8 x 1 1/2″	1 1/4″	1 1/8″
9.5 mm	3/8″	12 x 2″	1 1/4″	1 1/4″

Taquete plástico

Broca (mm)	Broca (in)	Largo total	Usar pija	Largo total
4.7 mm	3/16″	6 x 1 1/4″	6 x 1 1/4″	1″
6.5 mm	1/4″	8 x 1 1/2″	8 x 1 1/4″	1 3/16″
6.5 mm	1/4″-L	8 x 2″	8 x 2″	1 1/2″
7.9 mm	5/16″	10 x 1 1/2″	10 x 1 1/2″	1 1/2″
9.5 mm	3/8″	14 x 2″	14 x 2″	2″

Taquete ADI

Cuerda (mm)	Cuerda (in)	Diámetro broca	Largo total	Empaque Unit / Multi
6.5 mm	1/4″	3/8″	1″	200 / 1200
7.9 mm	5/16″	3/8″	1 1/4″	100 / 600
9.5 mm	3/8″	1/2″	1 1/2″	50 /1000
13 mm	1/2″	5/8″	2″	50 / 500
16 mm	5/8″	3/4″	2 1/2″	25 / 300
19 mm	3/4″	1″	3 1/4″	10 / 120

Taquete Expansor

Cuerda (mm)	Cuerda (in)	Diámetro broca	Largo total	Prof. Perf.	Empaque Unit / Multi
4.7 mm	3/16″	3/8″	1 1/2″	2″	100 / 1600
6.5 mm	1/4″	1/2″	1 3/4″	2 1/4″	100 / 600
7.9 mm	5/16″	5/8″	2″	2 1/2″	50 /300
9.5 mm	3/8″	5/8″	2″	2 1/2″	50 / 300
13 mm	1/2″	7/8″	2 1/2″	3″	25 / 150
16 mm	5/8″	1″	3 1/4″	3 3/4″	20 / 120
19 mm	3/4″	1 1/4″	3 1/2″	4″	10 / 60

Retacador ADI para instalar taquete ADI

Cuerda (mm)	Cuerda (in)	Diámetro broca	Largo total	Empaque Unit / Multi
6.5 mm	1/4″		6″	Pza.
7.9 mm	5/16″		6″	Pza.
9.5 mm	3/8″		6″	Pza.
13 mm	1/2″		6″	Pza.
16 mm	5/8″		6″	Pza.
19 mm	3/4″		6″	Pza.

Taquete TX

Cuerda (mm)	Cuerda (in)	Diámetro broca	Largo total	Prof. Perf.	Empaque Unit / Multi	Espesor Agarre
6.5 mm	1/4″	3/8″	2 1/2″	2 1/2″	100 / 600	1/4″
7.9 mm	5/16″	3/8″	2 1/2″	2 1/2″	100 / 600	5/16″
9.5 mm	3/8″	1/2″	3 1/4″	3″	50 / 300	3/8″
13 mm	1/2″	5/8″	3 1/2″	3 1/2″	25 / 150	1/2″
16 mm	5/8″	3/4″	3 1/2″	4″	10 / 60	5/8″
19 mm	3/4″	7/8″	4 1/2″	5 1/2″	5 / 30	3/4″

Taquete de plástico
tipo zakany

Ø	Largo			
	1 "	1 3/16"	1 1/2"	2"
3/16"	●			
1/4"		●		
5/16"			●	
3/8"				●

Taquete para tablaroca

Tipo	Usar pija
Metal	8 x 1 1/2"
Plástico	8 x 1 1/2"

Taquete Gancho

Ø	Tropicalizado
1/4"	●
3/8"	●
1/2"	●

Taquete Argolla

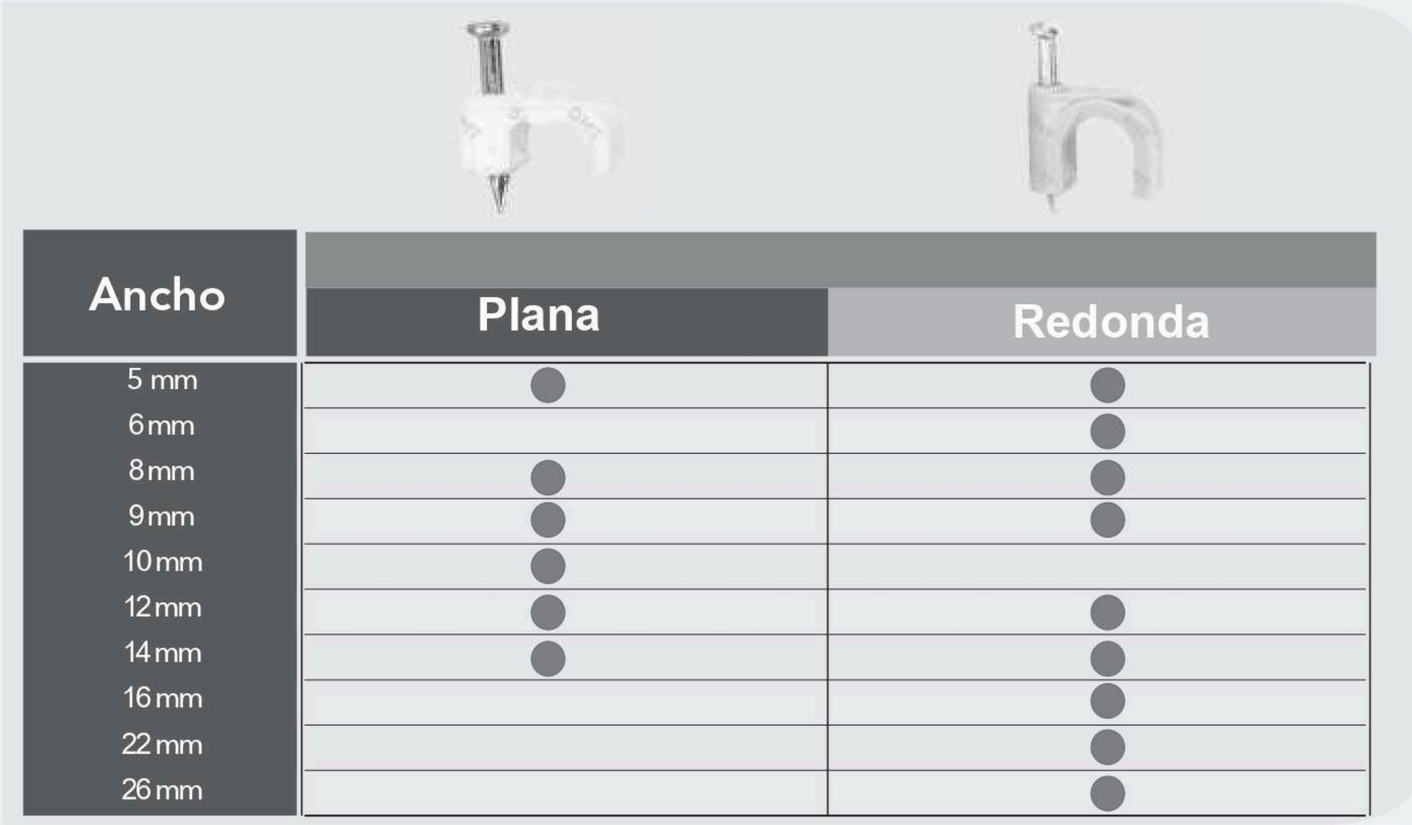
Ø	Tropicalizado
1/4"	●
3/8"	●
1/2"	●

Remache de expansión

CLAVE	DIAMETRO NOMINAL	DIAMETRO DE VASTAGO	DIAMETRO DE CABEZA	LARGO	RANGO DE AGARRE
2-1-04	5/32	0.156	0.312	0.250	0.078 a 0.141
3-1-03				0.219	0.047 a 0.109
3-1-05				0.281	0.109 a 0.172
3-1-07				0.344	0.172 a 0.234
3-1-09				0.406	0.234 a 0.297
3-1-11			0.375	0.468	0.297 a 0.359
3-1-13				0.531	0.359 a 0.422
3-1-15				0.595	0.422 a 0.484
3-1-17				0.656	0.484 a 0.547
3-1-20				0.781	0.610 a 0.672
3-1-28				1.031	0.860 a 0.922
3-2-04	3/16	0.187		0.250	0.078 a 0.141
3-2-05				0.281	0.109 a 0.172
3-2-06				0.312	0.141 a 0.203
3-2-07			0.460	0.344	0.172 a 0.234
3-2-08				0.374	0.203 a 0.266
3-2-09				0.406	0.234 a 0.297
3-2-12				0.500	0.328 a 0.391
3-4-12				0.500	0.328 a 0.391
3-4-14				0.562	0.391 a 0.453
3-4-15			0.610	0.595	0.422 a 0.484
3-5-12				0.500	0.328 a 0.391
3-5-17				0.656	0.484 a 0.547
4-1-03				0.219	0.047 a 0.109
4-1-05				0.281	0.109 a 0.172
4-1-07				0.344	0.172 a 0.234
4-1-09				0.406	0.234 a 0.297
4-1-11				0.468	0.297 a 0.359
4-1-13	1/4	0.250	0.500	0.531	0.359 a 0.422
4-1-15				0.595	0.422 a 0.484
4-1-17				0.656	0.484 a 0.547
4-1-21				0.781	0.610 a 0.672
4-1-28				1.031	0.860 a 0.922
4-2-07			0.610	0.344	0.172 a 0.234

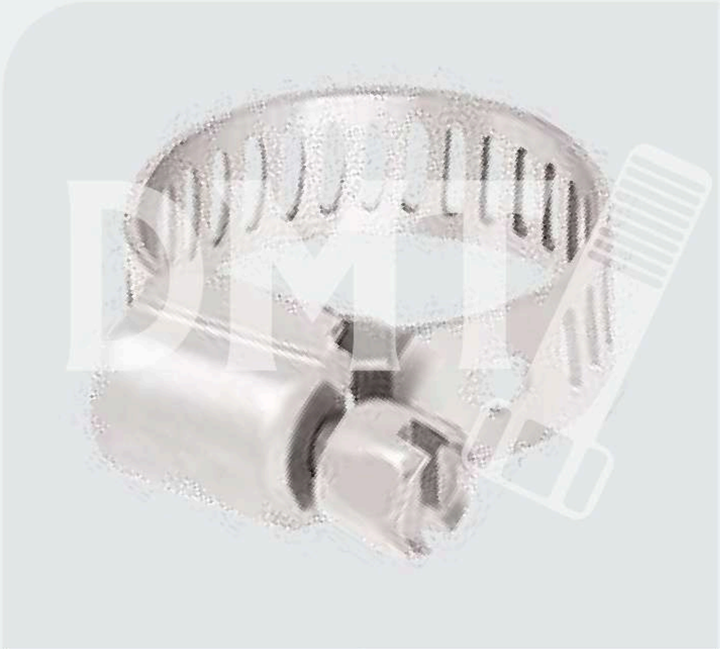
Taquete para cincho de 8mm

Grapa de plastico para cable



Ancho	Plana	Redonda
5 mm	●	●
6 mm		●
8 mm	●	●
9 mm	●	●
10 mm	●	
12 mm	●	●
14 mm	●	●
16 mm		●
22 mm		●
26 mm		●

Abrazadera sin fin inoxidable

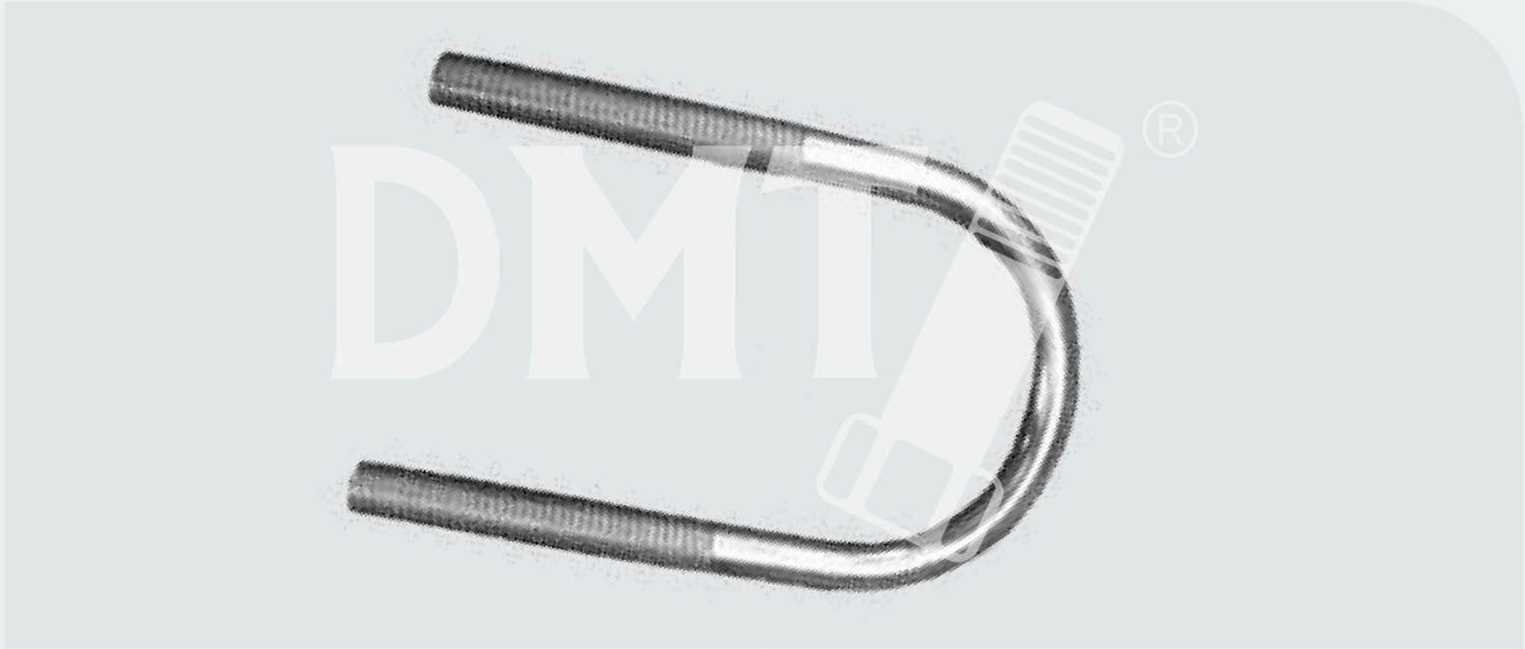


Número	(in)
4	5/8″
6	3/4″
8	7/8″
10	1 1/16″
12	1 1/4″
16	1 1/2″
20	1 3/4″
24	2″
28	2 1/4″
32	2 1/2″
36	2 3/4″
40	3″
44	3 1/4″
48	3 1/2″
52	3 3/4″
56	4″
60	4 1/4″
64	4 1/2″
72	5″
88	6″
96	6 1/2″
104	7″

Nota: Combinación de hexágono y tornillo para desarmador

Nota: Banda de acero inoxidable y tornillo niquelado

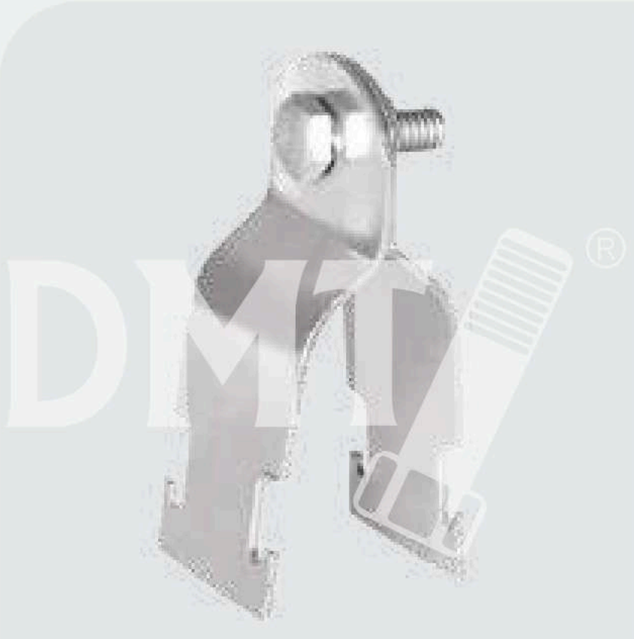
U-120 Roscada comercial



Nominal (mm)	Nominal (in)	Agarre (mm)	Cuerda
13 mm	1/2″	20	1/4″
19 mm	3/4″	20	1/4″
25 mm	1″	20	1/4″
32 mm	1 1/4″	25	1/4″
38 mm	1 1/2″	25	1/4″
51 mm	2″	25	1/4″
63 mm	2 1/2″	25	3/8″
76 mm	3″	25	3/8″
88 mm	3 1/2″	25	3/8″
100 mm	4″	25	3/8″
150 mm	6″	25	1/2″
200 mm	8″	25	1/2″

Nota: No incluye placa ni tuercas

Abrazadera para canal



Nominal (mm)	(in)
10 mm	3/8″
13 mm	1/2″
19 mm	3/4″
25 mm	1″
32 mm	1 1/4″
38 mm	1 1/2″
51 mm	2″
63 mm	2 1/2″
76 mm	3″
100 mm	4″
150 mm	6″
200 mm	8″
250 mm	10″

Abrazadera tipo uña

Conduit (mm)	(in)	Usar tornillo
10 mm	3/8″	1/4″
13 mm	1/2″	1/4″
19 mm	3/4″	1/4″
25 mm	1″	1/4″
32 mm	1 1/4″	1/4″
38 mm	1 1/2″	1/4″
51 mm	2″	1/4″
63 mm	2 1/2″	3/8″
76 mm	3″	3/8″
100 mm	4″	3/8″

Nota: Reforzada y ligera

Abrazadera omega conduit

Nominal (mm)	(in)
10 mm	3/8”
13 mm	1/2″
19 mm	3/4″
25 mm	1″
32 mm	1 1/4″
38 mm	1 1/2″
51 mm	2″
63 mm	2 1/2″
76 mm	3″
100 mm	4″
150 mm	6″
200 mm	8″
250 mm	10″

Nota: Reforzada y ligera

Abrazadera tipo pera fibra de vidrio

Nominal (mm)	(in)
13 mm	1/2″
19 mm	3/4″
25 mm	1″
32 mm	1 1/4″
38 mm	1 1/2″
51 mm	2″
63 mm	2 1/2″
76 mm	3″
100 mm	4″

Abrazadera tipo pera galvanizada

Nominal (mm)	(in)	Usar barra	Empaque Unit / Multi
13 mm	1/2″	3/8″	70 / 280
19 mm	3/4″	3/8″	70 / 280
25 mm	1″	3/8″	50 / 240
32 mm	1 1/4″	3/8″	40 / 160
38 mm	1 1/2″	3/8″	40 / 160
51 mm	2″	3/8″	40 / 160
63 mm	2 1/2″	1/2″	30 / 120
76 mm	3″	1/2″	25 / 100
100 mm	4″	5/8″	20 / 80
150 mm	6″	3/4″	Pza.
200 mm	8″	7/8″	Pza.

Platina para abrazadera "U"

Diámetro	Largo
13 mm	1/2″
25 mm	1″
32 mm	1 1/4″
38 mm	1 1/2″
51 mm	2″
63 mm	2 1/2″
76 mm	3″

Abrazadera para canal fibra de vidrio

Nominal (mm)	(in)
10 mm	3/8″
13 mm	1/2″
19 mm	3/4″
25 mm	1″
32 mm	1 1/4″
38 mm	1 1/2″
50 mm	2″
63 mm	2 1/2″
76 mm	3″
100 mm	4″
150 mm	6″
200 mm	8″
250 mm	10″

Perno fijador
concreto-acero
8 mm

Modelo
W6-2027-FP8
W6-2032-FP8

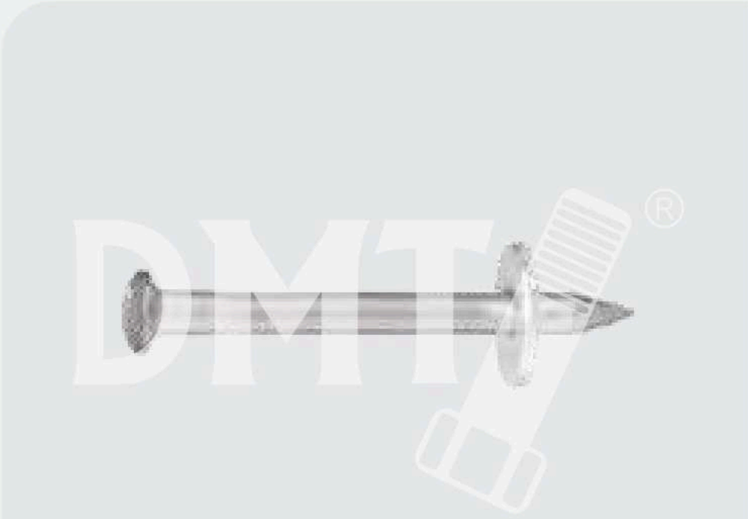
Perno fijador
concreto-acero
12 mm

Modelo
W6-2027-D12
W6-2032-D12

Perno fijador
premontado
para tubería

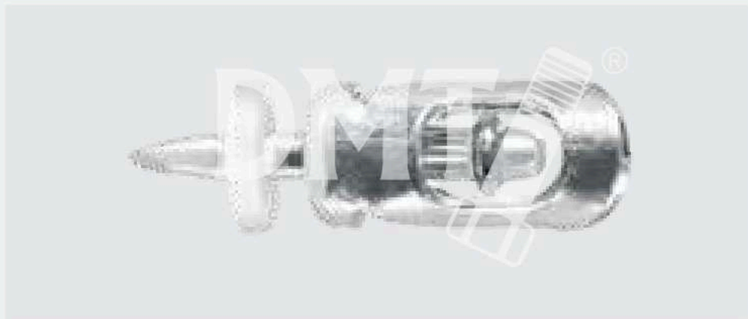
Modelo
TWG-NK32-S12

Clavo fijador
Tipo Clavo



Modelo
PD16-P8
PD27-P8
PD32-P8
PD37-P8

Perno fijador
premontado para
plafón

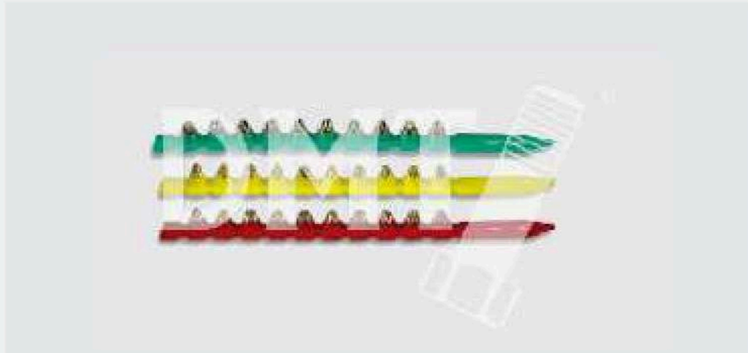


TB27-S12

Clavo con angulo
premontado para
plafón

PDA27 / P DA32

Impulsor



CALIBRE 22
CALIBRE 27

Cinta perforada

Descripción	Empaque Unit / Multi
Rollo 25 metros	6/12 rollos
Nota: 0.6 x 19 mm y 24 x 3/4"	

Chaveta de hierro
galvanizado / pulido

Largo \ Ø	1/16″	3/32″	1/8″	5/32″	3/16″	1/4″	5/16″	3/8″
1/2″	●	●	●	●	●			
3/4″	●	●	●	●	●			
1″	●	●	●	●	●	●	●	
1 1/4″	●	●	●	●	●	●	●	
1 1/2″	●	●	●	●	●	●	●	●
1 3/4″	●	●	●	●	●	●	●	●
2″	●	●	●	●	●	●	●	●
2 1/2″			●	●	●	●	●	●
3″			●	●	●	●	●	●
3 1/2″					●	●	●	●
4″					●	●	●	●
5″								●

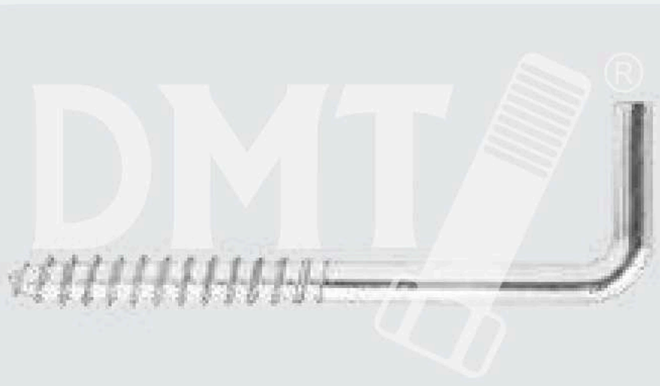
Chaveta
inoxidable 304

Largo \ Ø	1/16”	3/32”	1/8”	5/32”	3/16”	1/4”	5/16”
1/2″	●	●			●		
3/4″	●	●	●		●		
1″	●	●	●	●	●		
1 1/4″	●	●	●		●	●	
1 1/2″	●	●	●	●	●	●	
1 3/4″	●	●	●		●	●	
2″	●	●	●	●	●	●	
2 1/2″			●	●	●	●	
3″			●	●	●	●	
3 1/2″					●	●	
4″						●	●
5″						●	●

Armella galvanizada cerrada y abierta

Medida	2 1/2"	2 7/8"	3"	3 1/8"	3 1/2"	3 7/8"	4"	4 1/4"	4 1/2"	4 5/8"	6"	8"	10"	12"
3/16"		●	●											
1/4"	●		●		●	●	●				●	●		
5/16"			●		●		●	●			●	●		
3/8"					●		●		●	●	●	●		
1/2"											●	●	●	●

Alcayata roscada galvanizada



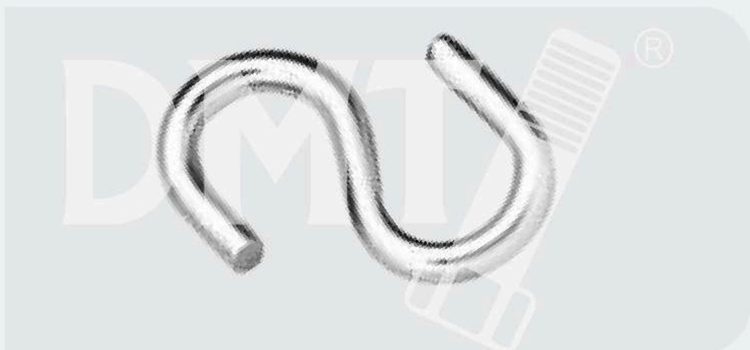
16 X 20
18 X 50
19 X 60
20 X 70
21 X 80
22 X 100
22 X 90
23 X 110

Bisagra tubular

3/8"
1/2"
5/8"
3/4"
1"

Hamaquero

"S" galvanizada



Armella galvanizada cerrada y abierta

15 X 30
17 X 40
17 X 45
18 X 50
19 X 60
20 X 70
21 X 80
22 X 100
22 X 90
23 X 110
24 X 120
25 X 130
25 X 150

Nudo galvanizado e inoxidable

1/8″
3/16″
1/4″
5/16″
3/8″
7/16″
1/2″
9/16″
5/8″
3/4″
7/8″
1″
1 1/2″

Guardacabo galvanizado e inoxidable

3/16″
1/4″
5/16″
3/8″
7/16″
1/2″
3/4″
7/8″
1″

Birlos para techo galvanizado

NORMA SAE J-429

Material
Acero bajo carbono

Resistencia
60,000 PSI

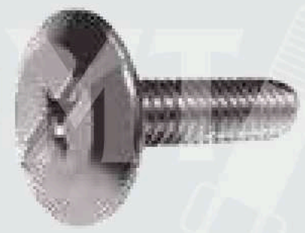
Dureza
70 -100 HRC

Largo \ Ø	3/16"	1/4"	5/16"
3"	●		
4"	●	●	●
5"	●	●	●
6"	●	●	●
7"	●	●	●
8"	●	●	●
9"	●	●	●
10"	●	●	●
11"	●	●	●
12"	●	●	●
14"	●	●	●
16"	●	●	●
18"	●	●	●
20"	●	●	●
22"		●	●
24"		●	●

Juego: capuchón, rondana plana y tuerca

Los juegos se componen de birlo, rondana de hierro galvanizada y capuchón

Tornillo para andador inoxidable



Ø	Largo 3/4"	1"	1 1/4"	1 1/2"	2"	3"	4"
1/4"	●	●	●	●	●	●	●
5/16"		●		●	●		●

Llave ALLEN estándar

Medida (in)	Estándar	Brazo largo
1/16″	●	●
5/64″	●	●
3/32″	●	●
7/64″	●	●
1/8″	●	●
9/64″	●	●
5/32″	●	●
3/16″	●	●
7/32″	●	●
1/4″	●	●
5/16″	●	●
3/8″	●	●
7/16″	●	●
1/2″	●	●
5/8″	●	●
3/4″	●	●
7/8″	●	●
1″	●	●

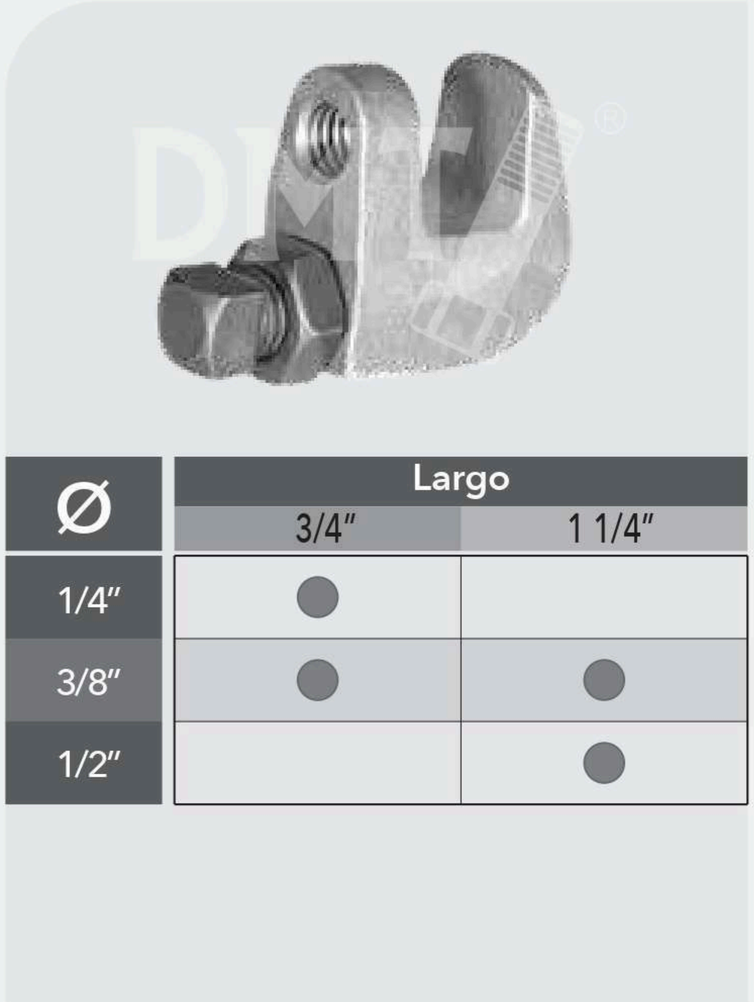
Llave ALLEN métrica

Métrico (mm)
2 mm
2.5 mm
3 mm
4 mm
5 mm
6 mm
7 mm
8 mm
9 mm
10 mm
17 mm
19 mm
22 mm
24 mm

Ancla de cimentación negra galvanizada

Largo
Fabricación sobre medida

Mordaza fundida



Ø	Largo	
	3/4″	1 1/4″
1/4″	●	
3/8″	●	●
1/2″		●

Mordaza Galvanizada

Largo	
	1/4 - 3/8"
3/4"	●
1"	●
1 1/4"	●
1 1/2"	●

Clavo para concreto

Largo
3/4″
1″
1 1/2″
2″
2 1/2″
3″
3 1/2″
4″

Clavos reforzados galvanizados por inmersión

Largo
2″
3″
3 1/2″
4″
5″
6″

Graseras

Filo para segueta

	18 Dientes	24 Dientes
Estándar	●	
Fina		●

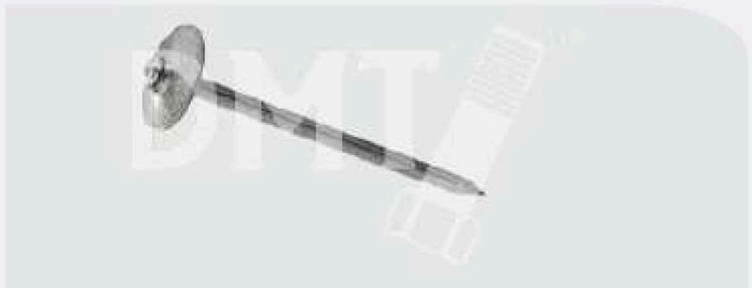
Cincho de plastico

Largo \ Ancho	2.5	3.6	4.6	7.5	8.8
4″	●				
6″	●	●			
8″	●	●	●		
12″		●	●	●	
14″		●	●		
18″					
20″			●		
22″				●	●

Clavo para madera

Largo
3/4″
1″
1 1/4″
1 1/2″
2″
2 1/2″
3 ″
4″
5″
6″

Clavo paraguas



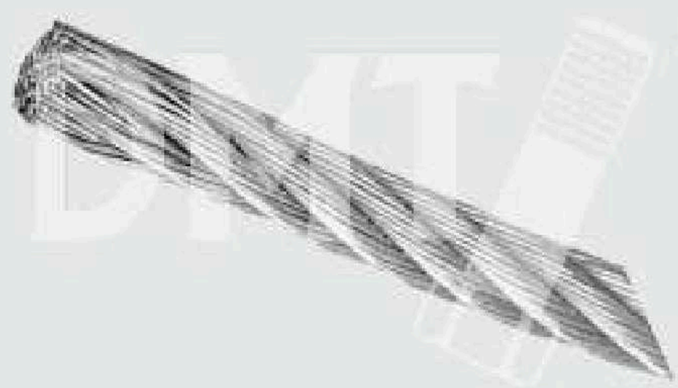
Largo
2 1/2″

Perno soldable ASTM A108 con Ferrul

diámetro		5/8"	3/4"
Largo	3 1/8"		
	3 3/16"		●
	4 1/8"		
	4 3/16"	●	●
	4 7/8"		●
	5 1/8"		
	5 3/16"	●	●
	6 1/8"		
	6 3/16"	●	●
	12 3/16"		●

Cable de acero

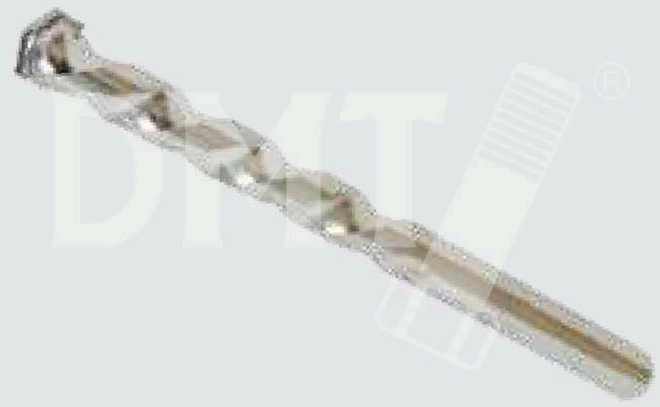
diametro		GALVANIZADO	INOXIDABLE
Largo	1/16"	●	●
	1/8"	●	●
	3/16"	●	●
	1/4"	●	●
	5/16"	●	●
	3/8"	●	●
	1/2"	●	●
	5/8"	●	●
	3/4"	●	●



Broca alta velocidad

Ø	Largo
1/64″	●
3/64″	●
1/32″	●
1/16″	●
5/64″	●
3/32″	●
7/64″	●
1/8″	●
9/64″	●
5/32″	●
11/64″	●
3/16″	●
13/64″	●
7/32″	●
15/64″	●
1/4″	●
17/64″	●
9/32″	●
19/64″	●
5/16″	●
21/64″	●
11/32″	●
23/64″	●
3/8″	●
25/64″	●
13/32″	●
27/64″	●
7/16″	●
29/64″	●
15/32″	●
31/64″	●
1/2″	●

Broca para concreto



Ø	Largo			
	3″	4″	6″	12″
1/8″	●	●		
5/32″	●	●	●	
3/16″		●	●	●
1/4″		●	●	●
5/16″		●	●	●
3/8″		●	●	●
7/16″			●	
1/2″			●	●
5/8″			●	●
3/4″			●	●
7/8″			●	●
1″			●	●

Broca para concreto SDS plus

Ø	Largo							
	4″	6″	8″	10″	12″	16″	18″	24″
9/32″	●	●	●		●		●	
1/4″	●	●	●		●		●	
5/16″	●	●	●		●			
3/8″		●	●		●		●	●
1/2″		●	●		●		●	●
5/8″		●	●		●		●	●
3/4″		●	●		●	●	●	
7/8″				●	●		●	
1″				●	●		●	

Machuelo
cuerda estándar

Ø	No. de cuerdas
1/8″	40
3/16″	24
1/4″	20
5/16″	18
3/8″	16
7/16″	14
1/2″	13
9/16″	12
5/8″	11
3/4″	10
7/8″	9
1″	8
1 1/4″	7
1 1/2″	6

Machuelo
cuerda fina

Ø	No. de cuerdas
1/8″	44
3/16″	32
1/4″	28
5/16″	24
3/8″	24
7/16″	20
1/2″	20
9/16″	18
5/8″	18
3/4″	16
7/8″	14
1″	12
1 1/4″	12

Machuelo
métrico

Ø	No. de cuerdas
M3	●
M4	●
M5	●
M6	●
M7	●
M8	●
M9	●
M10	●
M12	●
M14	●
M16	●
M18	●
M20	●
M22	●
M24	●
M27	●
M30	●
M33	●
M36	●

Remache de aluminio
tipo clavo

BYRNE

Clave	Largo (mm)	Agarre pulgadas
AS-32	2.4 X 6.3	3/32 X 1/8
AS-34	2.4 X 9.5	3/32 X 1/4
AS-41	3.2 X 5.3	1/8 X 1/16
AS-42	3.2 X 7.0	1/8 X 1/8
AS-43	3.2 X 8.5	1/8 X 3/16
AS-44	3.2 X 10.1	1/8 X 1/4
AS-45	3.2 X 11.7	1/8 X 5/16
AS-46	3.2 X 13.3	1/8 X 3/8
AS-48	3.2 X 16.5	1/8 X 1/2
AS-52	4.0 X 7.6	5/32 x 1/8
AS-54	4.0 X 10.8	5/32 x 1/4
AS-56	4.0 X 14.0	5/32 x 3/8
AS-58	4.0 X 17.1	5/32 x 1/2
AS-510	4.0 X 20.3	5/32 x 5/8
AS-62	4.8 X 8.3	3/16 x 1/8
AS-64	4.8 X 11.4	3/16 x 1/4
AS-66	4.8 X 14.6	3/16 x 3/8
AS-68	4.8 X 17.8	3/16 x 1/2
AS-610	4.8 X 21.0	3/16 x 5/8
AS-612	4.8 X 24.1	3/16 x 3/4
AS-614	4.8 X 27.3	3/16 x 7/8
AS-616	4.8 X 30.5	3/16 x 1
AS-84	6.4 X 12.7	1/4 X 1/4
AS-86	6.4 X 15.8	1/4 X 3/8
AS-88	6.4 X 19.0	1/4 X 1/2

Remache inoxidable
tipo clavo

Clave	Largo (mm)	Agarre pulgadas
B-42	3.2 X 7.0	1/8 X 1/8
B-44	3.2 X 10.1	1/8 X 1/4
B-46	3.2 X 13.3	1/8 X 3/8
B-48	3.2 X 16.5	1/8 X 1/2
B-52	4.0 X 7.6	5/32 x 1/8
B-54	4.0 X 10.8	5/32 x 1/4
B-56	4.0 X 14.0	5/32 x 3/8
B-58	4.0 X 17.1	5/32 x 1/2
B-610	4.8 X 21.0	3/16 x 5/8
B-612	4.8 X 24.1	3/16 x 3/4
B-616	4.8 X 30.5	3/16 x 1
B-64	4.8 X 11.4	3/16 x 1/4
B-66	4.8 X 14.6	3/16 x 3/8
B-68	4.8 X 17.8	3/16 x 1/2
B-84	6.4 X 12.7	1/4 X 1/4
B-86	6.4 X 15.8	1/4 X 3/8
B-88	6.4 X 19.0	1/4 X 1/2

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