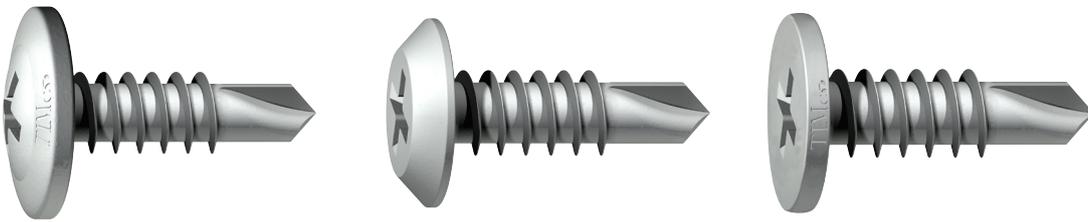


TECHNICAL INFORMATION FOR

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# METAL FRAMING SCREWS

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TECHNICAL DATA SHEET



## LOW PROFILE PAN HEAD



### FEATURES

- For fixing steel to steel applications, particularly metal framing systems.
- A light duty metal to metal screw with a reduced head depth to give a flush finish.
- Large head Ø for increased clamping.
- Coarse 60° self tapping thread for extreme grip & excellent pull out.
- Silver Ruspert plated to withstand over 500 hours salt spray test.
- Phillips No2 recess for a positive drive.
- Driver bit included.
- Full batch traceability.

### PRODUCT RANGE

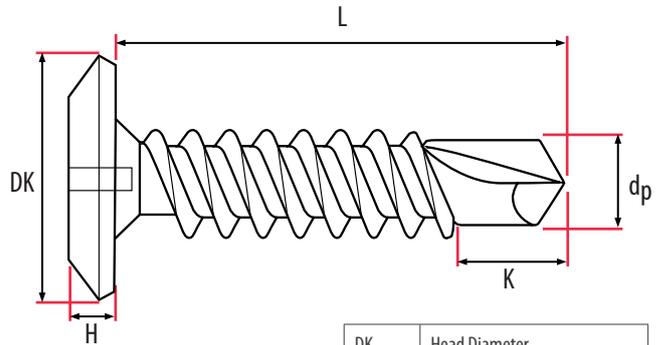
**EXTERIOR**

Product Code	Size Ø x Length (mm) $d_p \times L$	Driver Bit Size	Max Drill Thickness (mm)	Box Qty	Carton Qty (Box)	Carton Qty
LPP16	4.8 x 16	No.2	4	500	15	7,500
16LP	4.8 x 16	No.2	4	200	75	15,000

### DIMENSIONAL DATA

Product Code	$d_p$ (mm)	L (mm)	DK (mm)	H (mm)	K (mm)
LPP16	4	16	9.5	2	5
16LP	4	16	9.5	2	5

\*all figures stated are approximate and for reference only.



DK	Head Diameter
L	Length
H	Head Depth
$d_p$	Drill Point Diameter
K	Drill Point



## LOW PROFILE WAFER HEAD



• A light duty metal to metal screw with a large flat surface under the head, making it ideal for fixing thinner sheet material when a flush finish is required.



### FEATURES

- Large head Ø for increased clamping.
- Coarse 60° self tapping thread for extreme grip & excellent pull out.
- Silver Ruspert plated to withstand over 500 hours salt spray test.
- Phillips No2 recess for a positive drive.
- Driver bit included.
- Full batch traceability.

### PRODUCT RANGE

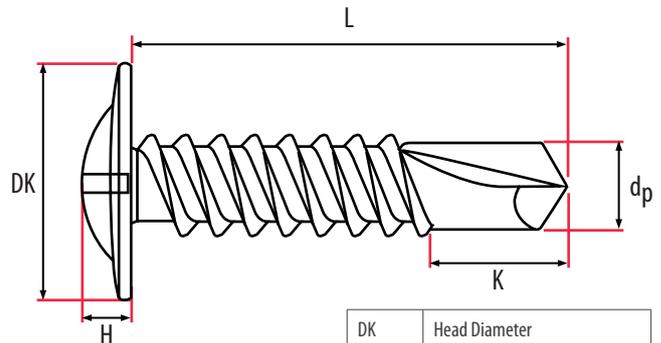
**EXTERIOR**

Product Code	Size Ø x Length (mm) d <sub>p</sub> x L	Driver Bit Size	Max Drill Thickness (mm)	Box Qty	Carton Qty (Box)	Carton Qty
22LPW	4.8 x 22	No.2	4	200	35	7,000

### DIMENSIONAL DATA

Product Code	d <sub>p</sub> (mm)	L (mm)	DK (mm)	H (mm)	K (mm)
22LPW	4	22	11.5	2.5	5

\*all figures stated are approximate and for reference only.



DK	Head Diameter
L	Length
H	Head Depth
d <sub>p</sub>	Drill Point Diameter
K	Drill Point



## LOW PROFILE PANCAKE HEAD



• A medium duty metal to metal screw with a large flat surface under the head, making it ideal for fixing thinner sheet material when a flush finish is required.

## FEATURES

- Large head Ø for increased clamping.
- Coarse 60° self tapping thread for extreme grip & excellent pull out.
- Silver Ruspert plated to withstand over 500 hours salt spray test.
- Phillips No2 recess for a positive drive.
- Driver bit included.
- Full batch traceability.



## PRODUCT RANGE

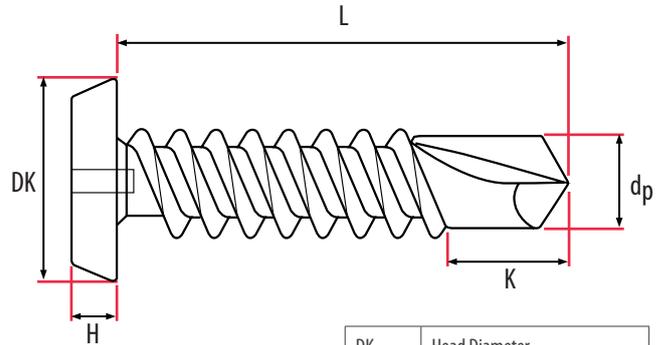
EXTERIOR

Product Code	Size Ø x Length (mm) $d_p \times L$	Driver Bit Size	Max Drill Thickness (mm)	Box Qty	Carton Qty (Box)	Carton Qty
FP19	5.5 x 19	No.2	5	500	16	8,000
19FP	5.5 x 19	No.2	5	200	35	7,000
FP26	5.5 x 26	No.2	5	500	16	8,000

## DIMENSIONAL DATA

Product Code	$d_p$ (mm)	L (mm)	DK (mm)	H (mm)	K (mm)
FP19	4.5	19	10	2	6
19FP	4.5	19	10	2	6
FP26	4.5	26	10	2	6

\*all figures stated are approximate and for reference only.



DK	Head Diameter
L	Length
H	Head Depth
$d_p$	Drill Point Diameter
K	Drill Point



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Company Number: 1551970  
VAT no. GB 428725238

02/11/2015

T I Midwood & Company Limited  
Green Lane  
Wardle  
Nantwich  
Cheshire  
CW5 6BJ

Dear Sirs

**RE: Use of TIM Co fixings with Metsec Framing**

I can confirm that the following fixings are acceptable for use with Metsec Framing:

TIM Co Phillips Low Profile Pancake Head Self Drilling Screws 5.5mm x 19mm (FP19)  
TIM Co Phillips Low Profile Pancake Head Self Drilling Screws 5.5mm x 26mm (FP26)  
TIM Co Phillips Hex Head Self Drilling Screws 5.5mm x 25mm

We can confirm that the tested shear and tensile values are within the requirements of Metsec and therefore these fixings can be used with Metsec SFS Framing.

In addition we have reviewed the range of lengths of these fixings and can confirm that where needed these types of screws at longer lengths may also be used with Metsec SFS Framing.

Yours sincerely

John Couldwell  
**Technical Manager - SFS**

**voestalpine**

ONE STEP AHEAD.



# ROTech

## LABORATORIES LIMITED

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 TEL: 0121 505 4050 FAX: 0121 505 1115  
 www.rotechlabs.co.uk info@rotechlabs.co.uk

### Test Report

Our Ref: RKP Number 73110 Issue 1 Date 06.10.2008 Page 1 of 2

A/C No: M114

Tested For:- T I Midwood & Company Limited  
 Green Lane  
 Wardle  
 Nantwich  
 Cheshire  
 CW5 6BJ

**SHEAR / PULL OUT TESTS ON SELF DRILLING SCREWS**

**RELEVANT INFORMATION**

Description(s): Item 1: TIM Co Phillips Low Profile Pancake Head Self Drilling Screws 5.5mm x 19mm  
 Item 2: TIM Co Hex Head Self Drilling Screws 5.5mm x 25mm  
 Purchase Order No: 3939  
 Date Received: 07/08/2008

**RESULTS**

**Single Shear Test**

<u>Ref</u>	<u>Single Shear Load (kN)</u>
Pancake Head Sample 1	7.04
Pancake Head Sample 2	6.84
Pancake Head Sample 3	7.52
Hex Head Sample 1	8.84
Hex Head Sample 2	7.48
Hex Head Sample 3	8.70

REPORT COMPILED BY R K PRATT REPORT APPROVED BY R K PRATT  
 Technologist Supervisor



Test Report

Number 73110 Issue 1 Page 2 of 2

**Pull Out Test**

The various fixing were tested using Metsec sheet metal samples

<u>Ref</u>	<u>Maximum Attained Pull Out Load (kN)</u>
Metsec Material Gauge 1.55mm Ref: P1 GM2749 1 0001	
Pancake Head Sample 4	3.810
Pancake Head Sample 5	3.715
Pancake Head Sample 6	3.710
Hex Head Sample 4	3.445
Hex Head Sample 5	3.860
Hex Head Sample 6	3.630

<u>Ref</u>	<u>Maximum Attained Pull Out Load (kN)</u>
Metsec Material Gauge 1.55mm Ref: No Given	
Pancake Head Sample 7	4.040
Pancake Head Sample 8	3.695
Pancake Head Sample 9	3.745
Hex Head Sample 7	3.710
Hex Head Sample 8	3.820
Hex Head Sample 9	3.760

<u>Ref</u>	<u>Maximum Attained Pull Out Load (kN)</u>
Metsec Material Gauge 1.25mm Ref: No Given	
Pancake Head Sample 10	3.155
Pancake Head Sample 11	3.075
Pancake Head Sample 12	2.660
Hex Head Sample 10	2.420
Hex Head Sample 11	2.590
Hex Head Sample 12	3.040