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MUSTAD SPA

- Made in Italy since 1912
- One of the leading hardened screw manufacturers in Europe
- 2 plants with a total covered surface of over 20,000 m²
- 110 highly skilled workers
- 30 sales agents

BALANGERO PLANT

Via S. Anna, 59/21 10070 Balangero (TO) - ITALY Tel. 0123.346625 - 346222 (r.a.) Fax 0123.346041 Website:

www.mustad.it

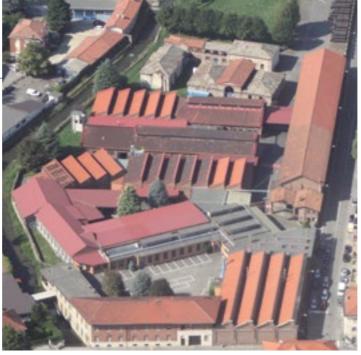


PINEROLO PLANT

Registered office: via Saluzzo, 66 10064 Pinerolo (TO) - ITALY

VAT number: IT05801010017

Tax code: 09347030158

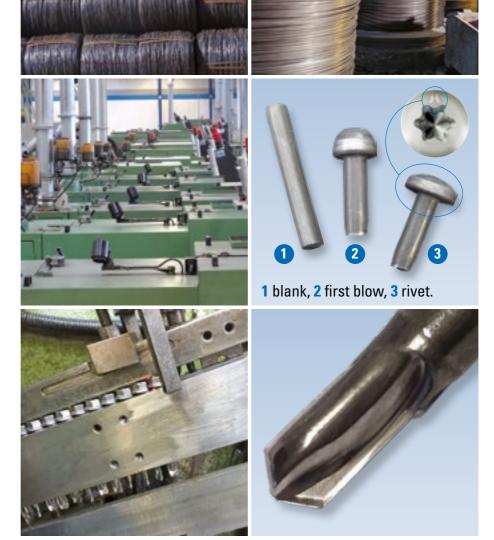


PRODUCTION CYCLE

1) Wire drawing.

Carbon steel purchased from the best European steelworks.

2) Cold heading of head and recess.



3) Pointing of self-drilling screws.

4) Thread rolling.



5) Case hardening treatment. (see page 7)



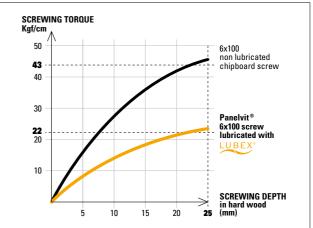
6) Protective and aesthetic coatings.
(see page 9)



7) LUBEX® lubrication treatment

to reduce fastening force. (see page 8)





8) Salt spray chamber inspection to test corrosion resistance.

Fischerscope® inspection of coating thickness.





- **5,000** items in stock
- Dedicated storage areas
- Thousands of pallets ready for delivery.



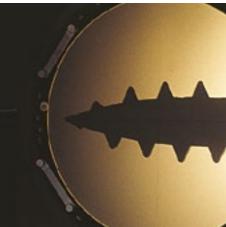




ENTIRE PRODUCTION CYCLE IN ITALY

In-process and statistical inspections in each manufacturing step.





In-house maintenance.



Highly specialised in-house tooling.





CASE HARDENING TREATMENT

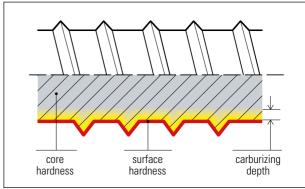
This process confers hardness and toughness to the screw, necessary to screw or bore in different materials.

It is a thermo-chemical process, made in controlled atmosphere furnaces, that consists of two phases:



CARBONITRIDING

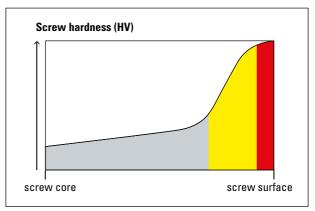
The injection of specific gases in a controlled atmosphere at a high temperature adds more nitrides and carbides to the screw surface (surface hardness).



HARDENING

It is necessary to cool the screw abruptly in order to increase the metal toughness and resilience and to obtain a very hard surface.

These characteristics are necessary to resist to a high screwing torque and to create the thread in the hardest wood (core hardness).



Variation of the screw hardness (between surface and core) after the case hardening treatment.

The SPC system (Statistical Product Control) controls the carbonitriding process to guarantee high and constant quality level over time. The batch number printed on labels guarantees the traceability.



LUBEX LUBRICATION TREATMENT

This treatment's purpose is to reduce the friction between the screw and the material. Consequently, it helps to reduce the fastening force and the tool wear.

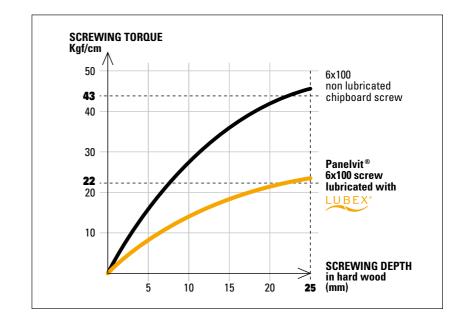
LUBEX® treated screws: Panelvit®, Kovervit® AA for wood and Formex® (LUBEX®-M version).



This treatment has two advantages:

1) SCREWING STEP

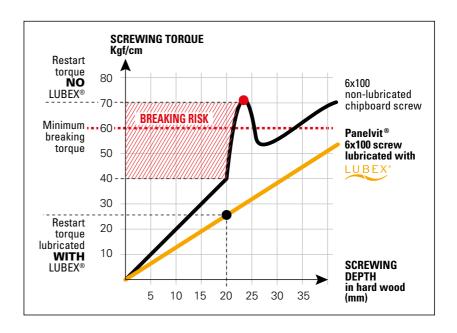
Reduction of the fastening force up to 50% more than a non-lubricated screw.



2) RESTART OR UNSCREWING

In case of more-steps screwing (stop and restart, or unscrewing), the screw undergoes a high torsion because of the friction with the material. This effort can also overcome the breaking limit.

LUBEX® preserves the screw from breaking and tools from wearing because it avoids dangerous torque increases.



COATINGS

These coatings have both the aim to protect screws against rust and corrosion in order to guarantee the reliability over time and to give the right aesthetic appearance to the screw, depending on the application.

All Mustad treatments are environmentalfriendly and Chrome VI free, according to Rohs and Reach normative and 2000/53 directive (end-of-life vehicles).



AESTHETIC COATINGS

These treatments have an aesthetic purpose. They are used when the coating colour needs to match the hardware.

TREATMENT

BRONZE-PLATING

Copper electrolytic coating with bronzing chemical oxidation and protective oil.

APPEARANCE APPLICATION



Dark wood. Hardware components for furniture.

BRASS-PLATING

Copper, Nickel and Brass electrolytic coating with passivation and protective lacquer.



Brass-plated hardware components (handles, plates, etc.).

NICKEL-PLATING

Galvanic treatment of Nickel on Copper.



Nickel-plated hardware components (handles, furniture hinges, etc.).

HIGH-RESISTANT COATINGS

The main characteristic of these coatings is **to protect screws against rust and corrosion**, in order to guarantee reliability over time.

The parameter used to express the resistance to rust corrosion is the number of hours of permanence in salt spray before red rust appearance. Tests are compliant with standard **UNI EN ISO 9227**.

TREATMENT

APPEARANCE APPLICATION

100 HOURS WHITE ZINC PLATING

Salt spray corrosion resistance: > 100 hrs.

Grade 3 standard EN 1670.



High resistance to corrosion.

Recommended for outdoor use, even in case of humid environment caused by rain or dew.

CHROMITING®

Salt spray corrosion resistance: > 240 hrs.

Grade 4 standard EN 1670.



High resistance to corrosion.

Recommended for outdoor use, even in case of aggressive atmospheres.

NEROPLUS®

Black coating, sealed with antiscratches treatment. Salt spray corrosion resistance: > 1,000 hrs. Grade 5 standard EN 1670.



Very high resistance to corrosion.

Recommended for outdoor use, even in case of aggressive atmospheres and prolonged exposure to corrosive agents.

TREATMENT

APPEARANCE CORROSION RESISTANCE

(numbers of hours of permanence in Salt Spray before red rust appearance, according to norm UNI EN ISO 9227)

	0 72hr	'S	100 hrs 24	Ohrs 1000 hrs
WHITE, YELLOW OR BLACK STANDARD PLATING				
PROTECTIVE COATINGS MUSTAD®				
WHITE ZINC PLATING 100 HOURS				
CHROMITING®				
SILVERPLUS®				
NEROPLUS®				





A TRADEMARK OF QUALITY AND SAFETY

- The MUSTAD logo printed on the head of all screws guarantees quality, reliability and safety.
- All production lots undergo SPC (Statistical Product Control) inspections.
- Lot numbers printed on labels for total traceability of all production steps.
- High quality standards maintained constant over time guarantee screws suitable for automatic or critical assembly.

CERTIFICATIONS

- Lloyd's certifications as screws manufacturer: ISO 9001: 2015 (n. LRC 10144819), IATF 16949: 2016 (n. 0336614) specific for automotive applications.
- EIFI (n. E1013) European Production Guarantee.
- AQP (Product Quality Assurance) certification conferred by automotive companies authorising MUSTAD to deliver directly to the production line without further acceptance inspections (Free-Pass).
- Direct MUSTAD Quality System Certification by primary companies in various sectors: automotive, household appliances, mechanical, constructions, door and window fixtures, etc.
- CE marking for assembly elements for making load-bearing timber structures, according to EN 14592:2009 (conferred by CSTB Centre Scientifique du Bâtiment, Paris, France).
- **DoP (Declaration of Performance)** according to European Constructions Regulation 305/2011.
- Rigorous respect of **standards** for protecting workers, the environment and customers.

TRADE ASSOCIATION

Leading the history of our country for over one hundred years.





COMMERCIAL BOX

- Content: 200 / 500 pieces.
- **Drawer-like opening**, can be closed again after use. Possibility of picking content from stacked boxes.
- All boxes are the same width for tidier storage.
- High crushing strength.

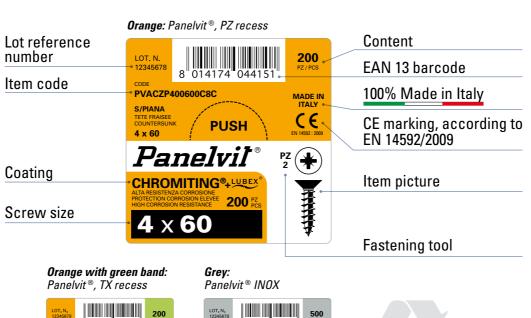
LABEL

- Three different colours for identifying product families.
- Visual identification of product features, with a description of use.
- Indication of the tool to be used for fastening.
- Lot reference number allowing total traceability of process documentation and testing compliant with ISO 9001 and IATF 16949.
- **CE mark** for all the screws for load-bearing timber assembly elements, according to EN 14592:2009.
- Item code.
- EAN 13 barcode.

COMPLETE PACKAGING OF AN ITEM

- Complete pre-packaging of commercial boxes **proportional to the sales turnover** of the various items.
- Storage and handling ease.
- Clear identification of contents with label affixed on the outside.







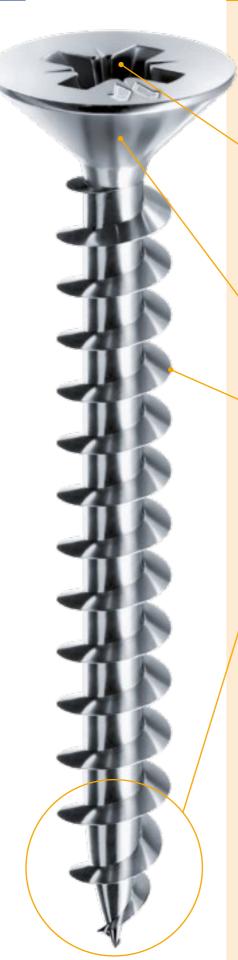








Panelvil® UNIVERSAL SCREW



Lubricated universal screw suitable for **screwing without pre-boring** in: chipboard panels, wood, hardware, thin plates, plastic and plugs.

DEEPER RECESS

to ensure correct coupling with the screwdriver bit.

A deep recess with a perfect geometry means that one bit can be used for thousands of screwing operations.



REINFORCED HEAD

to allow high screwing torque transmission.

SMOOTH, BITING PROFILE THREAD

to ensure fast advancement with minimum effort, **reducing** the risk of splitting the wood.

OGIVE-SHAPED POINT

(all-threaded), guarantees safe gripping without slipping and gradual, constant screw penetration.
The results is better penetration ease and

The results is better penetration ease and lower material cracking risk because there are no discontinuities.







CASE HARDENING TREATMENT

This confers two properties to the screw:

- very hard surface, for biting into the fibres of the hardest wood;
- tough, elastic core, needed to avoid breakage of screws.

PROTECTIVE TREATMENT

To protect the screw from rust and corrosion, guaranteeing reliability over time and providing appearance suited to all uses.

LUBEX LUBRICATION

This is a specific MUSTAD anti-friction treatment which **reduces the fastening force by up to 50%** with respect to a non-lubricated screw.

IN-PROCESS INSPECTIONS

The entire production process is subjected to SPC (Statistical Product Control) inspections, to make sure the high quality level is maintained constant over time.

The lot number printed on the labels ensures **total traceability** of all production steps and of the respective inspection/test documents.

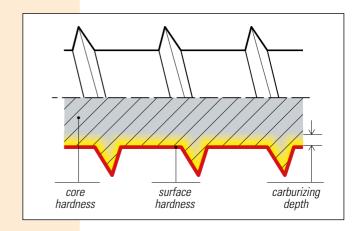
CALIBRATED SCREWS

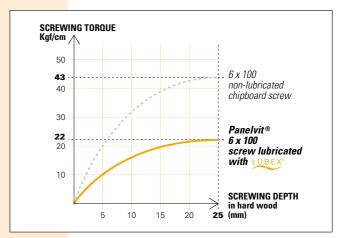
Panelvit® Mustad screws are made respecting tolerances which are stricter than those of standard fasteners. They can be defined "calibrated", i.e. suitable for automatic screwing systems.

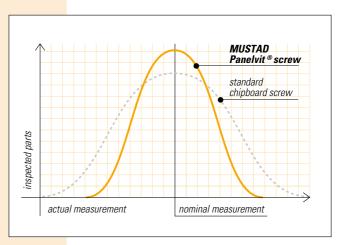
CE MARKING

For load-bearing timber assembly elements, according to EN 14592:2009 (awarded by CSTB Centre Scientifique du Bâtiment, Paris). Issue of DoP (Declaration of Performance), according to European Construction Products Regulation 305/2011.

⚠ Dimensional specifications, page 69.
 ⚠ Thermal, protective and lubrication treatment specifications, pages 7-10.









Countersunk Head CSK

Recess **PZ**





CHROMITING® LUBRICATED LUBEX

(Chromiting® description: page 10)

Diameters [mm]	2.5	3	3.5	4	4.5	5	6
PZ Recess	Z 1	Z 1	Z 2	Z 2	Z 2	Z 2	Z3
ength/Thread [mm]							
10	•	•					
12	•	•	•	•			
16	•	•	•	•	•		
18	•	•	•	•			
20	•	•	•	•	•	•	
25	•	•	•	•	•	•	
30	•	•	•	•	•	•	•
35		•	•	•	•	•	
40		•	•	•	•	•	•
45		•	•	•	•	•	
50			•	•	•	•	•
55			•	•	•		
60				•	•	•	•
70				•	•	•	•
80 /70				•	•	•	•
90 /70				•	•	•	•
100 /70						•	•
110 /70						•	•
120 /70						•	•
130 /70							•
140 /70							•
160 /70							•
180 /70							•
200 /70							•
Boxes	500 pieces		200 p	nieces	_	100 r	ieces

C E EN 14592 : 2009

Items code: PVACZP Diameter x Length C8C

Countersunk Head **CSK**

Recess **PZ**



BRONZED LUBRICATED LUBEX

(bronze plating description: page 9)

iameters [mm]	2.5	3	3.5	4	4.5	5	6
PZ Recess	Z 1	Z 1	Z 2	Z 2	Z 2	Z 2	Z3
ngth/Thread [mm]							
10	•	•					
12	•	•	•				
16	•	•	•	•			
18	•	•	•	•			
20	•	•	•	•	•	•	
<i>2</i> 5	•	•	•	•	•	•	
30	•	•	•	•	•	•	•
35		•	•	•	•	•	
40		•	•	•	•	•	•
45		•	•	•	•	•	_
50			•	•	•	•	•
60				•	•	•	•
70				•	•	•	•
80 /70				•	•	•	•
90 /70				•	•	•	•
100 /70						•	•
110 /70						•	•
120 /70						•	•
130 /70							•
140 /70							•
150 /70							•
160 /70							•
180 /70							•
200 /70							•
Boxes	500 pieces		200 p	nieces		100 r	oieces

EN 14592 : 2009

Items code: PVACZP Diameter x Length BZC



Assorted MUSTAD CASE available For details see page 66

Countersunk Head

Recess **PZ**



BRASS-PLATED

(brass-plating description: page 9)

Diameters [mm]	2.5	3	3.5	4	4.5	5
PZ Recess	Z 1	Z 1	Z 2	Z 2	Z 2	Z 2
Length/Thread [mm]						
12	•					
16	•	•	•	•		
20	•	•	•	•		
25		•	•	•		
30		•	•	•	•	•
35		•	•	•	•	
40		•	•	•	•	•
50			•	•	•	•
60				•	•	•
70					•	•
80 /70						•
Boxes	500 p	nieces		_	200 pieces	

Items code: PVACZP Diameter x Length OTC

Countersunk Raised Head **CSKR**

Recess **PZ**



BRASS-PLATED

(brass-plating description: page 9)

Diameters [mm]	3.5	4.5	
PZ Recess	Z 2	Z 2	
Mustad Type	259A		
Length [mm]			Boxes
20	•		
25	•		EOO ninga
30	•	•	500 pieces
35		•	
45		•	
50		•	200 pieces
60		•	

Items code: diameter 3.5 mm: FR (Mustad Type) Diameter x Length OTC diameter 4.5 mm: PVACZS Diameter x Length OTC

version with bracking ribs under the head

Panelvil® UNIVERSAL SCREW





Boxes



200 pieces



NEROPLUS® LUBRICATED (Neroplus® description: page 10) Diameters [mm] 3 3.5 4 4.5 PZ Recess Z 1 Z 2 Z 2 *Z2* Length [mm] 16 • • 20 • *2*5 • • *30* • • *35* • 40 • **50**

500 pieces

Items code: PVACZP Diameter x Length KNC

PFPartial Thread
PZ Recess

Panelvil®PF PARTIAL THREAD PZ RECESS

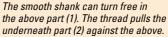
Screw recommended for **fixing thick parts** without preboring.

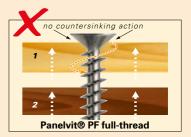
Self-countersinking ribs under the head perform a **milling action during tightening**, and create a housing for the screw for a perfectly flushed alignment with the surface of the material.

The smooth portion of the shank (40% of the screw length) provides a pulling effect on the two parts to obtain correct alignment.

Fastening differences between a full-thread Panelvit® and a Panelvit® PF.







The thread works in the same way on both parts. The underneath part (2) can not pull against the above part (1).

LUBRICATION LUBEX

MUSTAD antifriction treatment for **reducing fastening force by up to 50%**.



⚠ Dimensional specifications, page 69.
 ⚠ Thermal, protective and lubrication treatment specifications, pages 7-10.





Countersunk Head **CSK**

PZ





CHROMITING® LUBRICATED LUBEX

(Chromiting® description: page 10)

Diameters [mm]	3.5	4	4.5	5	6
PZ Recess	Z 2	Z 2	Z 2	Z 2	Z3
Length/Thread [mm]					
30 /18	•	•			
35 /20	•	•			
40 /25	•	•	•		
45 /28	•	•	•		
50 /30	•	•	•	•	-
60 /34		•	•	•	•
70 /43		•	•	•	•
80 /47			•	•	•
Boxes	500 pieces		200 p	pieces	

PANELVIT® PF longer than 80 mm are only available without self-countersinking ribs under the head (see page 17)

Items code: PFACZP Diameter x Length C8C

Countersunk Head CSK

Recess



BRONZED LUBRICATED LUBEX

(bronze plating description: page 9)

Diameters [mm]	3.5	4	4.5	5	6
PZ Recess	Z 2	Z 2	Z 2	Z 2	Z3
ength/Thread [mm]					
30 /18	•	•			
35 /20	•	•	•		
40 /25	•	•	•	•	
45 /28	•	•	•	•	
50 /30	•	•	•	•	
60 /34		•	•	•	•
70 /43		•	•	•	•
80 /47			•	•	•
Boxes	500 pieces	_	200 g	nieces	

Items code: PFACZP Diameter x Length BZC



PANELVIT® PF longer than 80 mm are only available without self-countersinking ribs under the head (see page 18)

UNIVERSAL SCREW TX RECESS



Lubricated universal screw suitable for screwing without pre-boring in: chipboard panels, wood hardware, thin plates, plastic and plugs.

The screwing force is entirely transferred by the very deep, vertical wall TX head. This avoids stripping of the bit and wear of the recess.



Only three recesses to screw all the range:

Diameter: 3	TX 10 Recess
Diameter: 3.5 - 4 - 4.5 - 5	TX 20 Recess
Diameter: 6	TX 30 Recess

CHROMITING® PROTECTIVE TREATMENT

This iridescent white treatment guarantees a much better rust protection than normal galvanisation treatments.

LUBRICATION LUBEX

MUSTAD antifriction treatment for reducing fastening force by up to 50%.



△ Dimensional specifications, page 69. ⚠ Thermal, protective and lubrication treatment specifications, pages 7-10.



Panelvil® TX UNIVERSAL SCREW TX RECESS

Countersunk Head CSK Recess **TX**





CHROMITING® LUBRICATED LUBEX

(Chromiting® description: page 10)

Diameters [mm]	3	3.5	4	4.5	5	6
TX Recess	TX10	TX20	TX20	TX20	TX20	TX30
Length/Thread [mm]						
16	•	•	•			
18		•	•			
20	•	•	•			
25	•	•	•			
30		•	•	•	•	
35		•	•	•	•	
40		•	•	•	•	•
50		•	•	•	•	•
60			•	•	•	•
70			•	•	•	•
Boxes	500 p	ieces		200 p	nieces	

Items code: PVACXP Diameter x Length C8C

PF TXPartial Thread
TX Recess



PARTIAL THREAD TX RECESS

Screw recommended for **fastening hard or thick wood**. Applications in carpentry and constructions and for building timber structures.

Only three recesses to screw all the range:

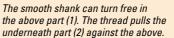
Diameter: 3	TX 10 Recess
Diameter: 3.5 - 4 - 4.5 - 5	TX 20 Recess
Diameter: 6	TX 30 Recess

Self-countersinking ribs under the head perform a **milling action during tightening**, and create a housing for the screw for a perfectly flushed alignment with the surface of the material.

The smooth portion of the shank (40% of the screw length) provides a pulling effect on the two parts to obtain correct alignment.

Fastening differences between a full-thread Panelvit® and a Panelvit® PF.







The thread works in the same way on both the parts. The underneath part (2) can not pull against the above part (1).

CHROMITING® PROTECTIVE TREATMENT

This iridescent white treatment guarantees a much better rust protection than normal galvanisation treatments.

LUBRICATION LUBEX

MUSTAD antifriction treatment for **reducing fastening force by up to 50%**.



⚠ Dimensional specifications, page 69.
 ⚠ Thermal, protective and lubrication treatment specifications, pages 7-10.





Panelvil®PFTX PARTIAL THREAD TX RECESS









CHROMITING® LUBRICATED LUBEX®

(Chromiting® description: page 10)

Diameters [mm]	3	3.5	4	4.5	5	6
TX Recess	TX10	TX20	TX20	TX20	TX20	TX30
Length/Thread [mm]						
30 /18	•	•	•			
35 /20	•	•	•			
40 /25	•	•	•	•	•	
45 /28		•	•	•	•	
50 /30		•	•	•	•	•
60 /34			•	•	•	•
70 /43			•	•	•	•
80 /47			•	•	•	•
90 /70					•	•
100 /70					•	•
120 /70					•	•
130 /70						•
140 /70						•
150 /70						•
160 /70						•
180 /70						•
200 /70						•
Boxes	500 p	ieces	200 p	nieces	100 r	nieces

C E EN 14592 : 2009





Assorted MUSTAD BOX available For details see page 65

Panelvil® UNIVERSAL SCREW



The **head geometry** develops a **high clamping pressure** making these screws perfect for fastening door and window fixture hardware like shutter hinges and furniture hardware.



LUBRICATION LUBEX®

MUSTAD antifriction treatment for **reducing fastening force by up to 50%**.



△ Dimensional specifications, page 69.
△ Thermal, protective and lubrication treatment specifications, pages 7-10.



PAN HEAD







NEROPLUS® LUBRICATED

(NeroPlus® description: page 10)

Diameters [mm]	3.5	4	4.5	5
PZ Recess	Z 2	Z 2	Z 2	Z 2
Length [mm]			,	'
16	•			
20	•	•		•
25	•	•		•
30	•	•	•	•
35			•	•
40			•	•
50				•
Boxes		500 pieces		200 pieces

Items code: PVACZC Diameter x Length KNC

PAN HEAD







CHROMITING® LUBRICATED LUBEX

(Chromiting® description: page 10)

Diameters [mm]	3	3.5	4	5
PZ Recess	Z 1	Z 2	Z 2	Z 2
Length [mm]		'		,
12		•	•	
16	•	•	•	
20		•	•	•
25		•	•	•
30			•	•
35			•	
40			•	•
50				•
Boxes		500 pieces		200 pieces

Items code: PVACZC Diameter x Length C8C

Panelvil®FFL FLANGED HEAD



With a wide head geometry, these screws can develop a **high clamping pressure** making them ideal for fixing pipe collars, brackets and supports.





LUBRICATION LUBEX MUSTAD antifriction treatment for **reducing fastening force by up to 50%.**

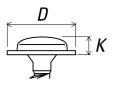


⚠ Thermal, protective and lubrication treatment specifications, pages 7-10.



Panelvil®FFL FLANGED HEAD

Head sizes (sizes in mm)



Screw diameter	4.5	5	
Head diameter D max.	10	12	
Head height K max.	3,00	3.50	

FIanged Head

Recess PZ



WHITE ZINC PLATED 100 HOURS LUBRICATED LUBEX

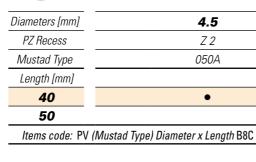
5

Z2

113A

•

(MUSTAD "100 HOURS" white zinc plating description: page 10)



Boxes
500 pieces
200 pieces



Panelvil®INOX STAINLESS STEEL A2



Specific screw for outdoor use in humid or marine environments or in presence of industrial and aggressive atmospheres.

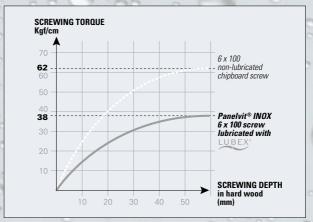
Panelvit® INOX is made of austenitic stainless steel A2 to guarantee excellent corrosion and rust prevention.

Although not being thermally treated, PANELVIT® INOX can be inserted without pre-boring also in hard wood and it allows safe, fast fastening.

These effects are achieved as a result of:

- work hardened material which avoid breakage of the screw and stripping of the recess;
- MUSTAD LUBEX lubrication, which reduces the screwing force by 50% (see chart);
- deep, smooth, sharp thread;
- multiple radius tip (ogive-shaped).

Screwing force of a Panelvit B lubricated with $\overset{\texttt{LUBEX}^{\circ}}{}$ with respect to a non-lubricated screw.



The passivation treatment confers a brilliant, shiny and long-lasting finish.

Dimensional specifications, page 69.



Panelvil®INOX STAINLESS STEEL A2

Countersunk Head

Recess **PZ**





PASSIVATED LUBRICATED LUBEX®

Diameters [mm]	3	3.5	4	4.5	5	6
PZ Recess	Z 1	Z 2	Z 2	Z 2	Z 2	Z3
ength/Thread [mm]						
16	•	•	•			
20	•	•	•			
25	•	•	•			
30	•	•	•	•	•	
35		•	•	•	•	
40		•	•	•	•	
50			•	•	•	•
60 /50			•	•	•	•
70 /50				•	•	•
80 /50					•	•
100 /50						•
Boxes:	200 g	nieces		100 p	ieces	

Items code: PVICZP Diameter x Length PSC



Recess **TX**



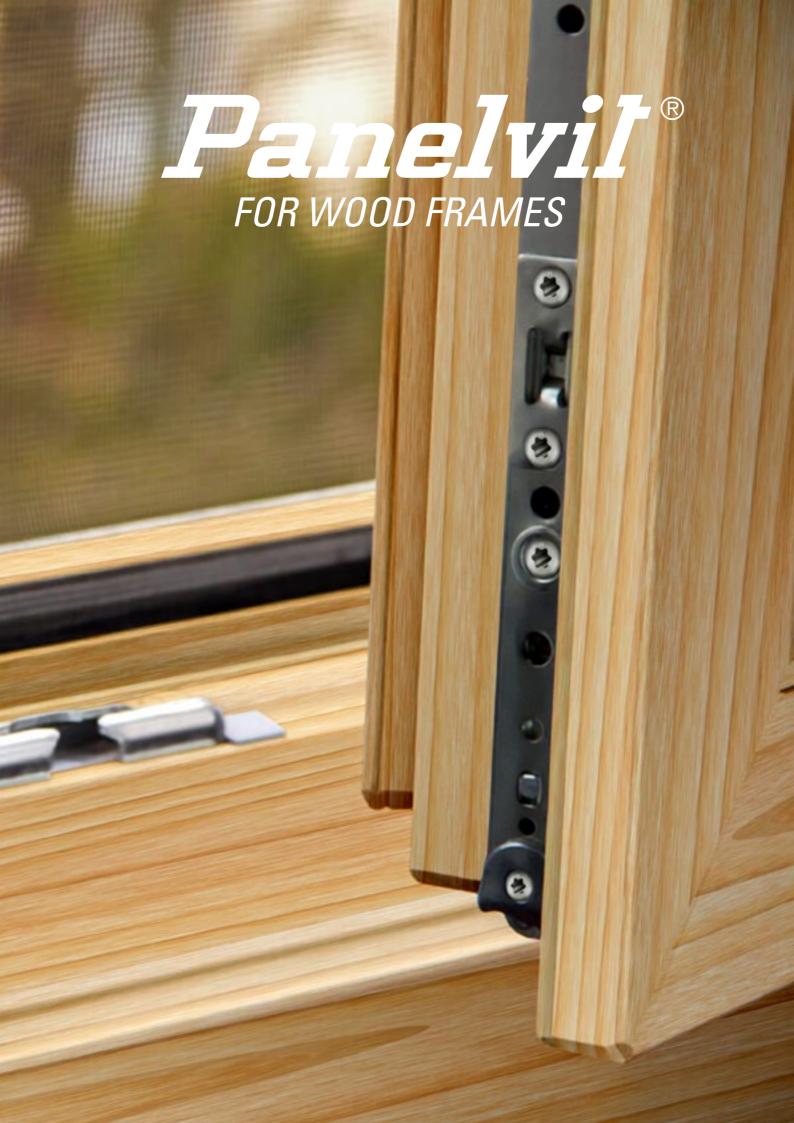


PASSIVATED LUBRICATED LUBEX®

Diameters [mm]	5	
TX Recess	TX 20	
Mustad Type	340I	
Length/Thread [mm]		Boxes
50 /30	•	
60 /34	•	200 pieces
70 /43	•	
Itama anda: DE2401 Diamatar y Lang	th DCC	

Items code: PF340I Diameter x Length PSC





TD CUT

Reduced Head Anti-Split Tip

Panelvil® TD cut FOR FIXING WINDOWS HARDWARE

Partially threaded screw with reduced head and anti-split **CUT** tip recommended for fastening tilt and turn hardware systems made by the most common European manufacturers.

The head (Ø 7 mm) adapts perfectly to the countersinking present on the hardware elements to be fixed.

The smooth part of the shank does not interfere with the system movement even in case of inclined screwing.







The thread (Ø 4 mm) guarantees a pull-out strength much higher than that of common Ø 3.5 mm screws.

The anti-split CUT tip is ideal for fastening near the frame edges (angular movements, scissor supports, hinges), where traditional screws could cause splitting and compromise the fastening and satisfactory operation of the system.

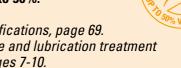
CHROMITING® PROTECTIVE TREATMENT

This iridescent white treatment guarantees a much better rust protection than normal galvanisation treatments.

LUBRICATION LUBEX

MUSTAD antifriction treatment for reducing fastening force by up to 50%.

△ Dimensional specifications, page 69. ⚠ Thermal, protective and lubrication treatment specifications, pages 7-10.







Panelvil® TD cut FOR FIXING WINDOWS HARDWARE

Countersunk Raised Head **CSKR**

Recess TX





CHROMITING® LUBRICATED LUBEX

(Chromiting® description: page 10)

Diameters [mm]	4	
TX Recess	TX 20	
Mustad Type		
Length/Thread [mm]		Boxes
35 /20	•	1 000
40 /25	•	1,000 pieces

Items code: P1507A Diameter x Length C8C

"CUT" TIP



Recess PZ





CHROMITING® LUBRICATED LUBEX

(Chromiting® description: page 10)

Diameters [mm]	4	
PZ Recess	Z 2	
Mustad Type	382A	
Length/Thread [mm]		Boxes
30 /20	•	1 000 piaga
35 /20	•	1,000 pieces

Items code: P1382A Diameter x Length C8C

"CUT" TIP

Panelvil CUT FOR FIXING INVISIBLE HINGES



Screw with anti-split CUT tip specific for fixing invisible interior door hinges.

The screw head is housed in the hinge countersinking so as not to hinder cover plate insertion.

The anti-split CUT tip penetrates into the wood . (natural, agglomerate, MDF) of the doors or the frame without splitting the material or the surface laminate.



LUBRICATION LUBEX®

MUSTAD antifriction treatment for reducing fastening force by up to 50%.

△ Dimensional specifications, page 69. ⚠ Thermal, protective and lubrication treatment specifications, pages 7-10.



WHITE ZINC PLATED 100 HOURS LUBRICATED LUBEX

(MUSTAD "100 HOURS" white zinc plating description: page 10)

Diameters [mm]	4	5	_
PZ Recess	Z 2	Z 2	_
Mustad Type	311A	417A	
Length [mm]			Boxes
25	•		F00 = i====
30		•	500 pieces

Items code: PV (Mustad Type) Diameter x Length B8C

Panelvil® TD REDUCED HEAD FOR LOCKS FIXING

TD Reduced Head

The reduced head adapts to the countersinking on the door locks.



The reduced head allows to use a 3.5 mm diameter screw that guarantees a better tightness, avoiding the coming out of the head from the hardware.

NICKEL-PLATED TREATMENT

for a better matching with the hardware to be fixed.

△ Dimensional specifications, page 69.

△ Thermal, protective and lubrication treatment specifications, pages 7-10.





NICKEL-PLATED

(nickel-plating description: page 9)

Diameters [mm]	3.5	
PZ Recess	Z 2	
Mustad Type	120A	
Length [mm]		
20	•	
Item code: PV120A D	iameter x Length NIC	_

Boxes 500 pieces

PC For Plastic Caps

Panelvil® PC

FOR PLASTIC CAPS



Screw with a special recess designed to accommodate a decorative plastic cap. Various colours are available. It is particularly suited for windows, doors and furniture and in all cases in which it is desirable to cover the screw head for aesthetic



Plastic caps provided with "ribbed" shank ensure high pull-out strength. No glue needed for installation.

purposes.



LUBRICATION LUBEX

MUSTAD antifriction treatment for reducing fastening force by up to 50%.



△ Dimensional specifications, page 69. ⚠ Thermal, protective and lubrication treatment specifications, pages 7-10.



Panelvil®PC

Countersunk Head

Recess **PZ**



WHITE ZINC PLATED 100 HOURS LUBRICATED LUBEX

(MUSTAD "100 HOURS" white zinc plating description: page 10)

Diameters [mm]		4.5	5	
PZ Recess		Z 2	Z 2	
Length/Thread [mm]				
30		•		
35		•		
40		•		
50		•		
60		•	•	
70		•		
Boxes	500 pieces	ر 200	pieces	

Items code: PCACPP Diameter x Length B8C

PLASTIC CAPS FOR PANELVIT® PC SCREWS

diameter 12 mm



WHITE RAL Code 9003



BLACK

RAL Code
9005



BEIGE RAL Code 1001



LIGHT BROWN RAL Code 8003



DARK BROWN RAL Code 8017

500 pieces Boxes

Item code: CPPC RAL Code 01200CC

↑ Important: the plastic caps must be used in combination with Panelvit® PC screws.

Panelvil®FC

LARGE HEAD WITH COLLAR

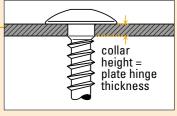


Particularly suited for fixing hinges and shutter plate hinges for window fixtures and window shutters made of wood, aluminium and PVC.

The large head provides a strong clamping pressure and better hole coverage than common pan head screws.

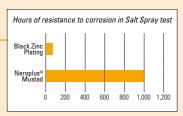
The collar, as thick as the plate hinge, centres the hole and provides axial hold to prevent the window shutter from inclining.





NEROPLUS® RUSTPROOF TREATMENT

This treatment confers a rust corrosion resistance in the Salt Spray test that is 15 times higher than traditional black plating.



The scratchproof sealing provides **excellent resistance and improves aesthetic appearance**.

LUBRICATION LUBEX®

MUSTAD antifriction treatment for **reducing fastening force by up to 50%**.



⚠ Dimensional specifications, page 69.
 ⚠ Thermal, protective and lubrication treatment specifications, pages 7-10.



Panelvil®FC LARGE HEAD WITH COLLAR

Large Head with Collar **FC**

Recess TX







NEROPLUS® LUBRICATED

(NeroPlus® description: page 10)

Diameters [mm]	5.5	6	7	_
TX Recess	TX 30	TX 30	TX 30	_
Mustad Type	208A	029A / 312A	057A	_
Length/Thread [mm]				Boxes
20		•		
25		•		_
30	•	•	•	200 niona
35	•	•		200 pieces
40		•	•	
45		•		_
50		•	•	
60 /Thr.		•	•	100 niono
70 /Thr.		•	•	100 pieces
80 /Thr.		•		_

Thr.: Maximum thread length: Diameter 6: 70mm Diameter 7: 50mm

Diameter 6: PV029A Diameter x Length KNC (up to length 50 mm)
PV312A Diameter x Length KNC (from length 60 mm)
Other Diameters: PV (Mustad Type) Diameter x Length KNC Items code:

Large Head with Collar FC

Recess TX





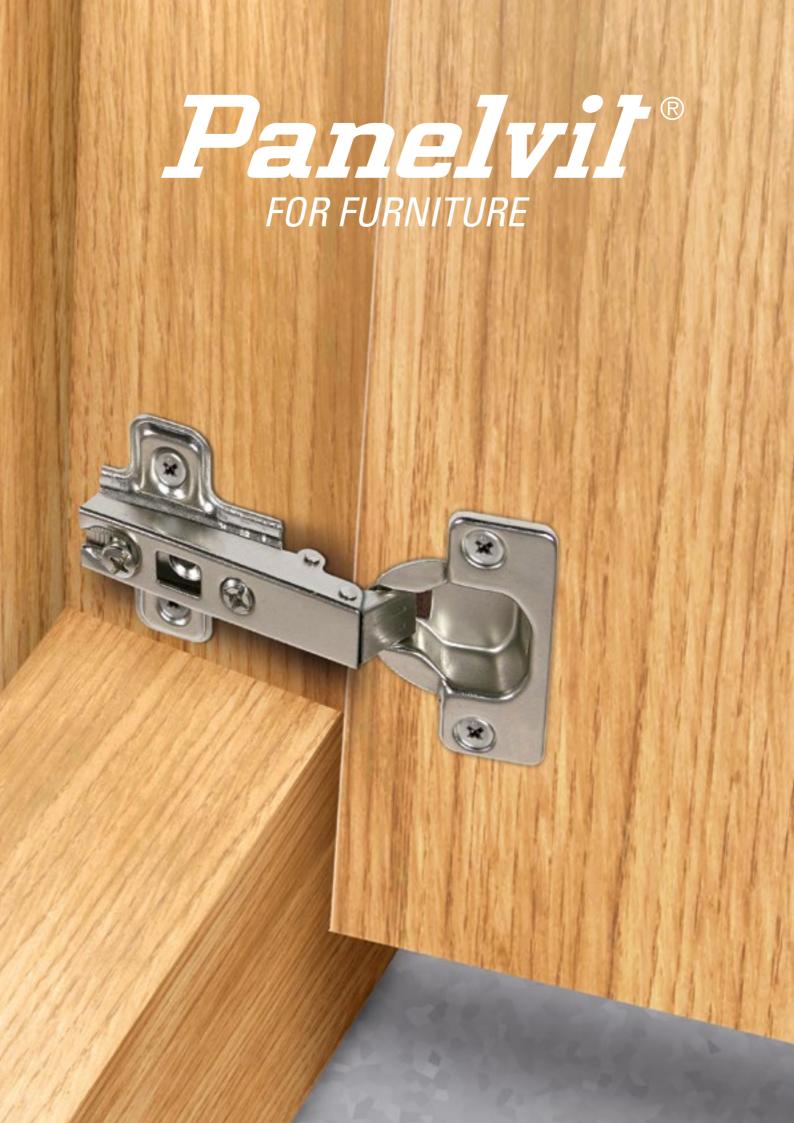


NEROPLUS® LUBRICATED

(NeroPlus®description: page 10)

Diameters [mm]	5	
PZ Recess	Z 2	
Mustad Type	947B	
Length [mm]		Boxes
20	•	
25	•	
30	•	500 pieces
35	•	
40	•	200 pieces





Panelvil® BULK BOXES FOR HIGH VOLUMES



Lubricated universal screw suitable for screwing without pre-boring in: chipboard panels, wood, hardware, thin plates, plastic and plugs.

DEEPER RECESS

to ensure correct coupling with the screwdriver bit. A deep recess with a perfect geometry means that one bit can be used for thousands of screwing operations.



SMOOTH, BITING PROFILE THREAD

to ensure fast advancement with minimum effort, **reducing** the risk of splitting the wood.

OGIVE-SHAPED POINT

(all-threaded), guarantees safe gripping without slipping and gradual, constant screw penetration. The results is better penetration ease and lower material cracking risk because there are no discontinuities.



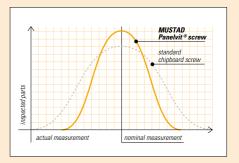
LUBRICATION LUBEX®

MUSTAD antifriction treatment for **reducing fastening force by up to 50%**.



SUITABLE FOR AUTOMATIC SCREWING SYSTEMS:

- 1 Stricter tolerances than those of standard fasteners.
- 2-Reduced risk of mixing and presence of foreign bodies.



- △ Dimensional specifications, page 69.
- ⚠ Thermal, protective and lubrication treatment specifications, pages 7-10.

Panelvil® BULK BOXES FOR HIGH VOLUMES

THE BULK BOX

BOX FEATURES

- Content: 6.000/20.000 pieces depending on items.
- Side opening: no cutting tools needed.
- Weight: lower than 10kg.
- High resistance to crushing.

LABEL

- Visual identification of the content's characteristics.
- Indication of the bit to use.
- Item code.
- Barcode.
- Batch number

to guarantee the process traceability according to standard ISO 9001 and IATF 16949.





Countersunk Head CSK

Recess **PZ**





13500	
M	WHITE ZINC PLATED 100 HOURS LUBRICATED LUBEX
	(MUSTAD "100 HOURS" white zinc plating description: page 10)

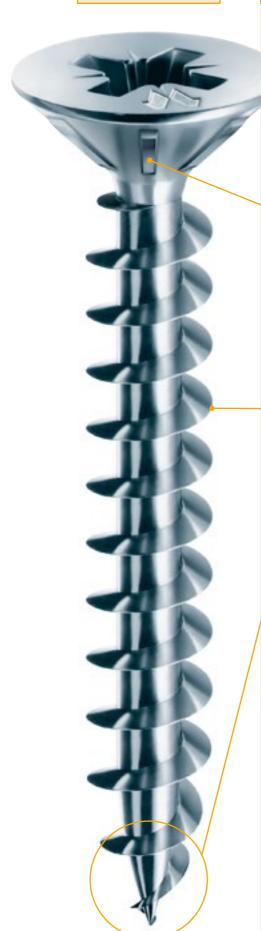
Diameters [mm]	2.5	3	3.5	4
PZ Recess	Z 1	Z 1	Z 2	Z 2
Length/Thread [mm]				
10		•		
12			•	•
14				•
15			•	
16	•	•	•	•
18			•	•
20	•		•	•
25			•	•

Items code: PVACZP Diameter x Length B8S

FRBraking Effect

Panelvil*FR

BRAKING EFFECT



Specific screw for fastening furniture hardware on low-density materials, such as chipboard, MDF and soft wood, avoiding stripping when tightening.



Sharp angle bracking ribs under the head cause:

- stopping by friction when tightening to avoid stripping the material.
- better twist-off and pull-out resistance even in applications subject to major mechanical stress.



The sharp thread and narrow pitch ensure strong pull-out strength to the screw also when screwed into typically thin furniture panels.

The ogive-shaped tip, threaded to the end, gradually penetrates into the material deforming it without causing splitting and avoiding damage to the laminated finishing surface.

LUBRICATION LUBEX®

MUSTAD antifriction treatment for **reducing fastening force by up to 50%**.



⚠ Dimensional specifications, page 69.

⚠ Thermal, protective and lubrication treatment specifications, pages 7-10.



Panelvil® FR

BRAKING EFFECT

Countersunk Head

Recess **PZ**





WHITE ZINC PLATED 100 HOURS LUBRICATED LUBEX

(MUSTAD "100 HOURS" white zinc plating description: page 10)

Diameters [mm]	3.5	4
PZ Recess	Z 2	Z 2
Mustad Type	257A	258A
Length [mm]		
16	•	•
18	•	•

Items code: FR (Mustad Type) Diameter x Length B8C (commercial box)
FR (Mustad Type) Diameter x Length B8S (bulk box)

Countersunk Raised Head **CSKR**

Recess **PZ**





WHITE ZINC PLATED 100 HOURS LUBRICATED WEEK

(MUSTAD "100 HOURS" white zinc plating description: page 10)

Diameters [mm]	3.5	
PZ Recess	Z 2	
Mustad Type	259A	
Length [mm]		
16	•	
18	•	

Items code: FR (Mustad Type) Diameter x Length B8S

Countersunk Raised Head CSKR

Recess **PZ**





NICKEL-PLATED

(nickel-plated description: page 9)

Diameters [mm]	3.5	4	
PZ Recess	Z 2	Z 2	
Mustad Type	259A	264A	
Length [mm]			
16	•		
 18	•	•	

Items code: FR (Mustad Type) Diameter x Length NIC

Boxes

500 pieces

Boxes

1,000 pieces

Panelvil®AF

ANTI-SPLITTING TIP

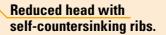


AF TIP

Specific screw for use without pre-boring on:

- MDF panels
- thin laminate panels and chipboards
- thin wood or plywood
- matchboards and angular elements
- edges and corners (also original)

without splitting or creating bulges in the material.



It penetrates easily into the material. The self-countersinking ribs and reduced countersinking angle prevent an undesired "wedge effect" while tightening.

Example of screwing close to the edge:



Screwing of Panelvit * AF without pre-boring.



Screwing with traditional chipboard screw without pre-boring.

Partial threading.

For optimal, fast tightening also for joining very thick panels.

AF (Anti-Splitting) Self-Drilling Tip.

It perforates wood like a drill bit by venting the wood chips. The hole accommodates the threading and the screw **penetrates without splitting.**

LUBRICATION LUBEX

MUSTAD antifriction treatment for **reducing fastening force by up to 50%**.



⚠ Dimensional specifications, page 69.
⚠ Thermal protective and lubrication tree

⚠ Thermal, protective and lubrication treatment specifications, pages 7-10.



Panelvil®AF

Countersunk Head CSK

Recess PZ



Boxes

500 pieces

200 pieces





CHROMITING® LUBRICATED LUBEX® (Chromiting® description: page 10)

4	
•	
•	
•	
•	



AF TIP







CHROMITING® LUBRICATED LUBEX®

(Chromiting® description: page 10)

Diameters [mm]	4	
TX Recess	TX 15	
Mustad Type		
Length/Thread [mm]		Boxes
35 /20	•	500 pieces
Items code: AF224	A Diameter x Length C8C	

MUSTAD

Panelvil® TPL

LARGE FLAT HEAD FOR FURNITURE BACK PANELS

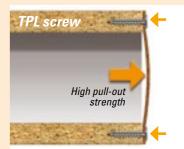


The head geometry develops a high clamping pressure making this screw particular suitable for fastening furniture back panels usually made of very soft material (thin plywood or cardboard).



The flat surface under the head does not generate the undesired "wedge effect" caused by flat countersunk head screws. The wide area under the head also provides high back panel pull-out strength.





The ogive-shaped tip, threaded to the end, gradually penetrates into the material deforming it without causing splitting and avoiding damage to the laminated finishing surface.

LUBRICATION LUBEX

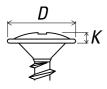
MUSTAD antifriction treatment for **reducing fastening force by up to 50%**.



⚠ Dimensional specifications, page 69.
 ⚠ Thermal, protective and lubrication treatment specifications, pages 7-10.



Head sizes (sizes in mm)



Screw diameter	3.5	4
Head diameter D max.	8,30	9,40
Head height K max.	1,60	1,90

Large Flat Head **TPL**

Recess PZ



WHITE ZINC PLATED 100 HOURS LUBRICATED LUBEX®

(MUSTAD "100 HOURS" white zinc plating description: page 10)



Diameters [mm]	3.5 4	
PZ Recess	Z 2 Z 2	
Mustad Type	415A 416A	
Length [mm]		Boxes
20	• •	500 min and
25	•	500 pieces

Items code: PV (Mustad Type) Diameter x Length B8C



Panelvil and KOVERVIT FOR WOOD CONSTRUCTIONS



FC Large Head with Collar

Panelvil *FC LARGE HEAD WITH COLLAR

Large head TX recess screw suited for fixing hardware for wood constructions and for assembling wood structures.

The TX recess allows easy and fast screwing without slipping.

FIXING HARDWARE

The large head provides a strong clamping pressure and better hole coverage (fig. 1) than common countersunk head screws (fig. 2).

The collar centres the hole and provides axial holding functions.



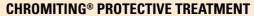






The large head and the partial thread guarantee a high tightening torque without damaging the screw surface (fig. 3), as it commonly happens with a countersunk head screw (fig. 4).

The large head covers the hole and prevents water infiltrations that would damage the wood faster.



This iridescent white treatment guarantees a much better rust protection than normal galvanisation treatments.

LUBRICATION LUBEX

MUSTAD antifriction treatment for reducing fastening force by up to 50%.



⚠ Dimensional specifications, page 69.

⚠ Thermal, protective and lubrication treatment specifications, pages 7-10.





Large Head with Collar **FC**

Recess TX





CHROMITING® LUBRICATED LUBEX

(Chromiting® description: page 10)

D'			
Diameters [mm]	6	7	
TX Recess	TX 30	TX 30	
Mustad Type	029A / 312A	057A	<u> </u>
Length/Thread [mm]			Boxes
25	•		
30	•		
35	•		200 pieces
40	•	•	
50	•	•	
60 /Thr.	•	•	
70 /Thr.	•	•	
80 /Thr.	•	•	100 '
100 /Thr.	•	•	100 pieces
120 /Thr.		•	
140 /Thr.		•	
160 /Thr		•	

Thr: maximum thread length: Diameter 6: 70mm

Diameter 7: 50mm up to 7x100, 70 mm from 7x120

Diameter 6: PV029A Diameter x Length C8C (up to length 50 mm)
PV312A Diameter x Length C8C (from length 60 mm)
Diameter 7: PV057A Diameter x Length C8C Items code:



KOVERVIT® AA HARDENED HEX LAG SCREW FOR WOOD



Special screw for fastening wood, miscellaneous conglomerate materials, plywood, chipboards, wood-metal sheet sandwich structures, fibreglass and thin metal sheets with no need for pre-boring.

HEX HEAD K 10

with sharp edges to guarantee a high transmission of the screwing torque.





30° ANGLE POINT

suitable for easily penetrating in all low-density materials. Threaded point and hard steel pierce roofing sheets directly with no need for pre-boring.

CASE HARDENING TREATMENT

Confers two properties to the screw:

- extra-hard surface capable of withstanding high friction and force when threading;
- tough, elastic core to avoid breakage of screws.
 Tearing strength is double than that of a common hex lag screw even of larger diameter.

CHROMITING® PROTECTIVE TREATMENT

This iridescent white treatment guarantees a much better rust protection than normal galvanisation treatments.

⚠ Thermal, protective and lubrication treatment specifications, pages 7-10.



KOVERVIT

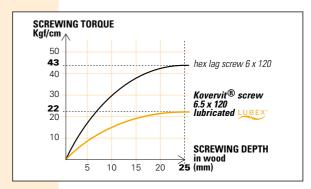
HARDENED HEX LAG SCREW FOR WOOD

LUBRICATION LUBEX®

The specific MUSTAD antifriction treatment reduces the screwing force by up to 50% with respect to a common hex lag screw even of smaller diameter.

CE MARKING

For load-bearing timber assembly elements, EN 14592:2009 (awarded by CSTB Centre Scientifique du Bâtiment, Paris). DoP (Declaration of **Performance**) issued according to the European Construction Products Regulation 305/2011.



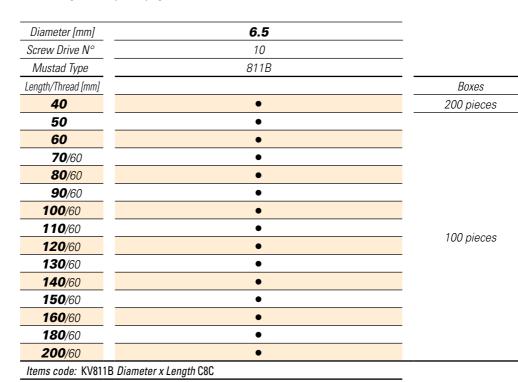


Hex Head KE





(Chromiting® description: page 10)





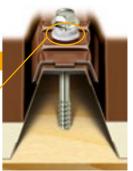


WATERPROOF WASHER

200 pieces boxes.

Item code: REPC000000600CC

Specific to prevent water infiltrations when placing the panels.



AF PT Wood Massive Parquet

Panelvil®AFPT ANTI-SPLITTING FOR WOOD MASSIVE PARQUET



Specific screw for fixing massive wood parquets.



The reduced head with milling ribs and TX hexalobular recess bites into the wood without causing splitting while tightening. The head completly penetrates into the wood to allow the interlocking of the next strip. The TX recess transmits all the screwing force and prevents slipping and wear in the recess.

Partial thread

for an optimal tightening on the wood support.

The AF Anti-Splitting tip allows to tighten diagonally, without any pre-boring.

LUBRICATION LUBEX

MUSTAD antifriction treatment for reducing fastening force by up to 50%.



△ Dimensional specifications, page 69. ⚠ Thermal, protective and lubrication treatment specifications, pages 7-10.



Panelvil AFPT ANTI-SPLITTING FOR WOOD MASSIVE PARQUET

Countersunk Head

Recess **TX**





CHROMITING® LUBRICATED LUBEX

(Chromiting® description: page 10)

 Diameters [mm]
 3.5

 TX Recess
 TX 10

 Mustad Type
 427A

 Length/Thread [mm]
 •

Boxes 500 pieces

Items code: AF427A Diameter x Length C8C



PF TX INOXDecking Screw

Panelvil® PF TX INOX DECKING SCREW



Specific screw for **outdoor applications** for making terraces, swimming pool decks and piers.

Made of austenitic stainless steel A2 to guarantee **excellent corrosion and rust prevention.**

The reduced head with milling ribs and TX recess

bites into the wood without causing splitting while tightening. The very deep TX recess transmits screwing torque and avoids the risk of stripping.



provides the pulling action needed to approach the deck to the support even if the elements are not straight.

Choice of the screw depending on the thickness of the deck to be fixed: Deck thickness ≤ 20 mm = screw 5 x 50 Deck thickness > 20 mm = screw 5 x 60 / 5 x 70





PASSIVATION TREATMENT

confers a brilliant, shiny and long-lasting finish.

LUBRICATION LUBEX

MUSTAD antifriction treatment for **reducing fastening force** by up to 50%.

Pre-boring is recommended in case of very hard wood.

△ Technical specifications and sizes, page 69.



Panelvil®PFTXINOX DECKING SCREW

Countersunk Head CSK

Recess **TX**





PASSIVATED LUBRICATED LUBEX®

_	В	OXES	BUCKETS			
Diameters [mm] TX Recess Mustad Type Length/Thread [mm]	5 TX 20 3401		5 TX 20 3401	bit TX 20 + INOX A2		
50 /30	•		•	400 pieces + bit TX 20		
60 /34	•	200 pieces	•	300 pieces + bit TX 20		
70 /43	•					
Items code: PF340I Dia	meter x Length PS	SC	Items code: PF3401	Diameter x Length PSB		





Mustad Box ASSORTED METAL CASE



Features:

- **Robust, professional case** with safety lock to prevent accidental opening.
- Content: 1910 assorted screws.
- Assortment of 15 sizes of Panelvit® lubricated

 LUBEX® screws with TX recess and Chromiting®,
 chosen within the most common.
- Ideal to have an assortment of universal screws always at hand, with the same TX 20 recess for all diameters.
- Indication of the tool to be used for fastening.
- Gauge for measuring screw diameter and length.

Panelvil TX W
133 18
Table Tabl
MUSTAD

Dimensions	Quantity (Pcs.)
3.5 x 16	250
3.5 x 20	200
3.5 x 25	180
3.5 x 30	100
4 x 20	180
4 x 25	150
4 x 30	170
4 x 35	140
4 x 40	110
4 x 50	90
4.5 x 40	60
4.5 x 50	60
5 x 40	90
5 x 50	70
5 x 60	60
TOTAL SCREWS	1910
Item code: MB	PV001501910C8



Mustad Case ASSORTED PLASTIC CASE

Features:

- Transparent, robust and anti-scratches **plastic case**.
- Content: 670 assorted screws.
- Assortment of 16 sizes of bronzed Panelvit® lubricated LUBEX® with TX recess, chosen within the most common.

- Back label with the indication of each compartment's content.



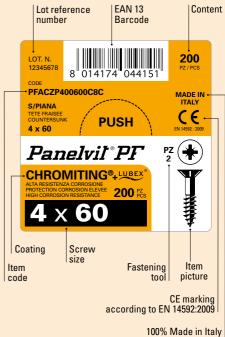
Dimensions	Quantity (Pcs.)
2.5 x 12	100
2.5 x 20	80
3 x 12	100
3 x 16	80
3 x 20	60
3.5 x 16	30
3.5 x 20	30
3.5 x 25	20
3.5 x 30	20
3.5 x 35	20
4 x 16	30
4 x 20	30
4 x 25	20
4 x 30	20
4 x 35	15
4 x 40	15
TOTAL SCREWS	670
Item code: ME	3PV001600670BZ

Muslad Expo



Features of the Mustad Expo for boxes:

- Module base sizes: (H x L x D) m 2 x 1 x 0.5.
- **Self-bearing structure**, no anchoring to wall needed.
- **5 shelves per module**, maximum capacity 50 Kg each.
- High display capacity: each display unit can contain up to 45 references in commercial boxes.



- Samples display.

Features of the Mustad Expo for bulk sale:

- Module base sizes: (H x L x D) m 2 x 1 x 0.5.
- **Self-bearing structure**, no anchoring to wall needed.
- **5 shelves per module**, maximum capacity **50** Kg each.
- High display capacity: each display unit can contain 40 carton boxes for bulk sale.
- The customer can buy the item/ quantity he prefers. He has to fill the desired size bag and then pay it to the cash desk.

Resealable bags. Available in 3 different sizes with barcode:

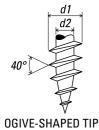


The Mustad Expo kit for bulk sale includes:

- 1 display unit (m 2 x 1 x 0.5)
- 40 carton boxes
- Labels of the items
- 1,000 bags in 3 sizes
- 3 hooks to place bags on the display



DIMENSIONAL SPECIFICATIONS



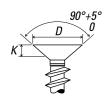
THI	READING							(sizes in mm)
Nom	inal diameter	2.5	3	3.5	4	4.5	5	6
.11	max.	2.55	3.05	3.55	4.05	4.55	5.05	6.05
d1	min.	2.36	2.86	3.32	3.82	4.32	4.82	5.82
d2	max.	1.59	1.99	2.35	2,67	2.81	3.11	3.75
	min.	1.40	1.80	2.12	2.44	2.58	2.88	3.52
	Maximum thread length 70 mm							



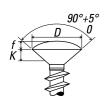
RECESSES							(sizes in mm)
Nominal diameter	2.5	3	3.5	4	4.5	5	6
PZ Recess N°	Z1	Z1	Z2	Z2	Z2	Z2	Z3
TX Recess N°	-	T10	T20	T20	T20	T20	T30



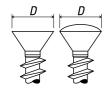
<u>PAI</u>	N HEAU							
D	max.	4.90	5.90	6.90	7.90	8.80	9.80	11.75
	min.	4.60	5.60	6.54	7.54	8.44	9.44	11.32
K	max.	2.00	2.25	2.60	2.80	3.00	3.50	4.10



COUNTERSUNK HEAD (CSK								
D	max.	5.00	6.00	7.00	8.00	9.00	10.00	12.00
	min.	4.70	5.70	6.64	7.64	8.64	9.64	11.57
K	max.	1.40	1.80	2.00	2.35	2.55	2.85	3.35



COUNTERSUNK RAISED HEAD (CSKR)									
D	max.	5.00	6.00	7.00	8.00	9.00	10.00	12.00	
	min.	4.70	5.70	6.64	7.64	8.64	9.64	11.57	
f		0.71	0.66	0.89	1.02	1.17	1.17	1.57	
K	max.	1.40	1.80	2.00	2.35	2.55	2.85	3.35	



REDU	ICED HEAD					(AF - TD)
D	max.		6.00	7.00	9.00	
	min.		5.70	6.64	8.64	



LARGE HEAD WITH COLLAR								
Ø thread: 5 mm	947B type	Ø collar: 5.80 mm	Ø head: 11 mm	PZ 2 Recess				
Ø thread: 5.5 mm	208A type	Ø collar: 5.90 mm	Ø head: 12.70 mm	TX 30 Recess				
Ø thread: 6 mm	029B/312A type	Ø collar: 5.90 mm	Ø head: 15 mm	TX 30 Recess				
Ø thread: 7 mm	057A type	Ø collar: 7 mm	Ø head: 17 mm	TX 30 Recess				
Ø thread: 7 mm	057A type	Ø collar: 7 mm	Ø head: 17 mm	TX 30 Recess				

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