

# BUILDING FASTENERS

FOR STEEL FRAMING & METAL ROOFING





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## ABOUT US

**For all your fastening system needs, look no further than Nessco Fasteners.**

Established as part of the Nessco Trade Supplies group, Nessco Fasteners provides market-leading, tried and tested solutions to the construction industry.

We specialise in a range of high-quality steel-to-steel and steel-to-timber fasteners that have been specifically engineered with harsh Australian conditions in mind.

Located in Welshpool, Western Australia, our team of product specialists are available to provide consultation and support when it comes to specifying the best fastening solution for your project.



### BUILT FOR AUSTRALIAN CONDITIONS

Painted and coated in Australia, our Fasteners are built to AS3566 Standards and have been designed to go the distance.



### COMPLETE SYSTEM SOLUTION

A one-stop-shop for any steel-to-steel or steel-to-timber applications - we can provide a full system for your project.



### ENGINEERED FOR THE INDUSTRY

We know the steel framing and metal roofing industries better than anyone. We trust our fasteners to do the job.



**1987**

Nessco is established as a specialised nailing and stapling supply company



**1995**

Refines a range of fasteners specifically catered to the carpentry & joinery industry



**1996**

Introduces market-leading screws for the timber manufacturing industry



**2006**

The Nessco Fasteners brand is born, bringing with it a more technical expertise



**2010**

Enters the modular housing industry with a range of steel framing and metal roofing solutions



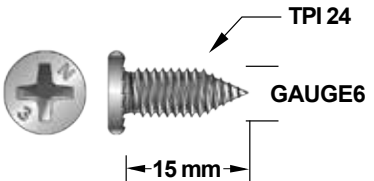



**2020**

After a decade of research and refinement, launches a new range of steel framing and cladding fasteners coated in Australia.

# NPM62415C3

NEEDLE POINT M6-24X15MM FRAMING SCREW - CLASS 3

**GALVANISED IN AUSTRALIA**

		<b>COATING</b>  <b>CLASS 3 TO AS3566 2002</b>	<b>DRILL RANGE</b>   <b>Pre Punched Holes</b>
<b>NEEDLE POINT</b> For the use in steel frames and trusses with pre-punched holes #P3 Phillips Driver Bit		<b>BOX QTY</b>  <b>1000</b>	
<b>PART NO</b>	<b>NPM62415C3</b>		
		 <b>QUICK ORDER CODE</b> <b>F068</b>	

Steel Base Material



## APPLICATION

Suitable for use in the assembly of:

- Steel Wall Frames
- Steel Roof Trusses
- Steel Floor Trusses
- This product requires pre-punched holes



## FEATURES AND BENEFITS

- Underhead serrations - serration lock underhead will provide resistance to loosening
- M6 thread - high shear and torsional strength values
- Needle point - A fast way to align screw with pre-punched holes
- P3 drive - extra control with large driver bit ensures solid connection between steel



## INSTALLATION INSTRUCTIONS

- Use a #3 Phillips Driver Bit
- Use mains or cordless screw driver with a speed up to 2,500rpm
- Fit the #3 Phillips Driver Bit into the screw and place it in pre-punched hole fastening position
- Recommended punch hole size: 5mm
- Apply consistent firm pressure on the screw driver until the screw has fastened. **DO NOT OVERTIGHTEN.**
- Clamping Torque - 3.04Nm into 2 x 075mm pieces of Truecore steel
- Strip Torque - 8.32Nm into 2 x 0.75Nm pieces of Truecore steel

*\*Appropriate screw gun / drill with torque control and depth gauge adjustment should be used.*

## ADAPTER TO USE

#3 Phillips Driver Bit



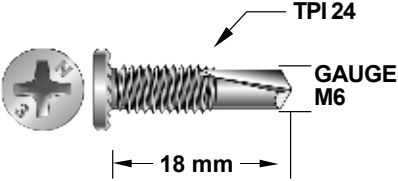



## FASTENER PROPERTIES

<b>Material</b>	Carbon Steel 1022	<b>Torsion</b>	21.08Nm	<b>Pull Out Values (Steel)</b>			
<b>Heat Treatment</b>	To AS3566	<b>Single Shear</b>	11.5kN	<b>0.75mm</b>	2.06kN	<b>1.15mm</b>	3.54kN
<b>Coating</b>	Class 3 Galvanised			<b>1mm</b>	2.92kN	<b>1.55mm</b>	5.22kN

# SDM62418C3

SELF DRILLING M6-24X18MM FRAMING SCREW - CLASS 3

**GALVANISED IN  
AUSTRALIA**

		<b>COATING</b>  <b>CLASS 3 TO AS3566 2002</b>	<b>DRILL RANGE</b>  <b>Drill Range 0.55-3mm</b>
<b>SELF DRILLING</b> For the use in steel frames and trusses #P3 Phillips Driver Bit		<b>BOX QTY</b>  <b>1000</b>	
<b>PART NO</b>	<b>SDM62418C3</b>		
			
		<b>QUICK ORDER CODE</b> <b>F428</b>	

Steel Base Material



## APPLICATION

Suitable for the use in the assembly of:

- Steel Wall Frames
- Steel Roof Trusses
- Steel Floor Trusses



## FEATURES AND BENEFITS

- Underhead serrations - serration lock underhead will provide resistance to loosening
- M6 thread - high shear and torsional strength values
- SD Point - Will drill without the requirements of pre-punched holes
- P3 drive - extra control with large driver bit ensures solid connection between steel



## INSTALLATION INSTRUCTIONS

- Use a #3 Phillips Driver Bit
- Use mains or cordless screw driver with a speed up to 2,500rpm
- Fit the #3 Phillips Driver Bit into the screw and place it in the fastening position
- Apply consistent firm pressure on the screw driver until the screw has fastened. **DO NOT OVERTIGHTEN.**
- Strip Torque - 7.44 Nm into 2 x 0.75mm pieces of Truecore steel

*\*Appropriate screw gun / drill with torque control and depth gauge adjustment should be used.*

## ADAPTER TO USE

#3 Phillips Driver Bit



## FASTENER PROPERTIES

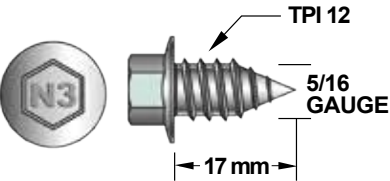



<b>Material</b>	Carbon Steel 1022	<b>Torsion</b>	21.57Nm	<b>Pull Out Values (Truecore)</b>
<b>Heat Treatment</b>	To AS3566	<b>Single Shear</b>	9.86kN	<b>0.75mm</b> 1.714kN
<b>Coating</b>	Class 3 Galvanised			



# NPHT5161217C3

NEEDLE POINT HEX TRUSS 5/16-12X17MM SCREW - CLASS 3

**GALVANISED IN AUSTRALIA**

		<b>COATING</b>  <b>CLASS 3 TO AS3566 2002</b>	<b>DRILL RANGE</b>   <b>Pre Punched Holes</b>
<b>NEEDLE POINT</b> For the use in steel trusses with pre-punched holes Hex Socket 5/16"		<b>BOX QTY</b>  <b>1000</b>	
<b>PART NO</b>	<b>NPHT5161217C3</b>		
		<b>QUICK ORDER CODE</b> <b>F079</b>	

Steel Base Material



## APPLICATION

Suitable for use in the assembly of:

- Steel Roof Trusses
- Steel Floor Trusses
- This product requires pre-punched holes



## FEATURES AND BENEFITS

- 5/16 hex drive - easy to drive in the screw, and the most common head size used for general steel-to-steel applications
- Heavy 5/16 gauge - ensures high shear strength
- Needle point - a fast way to align screw with pre-punched holes



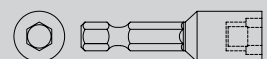
## INSTALLATION INSTRUCTIONS

- Use a 5/16 hex socket bit
- Use mains, air or cordless screw driver with a speed up to 1,500rpm
- Fit the socket bit around the screw head and align needle point with pre-punched holes
- Recommended punch hole size: 6.5mm
- Apply consistent firm pressure on the screw driver until the screw has fastened. **DO NOT OVERTIGHTEN.**
- Clamping Torque - 3.2Nm into 2 x 075mm pieces of Truecore steel
- Strip Torque - 29.72Nm into 2 x 0.75Nm pieces of Truecore steel

\*Appropriate screw gun / drill with torque control and depth gauge adjustment should be used.

## ADAPTER TO USE

Hex Socket 5/16"



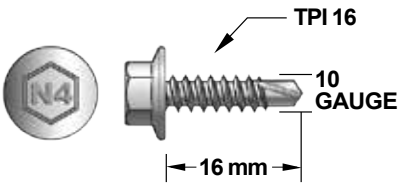



## FASTENER PROPERTIES

<b>Material</b>	Carbon Steel 1022	<b>Torsion</b>	57.86Nm	<b>Pull Out Values (Steel)</b>			
<b>Heat Treatment</b>	To AS3566	<b>Single Shear</b>	14.16kN	<b>0.75mm</b>	2.54kN	<b>1.15mm</b>	4.5kN
<b>Coating</b>	Class 3 Galvanised			<b>1mm</b>	3.88kN	<b>1.55mm</b>	7.38kN

# SDH101616C4

SELF DRILLING HEX 10-16X16MM SCREW - CLASS 4

**GALVANISED IN  
AUSTRALIA**

	<b>COATING</b>  <b>CLASS 4 TO AS3566 2002</b>	<b>DRILL RANGE</b>  <b>Drill Range 0.75-3.5mm</b>
<b>SELF DRILLING</b> For fixing to Metal up to 3.5mm Hex Socket 5/16"	<b>BOX QTY</b>  <b>1000</b>	
<b>PART NO</b> <b>SDH101616C4</b>		
		<b>QUICK ORDER CODE</b> <b>F180</b>

Steel Base Material



## APPLICATION

Suitable for use in:

- Steel-to-Steel Framing
- Wall Cladding to Steel Purlins
- Metal-to-Metal applications such as signs and fencing.



## FEATURES AND BENEFITS

- 5/16 hex drive - easy to drive in the screw, and the most common head size used for general steel-to-steel applications
- SD drill point - can drill fast and efficiently into 3.5mm of steel with no need for a pre-drilled hole
- Coating - Class 4 Galvanised coating



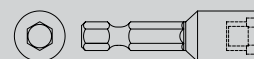
## INSTALLATION INSTRUCTIONS

- Use a 5/16 hex socket bit
- Use mains, air or cordless screw driver with a speed of up to 3,000rpm
- Fit the socket bit around the screw head and place screws in the fastening position
- Apply consistent firm pressure on the screw driver until the screw has fastened. **DO NOT OVERTIGHTEN.**

\*Appropriate screw gun / drill with torque control and depth gauge adjustment should be used.

## ADAPTER TO USE

Hex Socket 5/16"



## FASTENER PROPERTIES

<b>Material</b>	Carbon Steel 1022	<b>Torsion</b>	9.9Nm	<b>Pull Out Values (G450 Grade Steel)</b>	
<b>Heat Treatment</b>	To AS3566	<b>Single Shear</b>	6.7kN	<b>1.5mm</b>	3.614kN
<b>Coating</b>	Class 4 Galvanised				



# SDH121420C4

SELF DRILLING HEX 12-14X20MM SCREW - CLASS 4

**GALVANISED IN AUSTRALIA**

		<b>COATING</b> <b>CLASS 4 TO AS3566 2002</b>	<b>DRILL RANGE</b> <b>Drill Range 1-4.5mm</b>
<b>SELF DRILLING</b> For fixing to Metal up to 4.5mm Hex Socket 5/16"		<b>BOX QTY</b> <b>1000</b>	
<b>PART NO</b>	<b>SDH121420C4</b>		
		<b>QUICK ORDER CODE</b> <b>F190</b>	

Steel Base Material

## APPLICATION

Suitable for use in:

- Steel Wall Framing
- Steel Trusses
- Cladding and general fixing of metal-to-metal.

## FEATURES AND BENEFITS

- 5/16 hex drive - easy to drive in the screw, and the most common head size for steel to steel applications
- SD drill point - can drill fast and efficiently into up to 4.5mm of steel with no need for a pre-drilled hole
- Coating - Class 4 Galvanised coating

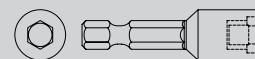
## INSTALLATION INSTRUCTIONS

- Use a 5/16 Hex Socket Bit
- Use mains, air or cordless screw driver with a speed of up to 2,500rpm
- Fit the socket bit around the screw head and place the screws in the fastening position
- Apply consistent firm pressure on the screw driver until the screw has fastened. **DO NOT OVERTIGHTEN.**

\*Appropriate screw gun / drill with torque control and depth gauge adjustment should be used.

### ADAPTER TO USE

Hex Socket 5/16"



## FASTENER PROPERTIES

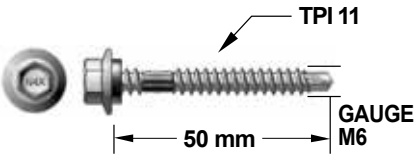



<b>Material</b>	Carbon Steel 1022	<b>Torsion</b>	14.02Nm	<b>Pull Out Values (G450 Grade Steel)</b>
<b>Heat Treatment</b>	To AS3566	<b>Single Shear</b>	9.67kN	<b>1.5mm</b> 4.42kN
<b>Coating</b>	Class 4 Galvanised			



# SDHM61150C4N

SELF DRILLING HEX M6-11X50MM ROOFING SCREW - CLASS 4

COATED AND  
PAINTED IN  
AUSTRALIA

	<b>COATING</b>  CLASS 4 TO AS3566 2002	<b>DRILL RANGE</b>   Drill Range 0.55-1.9mm
<b>SELF DRILLING</b> For fixing to Timber and Metal up to 1.9mm Hex Socket 5/16"	<b>BOX QTY</b>  <b>1000</b>	
<b>PART NO</b> SDHM61150C4N		
 	<b>QUICK ORDER CODE</b> <b>F304</b>	

Steel and Timber Base Material



## APPLICATION

Suitable for use in:

- Crest fixing roof sheets to either light gauge steel top hats or timber battens.
- Can also be used in steel purlins up to 1.9mm in thickness
- Class 4 Fasteners are suitable in Category 3 and 4 environments as described in ISO 9223-2012.
- Class 5 available on request.



## FEATURES AND BENEFITS

- 5/16 hex drive - easy to drive in the screw, and the most common head size used for Roofing and Cladding applications
- Zip fast drill point - allows for the screws to be driven effectively into light-gauge steel materials up to 1.9mm and timber battens, whilst maintaining a high pull-out resistance
- Coated and painted in Australia to meet AS3566 requirements.
- All Colorbond colours available.
- Water tight seal - screws are sealed with a genuine DEKS® washer

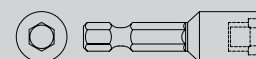


## INSTALLATION INSTRUCTIONS

- Use a 5/16 Hex Socket Bit
- Use a mains or cordless screw driver with a speed of up to 2,500rpm  
(These are guides - installer tooling and base materials should be assessed)
- Fit the socket bit around the screw head and place the screws in the fastening position
- Apply consistent firm pressure on the screw driver until the screw has fastened. **DO NOT OVERTIGHTEN.**

### ADAPTER TO USE

Hex Socket 5/16"



\*Appropriate screw gun / drill with torque control and depth gauge adjustment should be used.



## FASTENER PROPERTIES

<b>Material</b>	Carbon Steel 1022	<b>Torsion</b>	15.81Nm
<b>Heat Treatment</b>	To AS3566	<b>Mechanical Properties</b>	Single Shear 9.67kN
<b>Coating</b>	Class 4 Galvanised		



# CORROSION WARRANTY CHART

ENVIRONMENTAL CONDITIONS	CLASS 3	CLASS 4	CLASS 5
<b>VERY SEVERE MARINE (ISO 9223 CATEGORY 5)</b> Up to 400m from the ocean, but outside the ocean spray zone.	NOT RECOMMENDED	NOT RECOMMENDED	10 YEARS
<b>SEVERE MARINE (ISO 9223 CATEGORY 4)</b> Between 400m and 1km from the ocean or within 150m from a salt water inlet or creek.	NOT RECOMMENDED	12 YEARS	25 YEARS
<b>MILD &amp; MODERATE MARINE (ISO 9223 CATEGORY 3)</b> Between 1km and 50km from the ocean, or from 150m to 1km from a salt water inlet or creek.	7 YEARS	20 YEARS	30 YEARS
<b>SEVERE INDUSTRIAL (ISO 9223 CATEGORY 4)</b> Within 2km of an industrial plant, sewerage treatment or airport.	NOT RECOMMENDED	15 YEARS	25 YEARS
<b>INDUSTRIAL (ISO 9223 CATEGORY 3)</b> Between 2km and 10km from an industrial plant, sewerage treatment or airport.	15 YEARS	25 YEARS	35 YEARS
<b>LIGHT INDUSTRIAL URBAN (ISO 9223 CATEGORY 2)</b> All other regions not defined above.	20 YEARS	30 YEARS	40 YEARS

Determination of the environmental conditions and category is complex and influenced by a wide range of environmental factors. In some instances, corrosion zones can extend out further to what is stated above. The above table is an indication of the warranty period based on the corrosivity of your locations and is to be used as a guide only.



# NESSCO FASTENERS WEBSITE

Our whole Nessco Fasteners product range is on our website now.



For more information visit

**[www.nesscofasteners.com.au](http://www.nesscofasteners.com.au)**



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