



# TECHNICAL MANUAL SCREW FASTENING INTERIOR FINISHING



January 2019



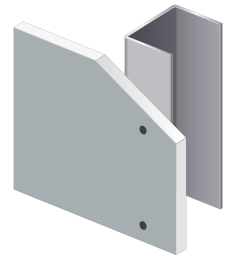
## TABLE OF CONTENTS

<b>1. Overview</b>	<b>4</b>
• Drywall boards to metal substructure	4
• Drywall boards to wood substructure	4
• Exterior sheathing boards to metal substructure	4
• Drywall boards to drywall boards	5
• Cement boards to wood or metal substructure	5
• Interior framing screws	5
• Exterior framing screws	6
• Wood boards to metal substructure	7
• Wood boards to wood substructure	7
• Eye lag screws to metal or wood substructure	7
<b>2. Features of interior finishing screws</b>	<b>8</b>
• Head shapes	8
• Insert bit type	8
• Drill Point / Drilling Capacity	9
• Self Drilling Screw capacity by point and diameter	9
• Length Selection	9
• Thread selection	10
• Types of screw points	13
• Hilti drywall screw nomenclature	13
<b>3. Environment categories</b>	<b>11</b>
<b>4. Screw pages</b>	<b>13</b>
<b>5. Overview of tools and accessories</b>	<b>52</b>

# 1. OVERVIEW

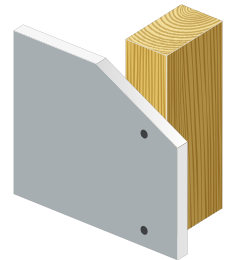
## Drywall boards to metal substructure

Description	Screw	Page
PBH S		13
PBH SD		14
PBH SD ZINC		15
PBH SD CRC		16
PBH S HI/LO		17



## Drywall boards to wood substructure

Description	Screw	Page
PBH S CRS		18
PBH S CRS KCOTE		19
PBH S HI/LO		17



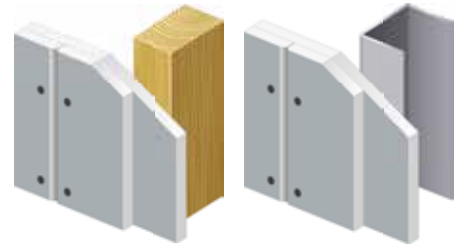
## Exterior sheathing boards to metal substructure

Description	Screw	Page
PBH SD CRC		17
PBH SD ZINC		16
PWH S CMT BD		23
PWH SD CMT BD		24





### Drywall boards to drywall boards

Description	Screw	Page
PBH S LAM		21









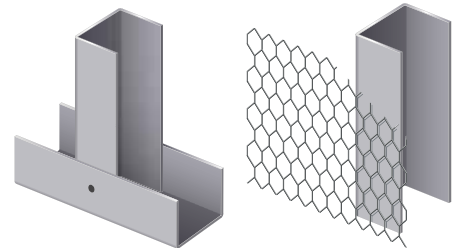
### Cement boards to wood or metal substructure

Description	Screw	Page
PWH S CMT BD		22
PWH SD CMT BD		23
















### Interior framing screws

Description	Screw	Page
PTH S LATH		24
PTH S LATH ZINC		25
PTH SD LATH ZINC		26
PPH S		27
PPH SD FRMR		28
PPH SD FRMR ZINC		29










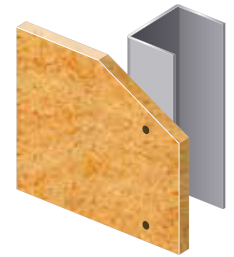
## Exterior framing screws

Description	Screw	Page
S-MD PPH #2		30
S-DD PTH 3		31
S-MD PPH #3		32
S-DD PPTH 3		33
S-DD PPCH 3		34
S-DD TPCH 3 Z		35
S-MD HWH #2		36
S-MD 10 HWH #3		37
S-MD 12 HWH #3		38
S-MD 12 HWH #4		39
S-MD 12 HWH #5		40
S-MD HHWH STITCH/PILOT		41
S-MD 1/4-14 HHWH #3		42




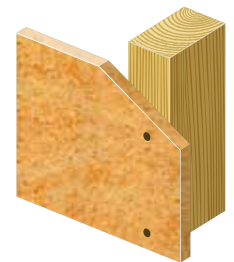
## Wood boards to metal substructure

Description	Screw	Page
S-WD PFH #3		43
S-WD PWH #3		44
S-WW PWH #3		45
S-WW PWH #4		46
SFH SD		47
SFH SD ZINC		48
SFH S		49






## Wood boards to wood substructure

Description	Screw	Page
PBH S CRS Ceramic		20

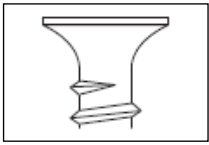


## Eye lag screws to wood or metal substructure

Description	Screw	Page
EL WS		50
EL S		50
EL SD		50

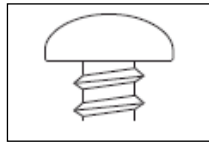
## 2. FEATURES OF INTERIOR FINISHING SCREWS

### Head shapes



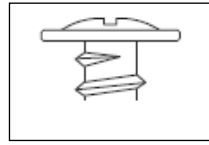
**PBH**

Phillips Bugle Head: used primarily for fastening drywall, plywood or insulation because it countersinks well



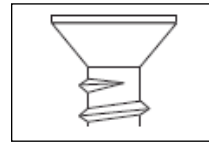
**PPH**

Phillips Pan Head: conventional head for general applications that provides low profile fastening



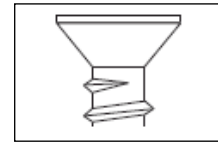
**PTH**

Phillips Truss Head: Large head and low profile used primarily for framing and attaching wire lath



**PFH**

Phillips Flat Head: used primarily in wood to countersink and seat flush to minimize splintering the wood



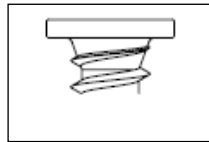
**SFH**

Square Flat Head: used primarily in wood to countersink and seat flush to minimize splintering the wood



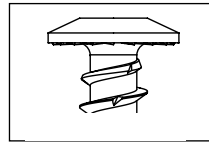
**PPCH**

Phillips Pancake Head: conventional head for general applications that provides low and flat profile



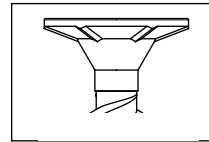
**TPCH**

Torx Pancake Head: conventional head for high torque applications that provides low and flat profile



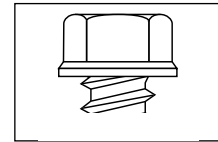
**PFTH**

Phillips Flat Truss Head: lowest profile available for attaching metal to metal



**PWH**

Phillips Wafer Head: Large head provides the bearing surface necessary to seat flush in soft materials

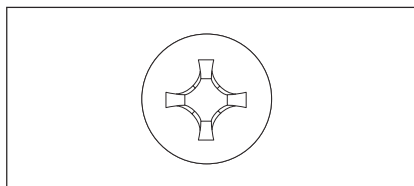


**HWH/HHWH**

Hex Washer Head/ High Hex Washer Head Washer heads provides a bearing surface for the driving sockets

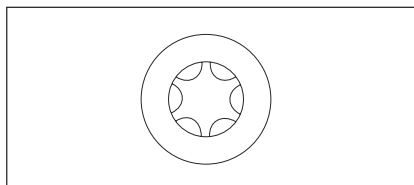
### Insert bit type

Standard drive recesses for most drywall screws



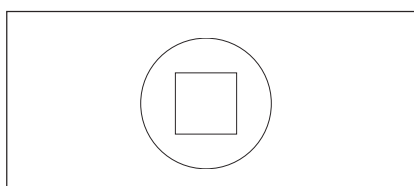
**Phillips cross recess (PH)**

Head drive recess for tapping screws and wood screws



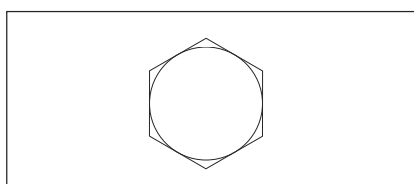
**Torx (TX)**

Square head for selected screws for fastening wood boards



**Square (SQ)**

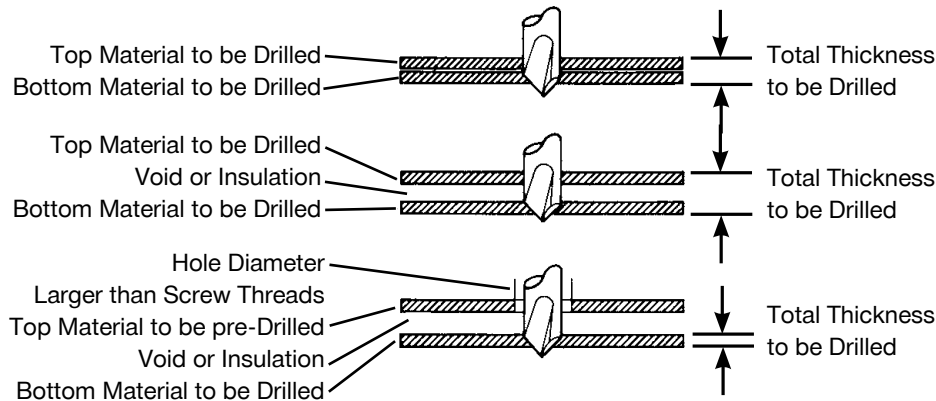
Square head for selected exterior framing screws



**Hexagon head (HEX)**



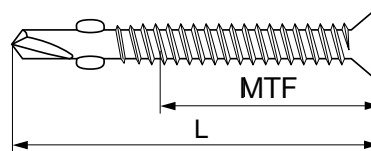
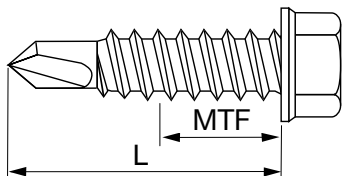
### Drill Point / Drilling Capacity



### Self Drilling Screw capacity by point and diameter

Thickness of Material to be Drilled (inches)	#2 Point		#3 Point			#4 Point			#5 Point	
	.500									
.400										
.300										
.200				.175	.210	.220	.232	.250	.250	
.100	.100	.110	.140							
0.035										
0	#6, #8	#10	#8	#10	#12	1/4	#12 Winged Reamer	*#12	1/4	#12

### Length Selection



#### Length of the screw (L)

Depending on the screwhead, there are two different ways to measure the overall length of a screw.

For HWH/HHWH, SHWH, PPCH, PFTH, PTH and PPH screws, the overall length is measured from the bottom of the collar under the head to the point of the screw.

For PWH, PFH, PFHUC and PBH screws, the overall length is measured from the top of the head to the point of the screw.

#### Maximum Thickness Fastened (MTF)

The maximum thickness fastened for all screws is the length of the threads reduced by the first three threads (embedding in the base material). See drawings above.

The maximum thickness fastened (MTF) describes the maximum thickness of the attachments to be secured to the base material.

## Thread selection

### Recommended Installation RPM

Diameter	RPM
#6	4000-5000
#8	2500
#10	
#12	1800
1/4"	

### Common Socket and Bit Sizes

Screw Size	Magnetic Nut Setter Size	Phillips Bit Size
#6	-	2
#8	1/4"	2
#10	5/16"	3
#12	5/16"	3
1/4"	3/8"	3

### Decimal Equivalents for Fractions of an Inch

Fraction	Decimal Equivalent
1/64	0.015
1/32	0.031
3/64	0.046
1/16	0.062
5/64	0.078
3/32	0.093
7/64	0.109
1/8	0.125
9/64	0.140
5/32	0.156
11/64	0.171
3/16	0.187
13/64	0.203
7/32	0.218
15/64	0.234
1/4	0.250

### Screw Diameter Equivalents

Screw Diameter	Decimal Equivalent
#6	0.138
#8	0.164
#10	0.190
#12	0.216
#14	0.242
1/4"	0.250

### 3. ENVIRONMENT CATEGORIES

Applications can be classified in various environment categories, taking the following main factors into account:

#### Indoor applications



##### Dry indoor environments

(heated or air-conditioned areas) without condensation, e.g. office buildings, schools



##### Indoor environments with temporary condensation

(unheated areas without pollutants), e.g. storage sheds

#### Outdoor applications



##### Outdoor, rural or urban environment with low pollution

Large distance (> 6 miles [10 km]) from the sea



##### Outdoor, rural or urban environment with moderate concentration of pollutants and/or salt from sea water

Distance from the sea 0.6-6 miles [1-10 km]



##### Coastal areas

Distance from the sea < 0.6 miles [1 km]



##### Outdoor, areas with heavy industrial pollution

Close to plants < 0.6 miles [1 km] (e.g. petrochemical, coal industry)



##### Close proximity to roadways treated with de-icing salts

Distance from roadways < 33 feet [10 meters]

#### Special applications



##### Special applications

Areas with special corrosive conditions, e.g. road tunnels with de-icing salt, indoor swimming pools, special applications in the chemical industry (exceptions possible).



### Important notes

The ultimate decision on the required corrosion protection must be made by the customer. Hilti accepts no responsibility regarding the suitability of a product for a specific application, even if informed of the application conditions.

The tables are based on an average service life for typical applications. For metallic coatings, e.g. zinc layer systems, the end of lifetime is the point at which red rust is visible over a large fraction of the product and widespread structural deterioration can occur – the initial onset of rust may occur sooner. National or international codes, standards or regulations, customer and/or industry specific guidelines must be independently considered and evaluated.

These guidelines apply to atmospheric corrosion only. Special types of corrosion, such as crevice corrosion or hydrogen assisted cracking must be independently evaluated.

The tables published in this brochure describe only a general guideline for commonly accepted applications in typical atmospheric environments. Suitability for a specific application can be significantly affected by localized conditions, including but not limited to:

- Elevated temperatures and humidity
- High levels of airborne pollutants
- Direct contact with corrosive products, such as found in some types of chemically-treated wood, waste water, concrete additives, cleaning agents, etc.
- Direct contact to fresh / young concrete (less than 28 days old)
- Electrical current
- Contact with dissimilar metals
- Confined areas, e.g. crevices
- Physical damage or wear
- Extreme corrosion due to combined effects of different influencing factors
- Enrichment of pollutants on the product

## ENVIRONMENT CATEGORIES

The following tables provides a general guideline for the most common screw fastening applications. The appropriate corrosion protection for each fastening material is shown based on the typical atmospheric environments (see notes).

	Screws	PBH S PPH S	PBH SD ZINC PTH S ZINC	PBH S CRS KCOTE PBH S CRS CERAMIC	PBH SD CRC PWH SD CMT
	Coating/Material	Phosphated carbon steel	Galvanic zinc plated carbon steel	Kwik-coat or ceramic coated carbon steel	Electro- or kaitex-coated carbon steel
Environmental conditions	Fastened part				
<b>Dry indoor</b>	Steel (zinc-coated, painted), aluminium, stainless steel	■	■	■	■
<b>Indoor with temporary condensation</b>	Steel (zinc-coated, painted), aluminium, stainless steel	—	—	■	■
<b>Outdoor with low pollution</b>	Steel (zinc-coated, painted), aluminium, stainless steel	—	—	—	□ <sup>2)</sup>
<b>Outdoor with moderate concentration of pollutants</b> 1-10km	Steel (zinc-coated, painted), aluminium, stainless steel	—	—	—	□ <sup>2)</sup>
<b>Coastal areas</b> 0-1km	Steel (zinc-coated, painted), aluminium, stainless steel	—	—	—	—
<b>Outdoor, areas with heavy industrial pollution</b>	Steel (zinc-coated, painted), aluminium, stainless steel	—	—	—	—
<b>Close proximity to roads</b>	Steel (zinc-coated, painted), aluminium, stainless steel	—	—	—	—
<b>Special applications</b>	Steel (zinc-coated, painted), aluminium, stainless steel	—	—	—	—

- = expected lifetime of fasteners made from this material is typically satisfactory in the specified environment based on the typically expected lifetime of a building. The assumed service life in ETA approvals for screw fasteners is 25 years.
- <sup>2)</sup> = a decrease in the expected lifetime of non-stainless fasteners in these atmospheres must be taken into account (≤ 25 years). Higher expected lifetime needs a specific assessment.
- = fasteners made from this material are not generally suitable in the specified environment. Exceptions need a specific assessment.

### Corrosion resistance overview

Coating	Example of screws	Typical ATM B117 Salt spray rating (in hours)	Typical conditions of use
Phosphated	PBH S	24	- Interior applications without any particular influence of moisture
Zinc plated	PBH SD ZINC	24 - 48	
Kwik cote	PBH S CRS KCOTE	500	- Interior applications which are in damp environments
Ceramic	PBH S CRS CERAMIC	500	
Electro coating	PBH SD CRC	1000	- Interior applications which are in damp environments - Exterior applications in only slightly corrosive atmosphere
Kaitex duplex coating	PWH SD CMT	1000	


## 4. SCREW PAGES

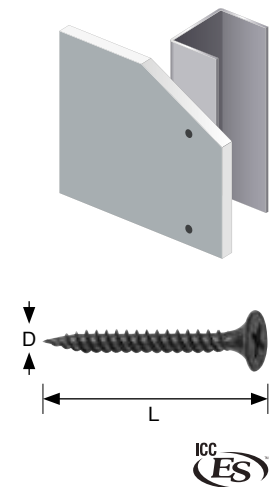
### PBH S

#### Application:

Drywall boards to metal substructure 25 ga to 20 ga

#### Technical data:

Screw design	Stitch point - Fine thread - Bugle head
Insert bit type	PH2
Material	Carbon steel
Coating	Phosphated
Approval	ICC-ES_ESR-3891 / ASTM C1002*
Environmental conditions	



\* Meets or exceeds ASTM C1002 performance requirements

#### Single screws

Description	Length L [in]	Diameter D [ga]	Drilling capacity [ga]	Drilling capacity [in]	Max. Thickness Fastened (MTF)	Head diameter [in]	Pkg. quantity	Item no.
6x1 PBH S	1	6	25 - 20	0.023 - 0.036	5/8" (0.625")	0.32	10000	84297
6x1-1/8 PBH S	1-1/8	6	25 - 20	0.023 - 0.036	3/4" (0.750")	0.32	10000	84329
6x1-1/4 PBH S	1-1/4	6	25 - 20	0.023 - 0.036	7/8" (0.875")	0.32	8000	84291
6x1-5/8 PBH S	1-5/8	6	25 - 20	0.023 - 0.036	1-1/4" (1.250")	0.32	5000	84323
6x2 PBH S	2	6	25 - 20	0.023 - 0.036	1-5/8" (1.625")	0.32	3500	84310
6x2-1/4 PBH S	2-1/4	6	25 - 20	0.023 - 0.036	1-7/8" (1.875")	0.32	3000	84311
7x2-1/2 PBH S	2-1/2	7	25 - 20	0.023 - 0.036	2-1/8" (2.125")	0.32	2500	84319
8x3 PBH S	3	8	25 - 20	0.023 - 0.036	2-5/8" (2.625")	0.33	2000	84328

#### Collated screws for SD-M 1 and SD-M 2

Description	Length L [in]	Diameter D [ga]	Drilling capacity [ga]	Drilling capacity [in]	Head diameter [in]	Pkg. quantity	SD-M 1	SD-M 2	Item no.
6x1 PBH S M1	1	6	25 - 20	0.023 - 0.036	0.32	1000	■	■	2086227
6x1-1/8 PBH S M1	1-1/8	6	25 - 20	0.023 - 0.036	0.32	1000	■	■	2070966
6x1-1/4 PBH S M1	1-1/4	6	25 - 20	0.023 - 0.036	0.32	1000	■	■	2070967
6x1-5/8" PBH S M1	1-5/8	6	25 - 20	0.023 - 0.036	0.32	1000		■	2131083
6x2 PBH S M1	2	6	25 - 20	0.023 - 0.036	0.32	1000		■	2131084

# PBH SD

## Application:

Drywall boards to metal substructure from 20 ga to 12 ga

Hard boards to metal substructure from 20 ga 12 ga

### Technical data:

Screw design Drill point - Fine thread - Bugle head

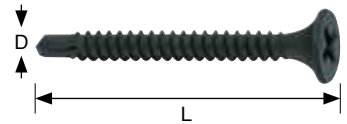
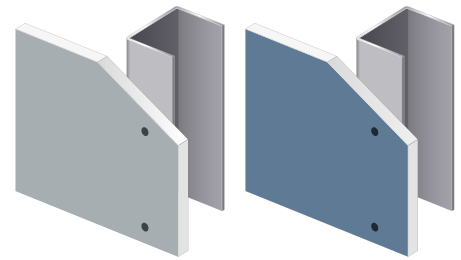
Insert bit type PH2

Material Carbon steel

Coating Phosphated

Approval ICC-ES\_ESR-3891 / ASTM C954\*

Environmental conditions



\* Meets or exceeds ASTM C954 performance requirements

## Single screws

Description	Length L [in]	Diameter D [ga]	Drilling capacity [ga]	Drilling capacity [in]	Max. Thickness Fastened (MTF)	Head diameter [in]	Pkg. quantity	Item no.
6x1 PBH SD	1	6	20 - 12	0.033 - 0.088	5/8" (0.625")	0.32	10000	86211
6x1-1/8 PBH SD	1-1/8	6	20 - 12	0.033 - 0.088	3/4" (0.750")	0.32	10000	86213
6x1-1/4 PBH SD	1-1/4	6	20 - 12	0.033 - 0.088	7/8" (0.875")	0.32	8000	84290
6x1-5/8 PBH SD	1-5/8	6	20 - 12	0.033 - 0.088	1-1/4" (1.250")	0.32	5000	86216
6x1-7/8 PBH SD	1-7/8	6	20 - 12	0.033 - 0.088	1-1/2" (1.500")	0.32	4000	86218
8x2-3/8 PBH SD	2-3/8	8	20 - 12	0.033 - 0.112	2" (2.000")	0.32	2500	86220
8x2-5/8 PBH SD	2-5/8	8	20 - 12	0.033 - 0.112	2-1/4" (2.250")	0.32	1600	84293
8x3 PBH SD	3	8	20 - 12	0.033 - 0.112	2-5/8" (2.625")	0.33	1400	86223

## Collated screws for SD-M 1 and SD-M 2

Description	Length L [in]	Diameter D [ga]	Drilling capacity [ga]	Drilling capacity [in]	Head diameter [in]	Pkg. quantity	SD-M 1	SD-M 2	Item no.
6x1-1/8 PBH SD M1	1-1/8	6	20 - 12	0.033 - 0.088	0.32	1000	■	■	2070962
6x1-1/4 PBH SD M1	1-1/4	6	20 - 12	0.033 - 0.088	0.32	1000	■	■	2070963
6x1-5/8 PBH SD M1	1-5/8	6	20 - 12	0.033 - 0.088	0.32	1000		■	2132338
6x1-7/8 PBH SD M1	1-7/8	6	20 - 12	0.033 - 0.088	0.32	1000		■	2132339
6x2 PBH SD M1	2	6	20 - 12	0.033 - 0.088	0.32	1000		■	2133710


# PBH SD ZINC

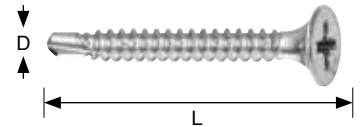
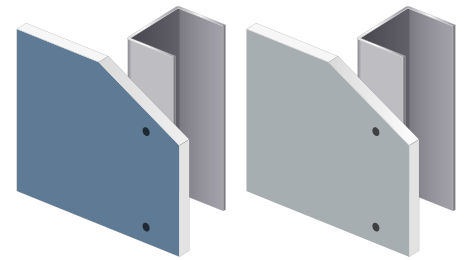
## Application:

Drywall boards to metal substructure from 20 ga to 12 ga

Hard boards to metal substructure from 20 ga 12 ga

## Technical data:

Screw design	Drill point - Fine thread - Bugle head
Insert bit type	PH2
Material	Carbon steel
Coating	Zinc plated
Approval	ICC-ES-ESR-3891 / ASTM C954*
Environmental conditions	



\* Meets or exceeds ASTM C954 performance requirements

## Single screws

Description	Length L [in]	Diameter D [ga]	Drilling capacity [ga]	Drilling capacity [in]	Max. Thickness Fastened (MTF)	Head diameter [in]	Pkg. quantity	Item no.
6x1 PBH SD ZINC	1	6	20 -12	0.033 - 0.088	5/8" (0.625")	0.32	10000	86212
6x1-1/8 PBH SD ZINC	1-1/8	6	20 -12	0.033 - 0.088	3/4" (0.750")	0.32	10000	86214
6x1-1/4 PBH SD ZINC	1-1/4	6	20 -12	0.033 - 0.088	7/8" (0.875")	0.32	8000	86215
6x1-5/8 PBH SD ZINC	1-5/8	6	20 -12	0.033 - 0.088	1-1/4" (1.250")	0.32	5000	86217
6x1-7/8 PBH SD ZINC	1-7/8	6	20 -12	0.033 - 0.088	1-1/2" (1.500")	0.32	4000	86219
8x2-3/8 PBH SD ZINC	2-3/8	8	20 -12	0.033 - 0.112	2" (2.000")	0.32	2500	86221
8x2-5/8 PBH SD ZINC	2-5/8	8	20 -12	0.033 - 0.112	2-1/4" (2.250")	0.32	1600	86222
8x3 PBH SD ZINC	3	8	20 -12	0.033 - 0.112	2-5/8" (2.625")	0.33	1400	86224

## Collated screws for SD-M 1 and SD-M 2

Description	Length L [in]	Diameter D [ga]	Drilling capacity [ga]	Drilling capacity [in]	Head diameter [in]	Pkg. quantity	SD-M 1	SD-M 2	Item no.
6x1-1/8 PBH SD Z M1	1-1/8	6	20 -12	0.033 - 0.088	0.32	10000	■	■	2070964
6x1-1/4 PBH SD Z M1	1-1/4	6	20 -12	0.033 - 0.088	0.32	8000	■	■	2070965
6x1-5/8 PBH SD Z M1	1-5/8	6	20 -12	0.033 - 0.088	0.32	5000		■	2133711
6x1-7/8 PBH SD Z M1	1-7/8	6	20 -12	0.033 - 0.088	0.32	4000		■	2133712
6x2 PBH SD Z M1	2	6	20 -12	0.033 - 0.088	0.32	4000		■	2131085

# PBH SD CRC

### Application:

Drywall boards to metal substructure from 20 to 14 ga

Hard boards to metal substructure from 20 ga to 14 ga

Exterior sheathing boards to metal substructure from 20 ga to 14 ga

### Technical data:

Screw design Drill point - Fine thread - Bugle head

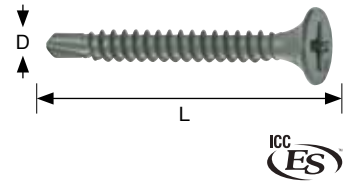
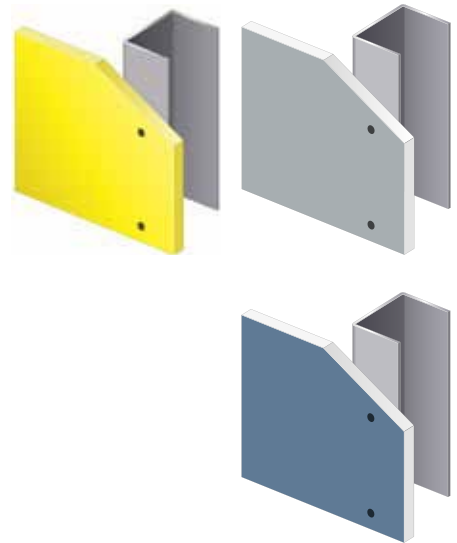
Insert bit type PH2

Material Carbon steel

Coating Electro-Coating

Approval ICC-ES-ESR-3891 / ASTM C954\*

Environmental conditions



\* Meets or exceeds ASTM C954 performance requirements

### Single screws

Description	Length L [in]	Diameter D [ga]	Drilling capacity [ga]	Drilling capacity [in]	Max. Thickness Fastened (MTF)	Head diameter [in]	Pkg. quantity	Item no.
6x1-1/4 PBH SD CRC	1-1/4	6	20 -14	0.033 - 0.088	7/8" (0.875")	0.32	8000	411517
6x1-7/8 PBH SD CRC	1-7/8	6	20 -14	0.033 - 0.088	1-1/2" (1.500")	0.32	4000	413489

### Collated screws for SD-M 1 and SD-M 2

Description	Length L [in]	Diameter D [ga]	Drilling capacity [ga]	Drilling capacity [in]	Head diameter [in]	Pkg. quantity	SD-M 1	SD-M 2	Item no.
6x1-1/4 PBH SD CRC M1	1-1/4	6	20 -14	0.033 - 0.088	0.32	8000	■	■	2071040
6x1-7/8 PBH SD CRC M1	1-7/8	6	20 -14	0.033 - 0.088	0.32	4000		■	2133713




# PBH S HI/LO

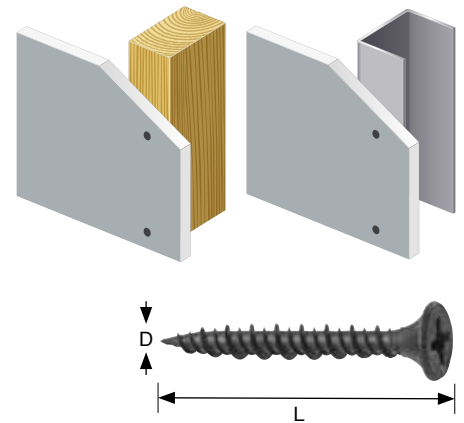
## Application:

Drywall boards to metal substructure from 25 ga to 20 ga

Drywall boards to wood substructure

## Technical data:

Screw design	Stich point - Hi/Lo thread - Bugle head
Insert bit type	PH2
Material	Carbon steel
Coating	Phosphated
Approval	ASTM 1002*
Environmental conditions	



\* Meets or exceeds ASTM C954 performance requirements

## Single screws

Description	Length L [in]	Diameter D [ga]	Drilling capacity [ga]	Drilling capacity [in]	Head diameter [in]	Pkg. quantity	Item no.
6x1-1/8 PBH S HI/LO	1-1/8	6	25 - 20	0.023 - 0.033	0.32	10000	86198
6x1-1/4 PBH S HI/LO	1-1/4	6	25 - 20	0.023 - 0.033	0.32	8000	86199
6x1-5/8 PBH S HI/LO	1-5/8	6	25 - 20	0.023 - 0.033	0.32	5000	86200
6x2 PBH S HI/LO	2	6	25 - 20	0.023 - 0.033	0.32	3500	86201
8x3 PBH S HI/LO	3	8	25 - 20	0.023 - 0.033	0.32	2000	86204

## Collated screws for SD-M 1 and SD-M 2

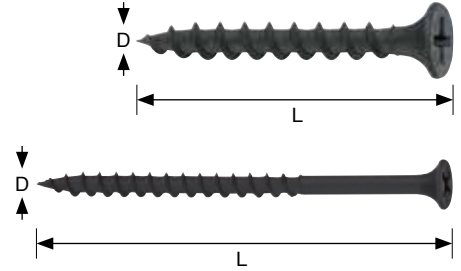
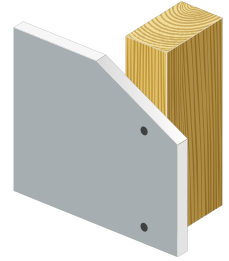
Description	Length L [in]	Diameter D [ga]	Drilling capacity [ga]	Drilling capacity [in]	Head diameter [in]	Pkg. quantity	SD-M 1	SD-M 2	Item no.
6x1-1/8 PBH S HI/LO M1	1-1/8	6	25 - 20	0.023 - 0.033	0.32	10000	■	■	2133716
6x1-1/4 PBH S HI/LO M1	1-1/4	6	25 - 20	0.023 - 0.033	0.32	8000	■	■	2133717
6x1-5/8 PBH S HI/LO M1	1-5/8	6	25 - 20	0.023 - 0.033	0.32	5000		■	2133718
6x2 PBH S HI/LO M1	2	6	25 - 20	0.023 - 0.033	0.32	4000		■	2133719

# PBH S CRS

**Application:**  
Drywall boards to wood substructure

**Technical data:**

Screw design $\leq 2''$	Stitch point - Coarse thread - Bugle head
Screw design $\geq 2-1/4''$	Stitch point - Shank - Coarse thread - Bugle head
Insert bit type	PH2
Material	Carbon steel
Coating	Phosphated
Approval	-
Environmental conditions	



**Single screws**

Description	Length L [in]	Diameter D [ga]	Head diameter [in]	Pkg. quantity	Item no.
6x1 PBH S CRS	1	6	0.32	10000	84325
6x1-1/8 PBH S CRS	1-1/8	6	0.32	10000	84316
6x1-1/4 PBH S CRS	1-1/4	6	0.32	8000	84294
6x1-5/8 PBH S CRS	1-5/8	6	0.32	5000	84307
7x2 PBH S CRS	2	7	0.32	3500	84320
7x2-1/4 PBH S CRS	2-1/4	7	0.32	3000	84295
7x2-1/2 PBH S CRS	2-1/2	7	0.32	2500	84322
8x3 PBH S CRS	3	8	0.32	2000	84317

**Collated screws for SD-M 1 and SD-M 2**



Description	Length L [in]	Diameter D [ga]	Head diameter [in]	Pkg. quantity	SD-M 1	SD-M 2	Item no.
6x1-1/8 PBH S CRS M1	1-1/8	6	0.32	10000	■	■	2070968
6x1-1/4 PBH S CRS M1	1-1/4	6	0.32	8000	■	■	2070969
6x1-5/8 PBH S CRS M1	1-5/8	6	0.32	5000		■	2133714
6x2 PBH S CRS M1	2	6	0.32	1000		■	2131086

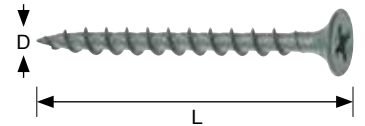
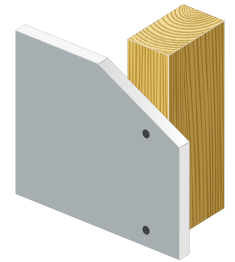
# PBH S CRS KCOTE

## Application:

Drywall boards to wood substructure

### Technical data:

Screw design	Stitch point - Coarse thread - Bugle head
Insert bit type	PH2
Material	Carbon steel
Coating	Kwik cote
Approval	-
Environmental conditions	 



### Collated screws for SD-M 1 and SD-M 2



Description	Length L [in]	Diameter D [ga]	Head diameter [in]	Pkg. quantity	SD-M 1	SD-M 2	Item no.
6x2 PBH S CRS KCOTE M1	2	6	0.32	1000		■	2133715

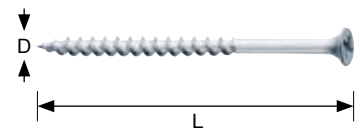
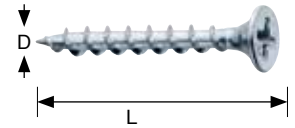
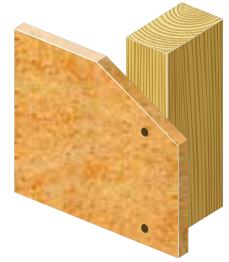
# PBH S CRS CERAMIC

## Application:

Wood and chemically treated wood (such as ACQ) to wood substructure

### Technical data:

Screw design $\leq 2''$	Stitch point - Coarse thread - Bugle head
Screw design $\geq 2-1/4''$	Stitch point - Shank - Coarse thread - Bugle head
Insert bit type	PH2
Material	Carbon steel
Coating	Ceramic coated
Approval	-
Environmental conditions	 



## Single screws


Description	Length L [in]	Diameter D [ga]	Head diameter [in]	Pkg. quantity	Item no.
6x1-1/4" PBH S CRS	1-1/4"	6	0.32	8000	10196
6x2" PBH S CRS	2"	6	0.32	3500	10215
8x2-1/2" PBH S CRS	2-1/2"	7	0.32	2500	10222
8x3" PBH S CRS	3"	8	0.32	2000	10224

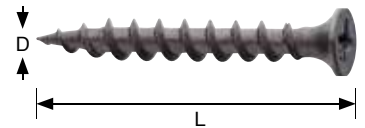
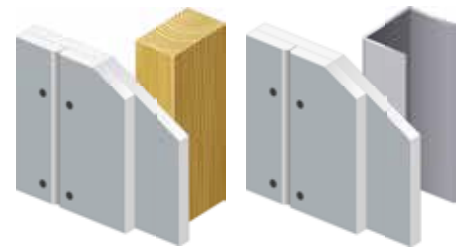
# PBH S LAM

**Application:**

Drywall boards to drywall boards

**Technical data:**

Screw design	Stitch point - Coarse thread - Bugle head
Insert bit type	PH2
Material	Carbon steel
Coating	Phosphated
Approval	-
Environmental conditions	



**Single screws**

Description	Length L [in]	Diameter D [ga]	Head diameter [in]	Pkg. quantity	Item no.
10x1-1/2 PBH S LAM	1-1/2	10	0.32	5000	86205

# PWH S CMT BD

**Application:**

Cement boards to metal substructure from 25 ga to 20 ga

Cement boards to wood substructure

Exterior sheathing boards to metal substructure from 25 ga to 20 ga

**Technical data:**

Screw design	Drill point - Hi/Lo thread - Wafer head
Insert bit type	PH2
Material	Carbon steel
Coating	Kaitex coating
Approval	ASTM C1002*
Environmental conditions	



\* Meets or exceeds ASTM C1002 performance requirements

**Single screws**

Description	Length L [in]	Diameter D [ga]	Drilling capacity [ga]	Drilling capacity [in]	Head diameter [in]	Pkg. quantity	Item no.
8x1-1/4 PWH S CMT BD	1-1/4	8	25 - 20	0.023 - 0.036	0.42	5000	372757
9x1-5/8 PHL S CMT BD	1-5/8	9	25 - 20	0.023 - 0.036	0.42	4000	3024068
9x2-1/4 PW S Hi-Lo CMT BD	2-1/4	9	25 - 20	0.023 - 0.036	0.42	2000	3024069

## PWH SD CMT BD

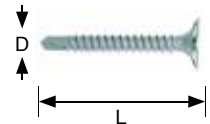
### Application:

Cement boards to metal substructure from 20 ga to 12 ga

Exterior sheathing boards to metal substructure from 20 ga to 12 ga

### Technical data:

Screw design	Drill point - Hi/Lo thread - Wafer head
Insert bit type	PH2
Material	Carbon steel
Coating	Kaitex coating
Approval	ICC-ES-ESR-3891 / ASTM C954*
Environmental conditions	



\* Meets or exceeds ASTM C954 performance requirements

### Single screws

Description	Length L [in]	Diameter D [ga]	Drilling capacity [ga]	Drilling capacity [in]	Max. Thickness Fastened (MTF)	Head diameter [in]	Pkg. quantity	Item no.
8x1-1/4 PWH SD CMT BD	1-1/4	8	20 -12	0.033 - 0.112	7/8" (0.875")	0.42	5000	372759
8x1-5/8 PWH SD CMT BD	1-5/8	8	20 -12	0.033 - 0.112	1-1/4" (1.250")	0.42	4000	372760

# PTH S LATH

**Application:**

Fastening wire lath to 25 - 20 ga studs

Fastening stud to track from 25 ga to 20 ga

**Technical data:**

Screw design Stitch point - Fine thread - Truss head

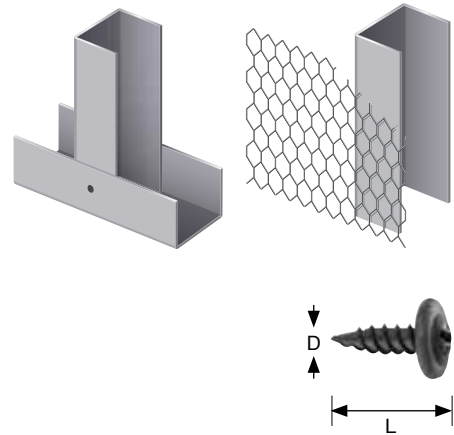
Insert bit type PH2

Material Carbon steel

Coating Phosphated

Approval -

Environmental conditions



**Single screws**

Description	Length L [in]	Diameter D [ga]	Drilling capacity [ga]	Drilling capacity [in]	Max. Thickness Fastened (MTF)	Head diameter [in]	Pkg. quantity	Item no.
8x1/2 PTH S	1/2	8	25 - 20	0.023 - 0.033	1/8" (0.125")	0.43	10000	<b>86208</b>




# PTH S LATH ZINC

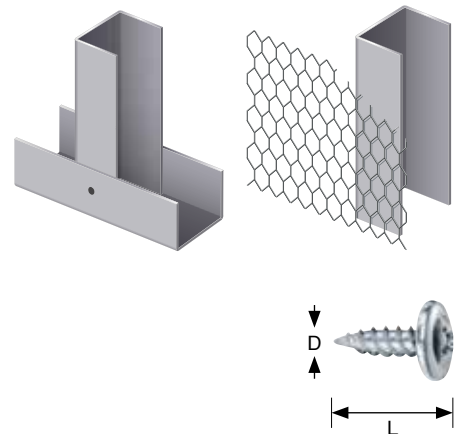
## Application:

Fastening wire lath to 25 - 20 ga studs

Fastening stud to track from 25 ga to 20 ga

## Technical data:

Screw design	Stitch point - Fine thread - Wafer head
Insert bit type	PH2
Material	Carbon steel
Coating	Zinc plated
Standard	-
Environmental conditions	



## Single screws

Description	Length L [in]	Diameter D [ga]	Drilling capacity [ga]	Drilling capacity [in]	Max. Thickness Fastened (MTF)	Head diameter [in]	Pkg. quantity	Item no.
8x1/2 PTH S LATH ZINC	1/2	8	25 - 20	0.023 - 0.033	1/8" (0.125")	0.43	10000	10262
8x3/4 PTH S LATH ZINC	3/4	8	25 - 20	0.023 - 0.033	3/8" (0.375")	0.43	10000	10263
8x1 PTH S LATH ZINC	1	8	25 - 20	0.023 - 0.033	5/8" (0.625")	0.43	8000	10264
8x1-1/4 PTH S LATH ZINC	1-1/4	8	25 - 20	0.023 - 0.033	7/8" (0.875")	0.43	6000	10265

# PTH SD LATH ZINC

## Application:

Fastening wire lath to 20 - 12 ga studs

Fastening stud to track from 20 ga to 12 ga

### Technical data:

Screw design Drill point - Fine thread - Truss head

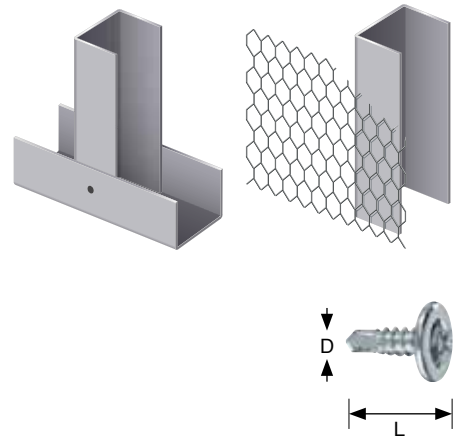
Insert bit type PH2

Material Carbon steel

Coating Zinc plated

Approval -

Environmental conditions



## Single screws

Description	Length L [in]	Diameter D [ga]	Drilling capacity [ga]	Drilling capacity [in]	Max. Thickness Fastened (MTF)	Head diameter [in]	Pkg. quantity	Item no.
8x1/2 PTH SD LATH ZINC	1/2	8	20 - 12	0.036 - 0.104	1/8" (0.125")	0.43	10000	86228
8x3/4 PTH SD LATH ZINC	3/4	8	20 - 12	0.036 - 0.104	3/8" (0.375")	0.43	6000	87145
8x1 PTH SD LATH ZINC	1	8	20 - 12	0.036 - 0.104	5/8" (0.625")	0.43	10000	86231
8x1-1/4 PTH SD LATH ZINC	1-1/4	8	20 - 12	0.036 - 0.104	7/8" (0.875")	0.43	8000	86232
8x1-5/8 PTH SD LATH ZINC	1-5/8	8	20 - 12	0.036 - 0.104	1-1/4" (1.250")	0.43	4000	2132247
8x1-7/8 PTH SD LATH ZINC	1-7/8	8	20 - 12	0.036 - 0.104	1-1/2" (1.500")	0.43	3000	2132248


# PPH S

## Application:

Fastening stud to track from 25 ga to 20 ga



## Technical data:

Screw design	Stitch point - Fine thread - Pan head
Insert bit type	PH2
Material	Carbon steel
Coating	Phosphated
Approval	-
Environmental conditions	

## Single screws

Description	Length L [in]	Diameter D [ga]	Drilling capacity [ga]	Drilling capacity [in]	Max. Thickness Fastened (MTF)	Head diameter [in]	Pkg. quantity	Item no.
6x7/16 PPH S	7/16	6	25 - 20	0.023 - 0.036	1/16" (0.0625")	0.30	10000	86207
7x7/16 PPH S	7/16	7	25 - 20	0.023 - 0.036	1/16" (0.0625")	0.30	10000	86206

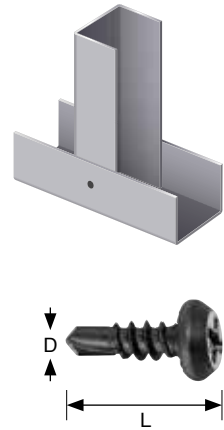
# PPH SD FRMR

**Application:**

Fastening stud to track from 20 ga to 12 ga

**Technical data:**

Screw design	Drill point - Fine thread - Pan head
Insert bit type	PH2
Material	Carbon steel
Coating	Phosphated
Approval	-
Environmental conditions	



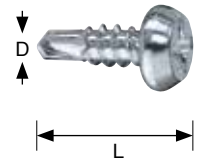
**Single screws**

Description	Length L [in]	Diameter D [ga]	Drilling capacity [ga]	Drilling capacity [in]	Max. Thickness Fastened (MTF)	Head diameter [in]	Pkg. quantity	Item no.
7x7/16 PPH SD FRMR	7/16	7	20 -12	0.036 - 0.104	1/16" (0.0625")	0.30	10000	86225

# PPH SD FRMR ZINC

## Application:

Fastening stud to track from 20 ga to 12 ga



## Technical data:

Screw design	Drill point - Fine thread - Pan head
Insert bit type	PH2
Material	Carbon steel
Coating	Zinc plated
Approval	-
Environmental conditions	

## Single screws

Description	Length L [in]	Diameter D [ga]	Drilling capacity [ga]	Drilling capacity [in]	Max. Thickness Fastened (MTF)	Head diameter [in]	Pkg. quantity	Item no.
7x7/16 PPH SD FRMR ZINC	7/16	7	20 -12	0.036 - 0.104	1/16" (0.0625")	0.30	10000	86226

## S-MD PPH #2

### Application:

Light gauge steel to steel applications

HVAC duct fabrication and installation

Accessories (electrical boxes, clips, etc.) to steel

### Technical data:

Screw design	Drill point - Fine thread - Pan head
Insert bit type	PH2
Material	Carbon steel
Coating	Zinc plated
Approval	ICC-ES-ESR-2196 / ASTM C1513*
Environmental conditions	



\* Meets or exceeds ASTM C1513 performance requirements

### Single screws

Description	Length L [in]	Diameter D [ga]	Drilling capacity [ga]	Drilling capacity [in]	Max. Thickness Fastened (MTF)	Drill point	Head diameter [in]	Pkg. quantity	Item no.
<b>S-MD 8-18x1/2 PPH2</b>	1/2	8	20 - 12	0.035 - 0.100	1/8" (0.125")	2	0.31	10000	<b>311441</b>

## S-DD PTH 3

### Application:

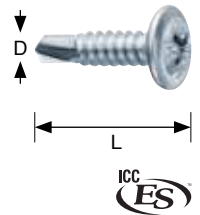
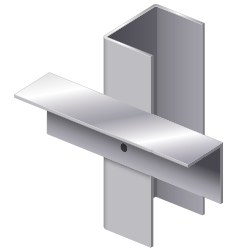
Medium gauge steel to steel applications

Fastening liner panel/light gauge to frame


Fastening profile steel sheets to light- and medium-gauge steel framing

Fastening resilient bar to interior steel profile

Steel framing, truss or joist fabrication



### Technical data:

Screw design	Drill point - Fine thread - Truss
Insert bit type	head PH2
Material	Carbon steel
Coating	Zinc plated
Standard	ICC-ES-ESR-2196 / ASTM C1513*
Environmental conditions	

\* Meets or exceeds ASTM C1513 performance requirements

### Single screws

Description	Length L [in]	Diameter D [ga]	Drilling capacity [ga]	Drilling capacity [in]	Max. Thickness Fastened (MTF)	Drill point	Head diameter [in]	Pkg. quantity	Item no.
<b>S-DD 10-18x3/4" PTH 3</b>	3/4	10	12 - 7	0.110 - 0.175	3/8" (0.375")	3	0.43	5000	<b>2099055</b>

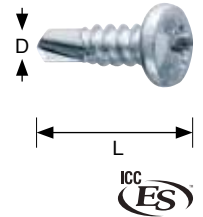
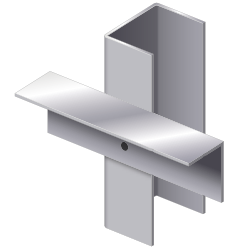
## S-MD PPH #3

### Application:

- Medium gauge steel to steel applications
- Fastening liner panel/light gauge to frame
- Fastening profile steel sheets to light- and medium-gauge steel framing
- Fastening resilient bar to interior steel profile
- Steel framing, truss or joist fabrication

### Technical data:

Screw design	Drill point - Fine thread - Pan head
Insert bit type	PH2
Material	Carbon steel
Coating	Zinc plated
Approval	ICC-ES-ESR-2196 / ASTM C1513*
Environmental conditions	



\* Meets or exceeds ASTM C1513 performance requirements

### Single screws

Description	Length L [in]	Diameter D [ga]	Drilling capacity [ga]	Drilling capacity [in]	Max. Thickness Fastened (MTF)	Drill point	Head diameter [in]	Pkg. quantity	Item no.
<b>S-MD 10-16x5/8 PPH3</b>	5/8	10	12 - 7	0.110 - 0.175	5/16" (0.313")	3	0.36	7500	<b>2099042</b>
<b>S-MD 10-16x3/4 PPH3</b>	3/4	10	12 - 7	0.110 - 0.175	3/8" (0.375")	3	0.36	6500	<b>2099043</b>



## S-DD PFTH 3

### Application:

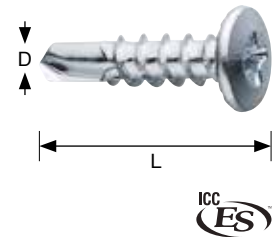
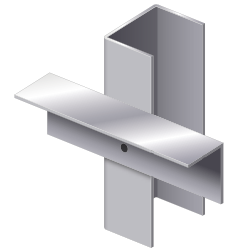
Medium gauge steel to steel applications

Fastening liner panel/light gauge to frame


Fastening profile steel sheets to light- and medium-gauge steel framing

Fastening resilient bar to interior steel profile

Steel framing, truss or joist fabrication



### Technical data:

Screw design	Drill point - Fine thread - Flat truss head
Insert bit type	PH2
Material	Carbon steel
Coating	Zinc plated
Approval	ICC-ES-ESR-2196 / ASTM C1513*
Environmental conditions	

\* Meets or exceeds ASTM C1513 performance requirements

### Single screws

Description	Length L [in]	Diameter D [ga]	Drilling capacity [ga]	Drilling capacity [in]	Max. Thickness Fastened (MTF)	Drill point	Head diameter [in]	Pkg. quantity	Item no.
S-DD10-12x3/4 PFTH3	3/4	10	12 - 7	0.110 - 0.175	3/8" (0.375")	3	0.36	7500	2099057

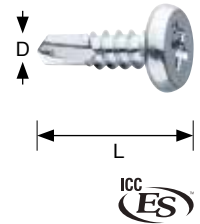
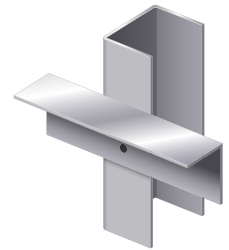
## S-DD PPCH 3

### Application:

Medium gauge steel to steel applications  
 Fastening liner panel/light gauge to frame  
 Fastening profile steel sheets to light- and medium-gauge steel framing  
 Fastening resilient bar to interior steel profile  
 Steel framing, truss or joist fabrication

### Technical data:

Screw design	Drill point - Fine thread - Pancake head
Insert bit type	PH2
Material	Carbon steel
Coating	Zinc plated
Approval	ICC-ES-ESR-2196 / ASTM C1513*
Environmental conditions	



\*Meets or exceeds ASTM C1513 performance requirements

### Single screws

Description	Length L [in]	Diameter D [ga]	Drilling capacity [ga]	Drilling capacity [in]	Max. Thickness Fastened (MTF)	Drill point	Head diameter [in]	Pkg. quantity	Item no.
S-DD10-16x5/8 PPCH3	5/8	10	12 - 7	0.110 - 0.175	5/16" (0.313")	3	0.41	7500	2099056

## S-DD TPCH #3 Z

### Application:

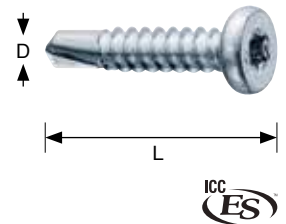
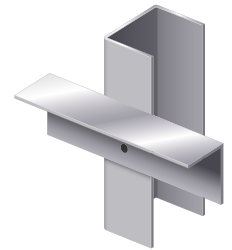
Medium gauge steel to steel applications

Fastening liner panel/light gauge to frame

Fastening profile steel sheets to light- and medium-gauge steel framing

Fastening resilient bar to interior steel profile

Steel framing, truss or joist fabrication



### Technical data:

Screw design	Drill point - Fine thread - Pancake head
Insert bit type	TX25
Material	Carbon steel
Coating	Zinc plated
Approval	ICC-ES-ESR-2196 / ASTM C1513*
Environmental conditions	

\*Meets or exceeds ASTM C1513 performance requirements

### Single screws

Description	Length L [in]	Diameter D [ga]	Drilling capacity [ga]	Drilling capacity [in]	Max. Thickness Fastened (MTF)	Drill point	Head diameter [in]	Pkg. quantity	Item no.
S-DD 12-14x1 TPCH3	1	12	12 - 5	0.110 - 0.210	1/2" (0.500")	3	0.41	5000	2098865

## S-MD HWH #2

### Application:

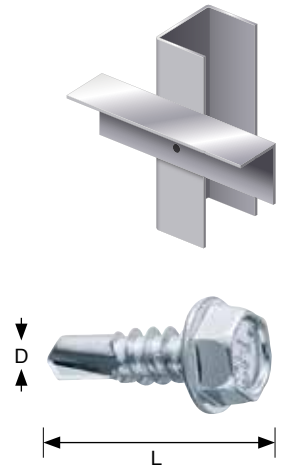
Light gauge steel to steel applications

HVAC duct fabrication and installation

Accessories (electrical boxes, clips, etc.) to steel

### Technical data:

Screw design	Drill point - coarse thread - hex head
Insert bit type	Hexagon 5/16", hexagon 1/4"
Material	Carbon steel
Coating	Zinc plated
Approval	ICC-ES-ESR-2196 / ASTM C1513*
Environmental conditions	



\*Meets or exceeds ASTM C1513 performance requirements



### Single screws

Description	Length L [in]	Diameter D [ga]	Drilling capacity [ga]	Drilling capacity [in]	Max. Thickness Fastened (MTF)	Insert bit type	Drill point	Head diameter [in]	Item no.
<b>S-MD 8-18x1/2 HWH2</b>	1/2	8	20 -12	0.035 - 0.100	1/8" (0.125")	Hex 1/4"	2	0.33	<b>311438</b>
<b>S-MD 8-18x3/4 HWH2</b>	3/4	8	20 -12	0.035 - 0.100	3/8" (0.375")	Hex 1/4"	2	0.33	<b>311439</b>
<b>S-MD 10-16x1/2 HWH2</b>	1/2	10	20 -12	0.035 - 0.110	3/16" (0.188")	Hex 5/16"	2	0.40	<b>311445</b>
<b>S-MD 10-16x3/4 HWH2</b>	3/4	10	20 -12	0.035 - 0.110	5/16" (0.313")	Hex 5/16"	2	0.40	<b>311446</b>
<b>S-MD 10-16x1 HWH2</b>	1	10	20 -12	0.035 - 0.110	1/2" (0.500")	Hex 5/16"	2	0.40	<b>311447</b>

## S-MD 10 HWH #3

### Application:

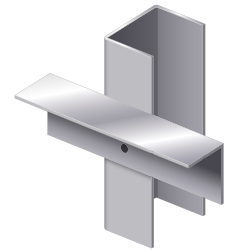
Medium gauge steel to steel applications

Fastening liner panel/light gauge to frame

Fastening profile steel sheets to light- and medium-gauge steel framing

Fastening resilient bar to interior steel profile

Steel framing, truss or joist fabrication



### Technical data:

Screw design	Drill point - coarse thread - hex head
Insert bit type	Hexagon 5/16"
Material	Carbon steel
Coating	Zinc plated
Approval	ICC-ES-ESR-2196 / ASTM C1513*
Environmental conditions	

\*Meets or exceeds ASTM C1513 performance requirements

### Single screws

Description	Length L [in]	Diameter D [ga]	Drilling capacity [ga]	Drilling capacity [in]	Max. Thickness Fastened (MTF)	Drill point	Head diameter [in]	Pkg. quantity	Item no.
<b>S-MD10-16x5/8 HWH3</b>	5/8	10	12 - 7	0.110 - 0.175	3/16" (0.187")	3	0.40	7500	<b>2098767</b>
<b>S-MD10-16x3/4 HWH3</b>	3/4	10	12 - 7	0.110 - 0.175	3/8" (0.375")	3	0.40	6500	<b>2098766</b>
S-MD10-16x3/4 HHWH3 (High head)	3/4	10	12 - 7	0.110 - 0.175	3/8" (0.375")	3	0.40	6500	<b>2098768</b>
<b>S-MD10-16x1 HWH3</b>	1	10	12 - 7	0.110 - 0.175	5/8" (0.625")	3	0.40	5000	<b>2098769</b>
<b>S-MD10-16x1-1/4 HWH3</b>	1-1/4	10	12 - 7	0.110 - 0.175	7/8" (0.875")	3	0.40	4000	<b>2099040</b>
<b>S-MD10-16x1-1/2 HWH3</b>	1-1/2	10	12 - 7	0.110 - 0.175	1-1/8" (1.125")	3	0.40	4000	<b>2099041</b>

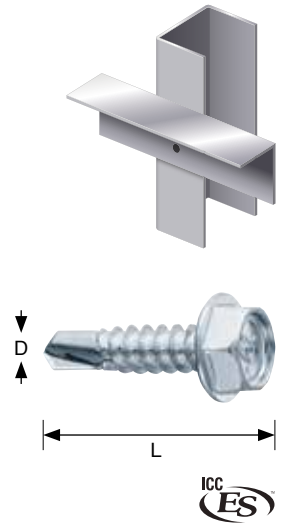
## S-MD 12 HWH #3

### Application:

- Medium gauge steel to steel applications
- Fastening liner panel/light gauge to frame
- Fastening profile steel sheets to light- and medium-gauge steel framing
- Fastening resilient bar to interior steel profile
- Steel framing, truss or joist fabrication

### Technical data:

Screw design	Drill point - coarse thread - hex head
Insert bit type	Hexagon 5/16"
Material	Carbon steel
Coating	Zinc plated
Approval	ICC-ES-ESR-2196 / ASTM C1513*
Environmental conditions	



\* Meets or exceeds ASTM C1513 performance requirements

### Single screws

Description	Length L [in]	Diameter D [ga]	Drilling capacity [ga]	Drilling capacity [in]	Max. Thickness Fastened (MTF)	Drill point	Head diameter [in]	Pkg. quantity	Item no.
S-MD12-14x3/4 HWH3	3/4	12	12 - 5	0.110 - 0.210	5/16" (0.313")	3	0.43	5000	2099044
S-MD12-14x1 HWH3	1	12	12 - 5	0.110 - 0.210	9/16" (0.562")	3	0.43	3000	2099045
S-MD12-14x1-1/2 HWH3	1-1/2	12	12 - 5	0.110 - 0.210	1-1/16" (1.062")	3	0.43	2500	2099046
S-MD12-14x2 HWH3	2	12	12 - 5	0.110 - 0.210	1-9/16" (1.562")	3	0.43	2000	2099047

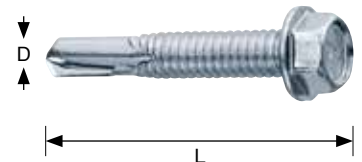
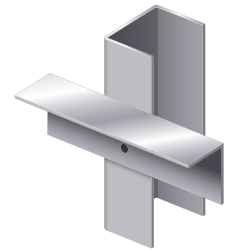
## S-MD 12 HWH #4

### Application:


Heavy gauge steel to steel applications

Fastening multiple layers of metal to steel

Fastening accessories (clips, etc.) to structural members



### Technical data:

Screw design	Drill point - coarse thread - hex head
Insert bit type	Hexagon 5/16"
Material	Carbon steel
Coating	Zinc plated
Approval	ICC-ES-ESR-2196 / ASTM C1513*
Environmental conditions	

\* Meets or exceeds ASTM C1513 performance requirements

### Single screws

Description	Length L [in]	Diameter D [ga]	Drilling capacity [ga]	Drilling capacity [in]	Max. Thickness Fastened (MTF)	Drill point	Head diameter [in]	Pkg. quantity	Item no.
S-MD12-24x7/8 HWH4	7/8	12	7 - 3	0.175 - 0.250	3/8" (0.375")	4	0.41	4500	2099052
S-MD12-24x1-1/4HWH4	1-1/4	12	7 - 3	0.175 - 0.250	5/8" (0.625")	4	0.42	3500	2099053

## S-MD 12 HWH #5

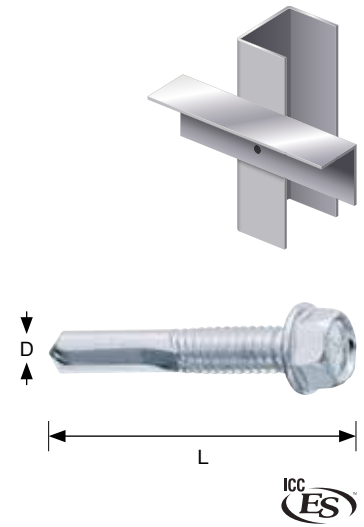
### Application:

Heavy gauge steel to steel applications  
 Fastening multiple layers of metal to steel  
 Fastening accessories (clips, etc.) to structural members

### Technical data:

Screw design	Drill point - coarse thread - hex head
Insert bit type	Hexagon 5/16"
Material	Carbon steel
Coating	Zinc plated
Approval	ICC-ES-ESR-2196 / ASTM C1513*
Environmental conditions	

\* Meets or exceeds ASTM C1513 performance requirements



### Single screws

Description	Length L [in]	Diameter D [ga]	Drilling capacity [ga]	Drilling capacity [in]	Max. Thickness Fastened (MTF)	Drill point	Head diameter [in]	Pkg. quantity	Item no.
S-MD12-24x1-1/4HWH5	1-1/4	12	-	0.250 - 0.500	7/16" (0.437")	5	0.41	3500	2099054

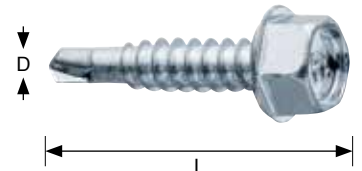
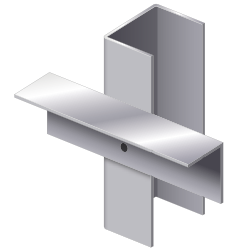


## S-MD HHWH STITCH/PILOT


### Application:

Self-drilling hex head screw (zinc-plated) for fastening sheet metal to steel substructures

Sidelap (unsupported metal sheets)



### Technical data:

Screw design	Drill point - coarse thread - hex head
Insert bit type	Hexagon 5/16"
Material	Carbon steel
Coating	Zinc plated
Approval	ICC-ES-ESR-2196 / ASTM C1513*
Environmental conditions	

\* Meets or exceeds ASTM C1513 performance requirements

### Single screws

Description	Length L [in]	Diameter D [ga]	Drilling capacity [ga]	Drilling capacity [in]	Max. Thickness Fastened (MTF)	Drill point	Head diameter [in]	Pkg. quantity	Item no.
S-MD 10-16x7/8 HHWH Pilot point	7/8	10	22 -10	0.028 - 0.120	3/16" (0.188")	1	0.41	6000	312011
S-MD 12-14x1 HHWH STITCH	1	12	22 -10	0.028 - 0.120	3/8" (0.375")	2	0.42	3000	312010

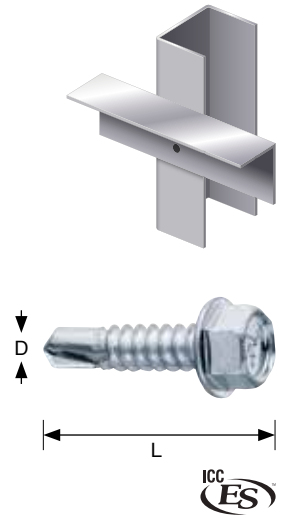
## S-MD 1/4-14 HHWH #3

**Application:**  
Medium gauge steel to steel applications

**Technical data:**

Screw design	Drill point - coarse thread - hex head
Insert bit type	Hexagon 3/8"
Material	Carbon steel
Coating	Zinc plated
Approval	ICC-ES-ESR-2196 / ASTM C1513*
Environmental conditions	

\* Meets or exceeds ASTM C1513 performance requirements



### Single screws

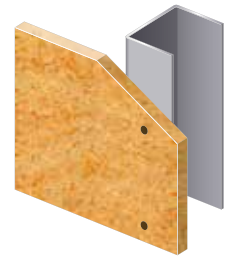
Description	Length L [in]	Diameter D [ga]	Drilling capacity [ga]	Drilling capacity [in]	Max. Thickness Fastened (MTF)	Drill point	Head diameter [in]	Pkg. quantity	Item no.
<b>S-MD 1/4-14x3/4 HHWH3</b>	3/4	1/4	12 - 4	0.110 - 0.220	5/16" (0.313")	3	0.50	4000	<b>2099048</b>
<b>S-MD 1/4-14x1 HHWH3</b>	1	1/4	12 - 4	0.110 - 0.220	9/16" (0.562")	3	0.50	3000	<b>2099049</b>
<b>S-MD 1/4-14x1-1/2 HHWH3</b>	1-1/2	1/4	12 - 4	0.110 - 0.220	1-1/16" (1.062")	3	0.50	2000	<b>2099050</b>
<b>S-MD 1/4-14x2 HHWH3</b>	2	1/4	12 - 4	0.110 - 0.220	1-9/16" (1.562")	3	0.50	1000	<b>2099051</b>

## S-WD PFH #3

### Application:

Fastening untreated plywood to steel framing

Fastening metal-backed gypsum sheets



### Technical data:

Screw design	Drill point with wings - Fine thread - Countersunk head
Insert bit type	PH2
Material	Carbon steel
Coating	Phosphated
Approval	-
Environmental conditions	

### Single screws

Description	Length L [in]	Diameter D [ga]	Drilling capacity [ga]	Drilling capacity [in]	Max. Thickness Fastened (MTF)	Drill point	Head diameter [in]	Pkg. quantity	Item no.
S-WD 8-18x1-5/16 PFH3	1-5/16	8	18 - 9	0.050 - 0.140	1/2" (0.500")	3	0.33	6000	311629
S-WD 8-18x1-15/16 PFH3	1-15/16	8	18 - 9	0.050 - 0.140	3/4" (0.750")	3	0.33	4000	311630

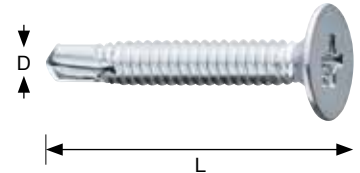
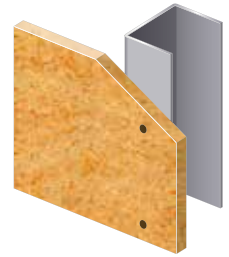
## S-WD PWH #3

### Application:

Fastening untreated wood and plywood to steel framing  
Fastening exterior sheathing

### Technical data:

Screw design	Drill point - Fine thread - Bugle head
Insert bit type	PH2
Material	Carbon steel
Coating	Zinc plated
Approval	-
Environmental conditions	



### Single screws

Description	Length L [in]	Diameter D [ga]	Drilling capacity [ga]	Drilling capacity [in]	Max. Thickness Fastened (MTF)	Drill point	Head diameter [in]	Pkg. quantity	Item no.
<b>S-WD 10-24x1 PWH3</b>	1	10	18 - 7	0.050 - 0.175	5/8" (0.625")	3	0.46	6000	<b>311632</b>
<b>S-WD 10-24x1-1/4 PWH3</b>	1-1/4	10	18 - 7	0.050 - 0.175	7/8" (0.875")	3	0.46	5000	<b>311633</b>
<b>S-WD 10-24x1-1/2 PWH3</b>	1-1/2	10	18 - 7	0.050 - 0.175	1-1/8" (1.125")	3	0.46	3500	<b>311634</b>


## S-WW WINGED REAMER SCREW - PWH 3

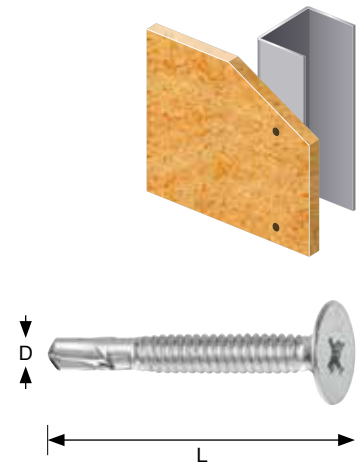
### Application:

Fastening untreated plywood to steel framing

Fastening wood to steel member

### Technical data:

Screw design	Drill point with wings - Fine thread - Wafer head
Insert bit type	PH2
Material	Carbon steel
Coating	Zinc plated
Standard	-
Environmental conditions	



### Single screws

Description	Length L [in]	Diameter D [ga]	Drilling capacity [ga]	Drilling capacity [in]	Max. Thickness Fastened (MTF)	Drill point	Head diameter [in]	Pkg. quantity	Item no.
10-24x1-7/16" PWH 3	1 7/16	10	18 - 7	0.050 - 0.175	3/4" (0.750")	3	0.47	4000	311635

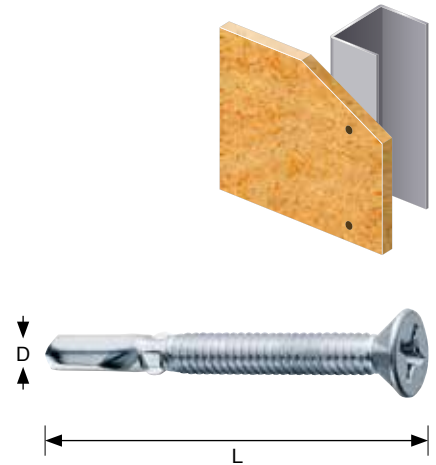
## S-WW WINGED REAMER SCREW - PFH 4

### Application:

Fastening untreated plywood to steel framing  
Fastening wood to steel member

### Technical data:

Screw design	Drill point with wings - Fine thread - Flat head
Insert bit type	PH3
Material	Carbon steel
Coating	Zinc plated
Approval	-
Environmental conditions	



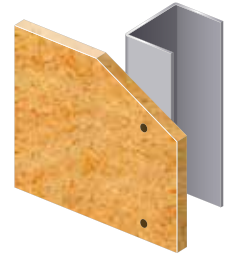
### Single screws

Description	Length L [in]	Diameter D [ga]	Drilling capacity [ga]	Drilling capacity [in]	Max. Thickness Fastened (MTF)	Drill point	Head diameter [in]	Pkg. quantity	Item no.
12-24x2" PFH 4	2	12	18 - 4	0.050 - 0.232	1 1/4" (1.250")	4	0.46	2000	311636
12-24x2-1/2" PFH 4	2-1/2	12	18 - 4	0.050 - 0.232	1 3/4" (1.750")	4	0.46	1500	311637
12-24x2-3/4" PFH 4	2-3/4	12	18 - 3	0.050 - 0.250	2" (2.000")	4	0.46	1000	311638


## SFH SD

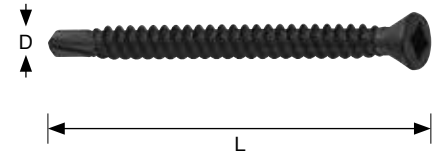
## Application:

Fastening wood trim and base to studs (20 ga - 14 ga)



## Technical data:

Screw design	Drill point - Fine thread - Countersunk flat head
Insert bit type	Square
Material	Carbon steel
Coating	Phosphated
Approval	-
Environmental conditions	



## Single screws

Description	Length L [in]	Diameter D [ga]	Drilling capacity [ga]	Drilling capacity [in]	Head diameter [in]	Pkg. quantity	Item no.
6x1-5/8" SFH SD TRIM	1 5/8	6	20 - 14	0.033 - 0.088	0.47	5000	86233

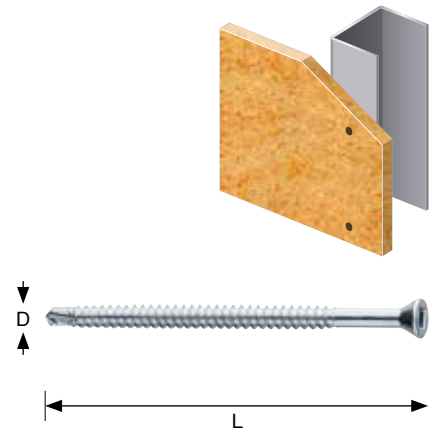
# SFH SD ZINC

**Application:**

Fastening wood trim and base to studs (20 ga - 14 ga)

**Technical data:**

Screw design	Drill point - Fine thread - Countersunk flat head
Insert bit type	Square
Material	Carbon steel
Coating	Zinc plated
Approval	-
Environmental conditions	



**Single screws**

Description	Length L [in]	Diameter D [ga]	Drilling capacity [ga]	Drilling capacity [in]	Head diameter [in]	Pkg. quantity	Item no.
6x2-1/4" SFH SD TRIM ZN	2 1/4	6	20 -14	0.033 - 0.088	0.47	3000	86236




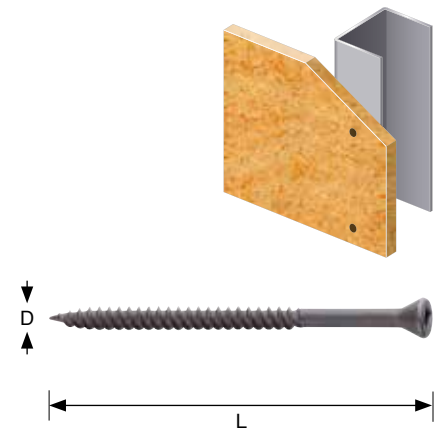
# SFH S

## Application:

Fastening wood trim and base to studs (25 ga - 20 ga)

## Technical data:

Screw design	Drill point - Fine thread - Countersunk flat head
Insert bit type	Square
Material	Carbon steel
Coating	Phosphated
Approval	-
Environmental conditions	



## Single screws

Description	Length L [in]	Diameter D [ga]	Drilling capacity [ga]	Drilling capacity [in]	Head diameter [in]	Pkg. quantity	Item no.
6x2-1/4" SFH S TRIM	2 1/4	6	25 - 20	0.023 - 0.033	0.43	3000	86231

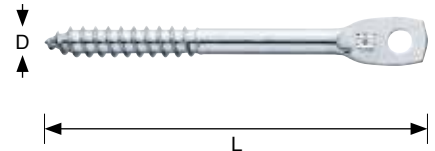
# EYE LAG CEILING FASTENING HANGER

**Application:**

Eye lag screw with a hole for suspended ceiling applications to wood or metal

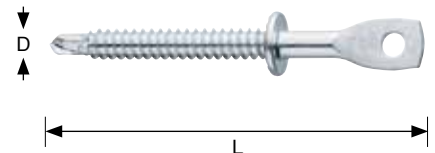
**Technical data 1/4" x 4" EL WS:**

Base material	Wood
Material	Carbon steel
Coated	Zinc plated
Length [in]	4
Item number	388251
Pkg. quantity	100
Environmental conditions	



**Technical data 1/4" x 2-3/4" EL S:**

Base material	Steel 25 - 20 ga and wood
Material	Carbon steel
Coated	Zinc plated
Length [in]	2 3/4
Item number	288574
Pkg. quantity	100
Environmental conditions	

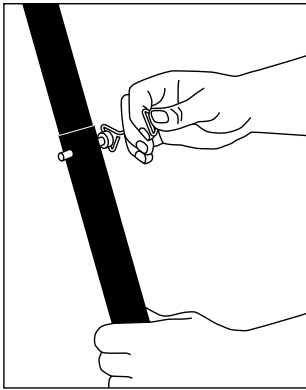


**Technical data 1/4" x 2" EL SD:**

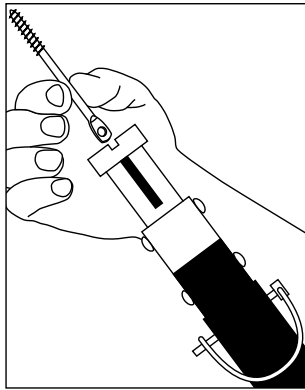
Base material	Steel 22 - 16 ga
Material	Carbon steel
Coated	Zinc plated
Length [in]	2
Item number	388245
Pkg. quantity	100
Environmental conditions	



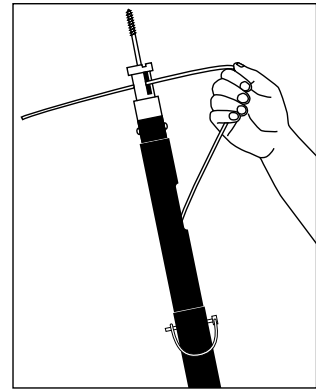
## INSTALLATION INSTRUCTIONS FOR EYE LAG CEILING FASTENING HANGER\*



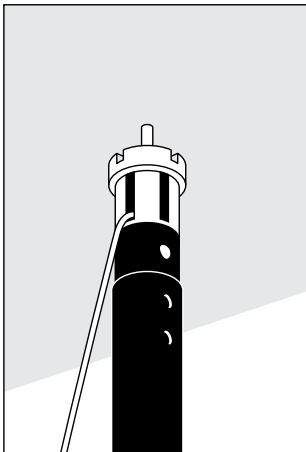
1. Adjust the telescoping tubes to the proper lengths.



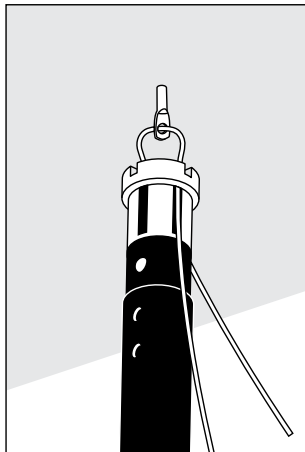
2. Insert the Eye Lag screw into top slot.



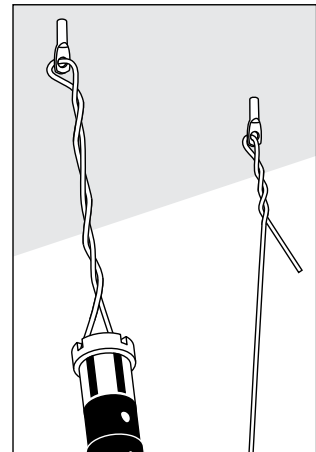
3. Insert wire into side of slot through the eyelet in the Eye Lag screw. Then bend the wire end down. Provide adequate length of wire to properly develop the required number of loops after twisting.



4. Raise tool against the ceiling, rotate the pole tool until the Eye Lag screw is at least 1-1/2" into the wood base material (embedment varies for steel base material) **CAUTION:** In steel base material, stop turning before washer contacts base material to avoid stripping of the base steel.



5. Lower the tool about 2" from base material surface as shown.



6. Rotate the tool again to twist the wire. The pole tool may be turned by hand or by using a 1/2" variable speed drill. **CAUTION:** If using drill, do not grip pole tightly with hand, but allow it to turn loosely.

\* These are abbreviated instructions which may vary by application. **ALWAYS** review/follow the instructions accompanying the product.

## 5. OVERVIEW OF TOOLS AND ACCESSORIES

### Cordless drywall screwdriver SD 4500-A22



Ordering description	Content	Sales quantity	Item number
Cordless drywall screwdriver SD 5000-A22 cardboard box	1 x SD 4500-A22 1 x Bit S-B PH2 25/1" IF 1 x Bit holder S-BH M 50/2" 1 x Depth gauge S-DG	1 pc	2149759

### Corded drywall screwdriver SD 4500 120V



Ordering description	Content	Sales quantity	Item number
Corded drywall screwdriver SD 4500 120V cardboard box	1 x SD 4500 120V 15' cord 1 x Bit S-B PH2 26/1" IF 1 x Bit holder S-BH M 50/2" 1 x Depth gauge S-DG	1 pc	2020087

### Corded wood/drywall screwdriver SD 2500 120V



Ordering description	Content	Sales quantity	Item number
Corded wood/drywall screwdriver SD 2500 120V cardboard box	1 x SD 2500 120V 1 x Bit S-B PH2 26/1" IF 1 x Bit holder S-BH M 75/3"	1 pc	285703

### Screw magazine SD-M 1



Ordering description	Content	Sales quantity	Item number
Screw magazine SD-M 1	1 x SD-M 1 1 x Bit S-SY PH2 81/3 1/4"	1 pc	2208484

### Screw magazine SD-M 2



Ordering description	Content	Sales quantity	Item number
Screw magazine SD-M 2	1 x SD-M 2 1 x Bit S-SY PH2 102/4"	1 pc	2208485

### Extension tube SME



Ordering description	Content	Sales quantity	Item number
Extension tube SME	1 x Extension tube 1 x Bit holder S-BH 570 SME 1 x Side handle	1 pc	304495
Spare bit holder S-BH 570 SME		1 pc	304741

### Pole tube SF PT for fastening eye lag ceiling fastening hanger



Ordering description	Content	Sales quantity	Item number
Pole tube SF PT 4" - 12 "		1 pc	289875
Pole tube SF PT 8" - 12 "		1 pc	289876

## Magnetic bit holders S-BH M



Ordering description	Sales quantity	Item number
Magnetic bit holder S-BH M 50/2"	1 pc	2038758
Magnetic bit holder S-BH M 75/3"	1 pc	2038759

## Insert bits S-B (IF)



Ordering description	Sales quantity	Item number
Drywall insert bits #2 PHL 10 pk	10	2039035
Drywall insert bits #2 PHL 100 pk	100	2039036
Drywall insert bits #2 PHL 250 pk	250	2039037

## Insert bits for SD-M 1



Material description	Sales quantity	Item number
Driver bit S-SY PH2 81/3-1/4" 5 pk	5	2039290
Driver bit S-SY PH2 81/3-1/4" 10 pk	10	2039291

## Insert bits for SD-M 2



Material description	Sales quantity	Item number
Driver bit S-SY PH2 102/4" 5 pk	5	2131008
Driver bit S-SY PH2 102/4" 10 pk	10	2131009







20 horizontal lines for notes or drawing.



Hilti Corporation  
9494 Schaan, Liechtenstein  
P +423-234 2965

[www.facebook.com/hiltigroup](https://www.facebook.com/hiltigroup)  
[www.hilti.group](http://www.hilti.group)