

February 22, 2010

To Whom It May Concern:

The International Building Code and International Residential Code (IBC 2006 and IRC2006) refer to ASTM C 1002 and ASTM C 954 as the necessary requirements for sharp point and self-drilling screw fasteners:

ASTM C 1002 - Standard Specification for Steel Self-Piercing Tapping Screws for the Application of Gypsum Panel Products or Metal Plaster Bases to Wood Studs or Steel Studs

ASTM C 954 - Standard Specification for Steel Drill Screws for the Application of Gypsum Panel Products or Metal Plaster Bases to Steel Studs from 0.033 in. (0.84 mm) to 0.112 in. (2.84 mm) in Thickness

ASTM C 1002 covers sharp point screws for attachment of drywall to wood or light gauge steel. ASTM C 954 covers self-drilling screws for attachment of drywall to light gauge steel.

For IBC and IRC areas, drywall screws meeting the aforementioned ASTM standards are addressed within the building code by reference standard. Therefore, if the drywall screw meets the requirements of ASTM C 1002 or ASTM C 954, the design of these fasteners would be in accordance with the IBC or IRC and AISI NASPEC. Screw fastener load performance data, as well as spacing and edge distance recommendations are provided in the IBC, IRC and AISI NASPEC.

All Hilti Sharp Point and Self Drilling Screws meet the requirements of ASTM C 1002 or ASTM C 954.

The above information is current as of this date and is subject to change without notice. I hope this addresses your needs. Please feel free to contact me if you have any further questions.

Regards,

Andrew Liechti, P.E.
Technical Services Engineer
Hilti, Inc.
P: (918) 872-5805
F: (918) 461-5805
Drew.Liechti@hilti.com



Hilti North America
5400 South 122nd East Avenue
Tulsa, OK 74146

P.O. Box 21148 | Tulsa, OK 74121-1148
T 1-800-879-8000 | F 918-252-6742
www.hilti.com

March 19, 2008

Re: Recycled Steel Content in Hilti Products

To Whom It May Concern:

One of the vendor/supplier requirements on LEED projects is to supply specific information about the products being used on the projects such as, manufacturing location of the product, VOC content, recycled content, etc. Hilti Inc. will always make every attempt to supply our Customers with any information needed to complete the documentation requirements of the project. One of the areas that is proving to be problematic is the recycled content of our various steel products.

Steel mills have two primary criteria to meet when they produce steel; 1) They must meet the chemical requirements of the particular grade of steel that they are producing. 2) They must meet the physical (strength) requirements for the particular grade of steel that they are producing. If these two requirements are met, the steel mills have met their obligations. Consequently, unless special lots of steel are used (which would be cost prohibitive) it is not possible for the steel mills to positively identify the source of their raw materials.

While most steel does have recycled content, it is almost impossible to quantify exact percentages. For this reason, Hilti Inc. is unable to provide recycled content of our steel products.

Jerry Metcalf MPH, CHMM
Safety/Environmental Manager
Hilti Inc

February 15, 2010

Subject: Hilti Screw Fastening Systems sourcing

To Whom It May Concern:

This letter is to outline several points regarding the management of Hilti's line of screw fasteners in North America.

- **Our Sourcing strategy is to partner with the best possible manufacturers of screws. This is an onus that we take seriously as part of our long-term commitment to be the partner of choice for our customers. As a global company operating in more 120 countries, we have the opportunity to interface with many vendors. This has led us to choose our key suppliers in Taiwan who can consistently deliver the quality and volumes required to meet the expectations of our customers.**
- **In the Buy American Act of January 2005, a "Designated country" is outlined in clause 52.225-11. These include any World Trade Organization Government Procurement Act country: <https://www.acquisition.gov/far/html/FARTOCP52.html>**
- **In December of 2008, the United States and other GPA parties approved the terms for Taiwan's ascension to the GPA. This became effective in July 2009 and was announced in a press release by the Office of the United States Trade Representative: <http://www.ustr.gov/about-us/press-office/press-releases/2009/july/ambassador-ron-kirk-applauds-taiwans-accession-wto-ag>**
- **A number of years ago, Hilti North America did stock drywall screws that met the Buy America act as confirmed by our supplier. These screws were made available to our customers as an addition to the standard product portfolio. Demand for screws compliant with the Buy America act remained too low for us to cover our inventory carrying costs and we were forced to discontinue them.**
- **In looking to balance the occasional demand for made in America screws with our inventory carrying costs, we now have the capability to source made in America screws upon request. Timeframe for delivery is 6-8 weeks and 1 pallet per fastener type is the minimum order. Pricing is provided at the time of order. It is reasonable to expect costing commensurate with the custom nature of this manufacturing. The pricing of Hilti's made in America screws compared to Hilti's made in Taiwan screws will exceed the generally accepted 6% premium rule outlined in the Federal Acquisition (FAR) Clause 25.202: http://www.arnet.gov/far/current/html/Subpart%2025_2.html#wp1082630**

In summary, Hilti provides both Asian sourced and American sourced screws for our customers to support them across the range of project types and requirements that they may encounter.

Respectfully,

**Aaron Heilbrun
Product Manager
Screw Fastening Systems**

Hilti, Inc.
5400 South 122nd East Avenue
Tulsa, OK 74146

1-800-879-8000
www.hilti.com

Hilti, Inc.
5400 South 122nd East Avenue
Tulsa, Oklahoma 74146
800-879-8000 (US) or 800-363-4458 (Canada)

July 4, 2009

To Whom It May Concern:

This letter is to state Hilti's position regarding the installation of chemically treated lumber such as ACQ. Hilti offers a range of screw fasteners with progressive resistance to corrosion and Hydrogen-Assisted Stress Corrosion Cracking (HASCC):

- **Screws with a high corrosion resistant finish.** Within Hilti's current line of screws, this includes the following:
 - Cement Board Screws
 - Ceramic Coated Wood Screws
 - Wood to Metal Self-drilling Screws with Kwik Cote finish (with and without wings)
 - Any other screw with a Kwik Cote finish such as the collated 2" Coarse (#331919)
 - Please consider that these screws are hardened along their entire length and are therefore susceptible to HASCC. Whether the site-specific conditions may create HASCC must be determined by the responsible person on the project.
- **Kwik Flex screws.** In addition to the the Kwik Cote finish, Kwik Flex screws are virtually immune to HASCC due to their differential hardness – the load bearing section of the threads is not hardened.
- **Bi-metal Kwik Flex screws.** These screws feature a carbon steel drill tip for maximum drilling performance with a 300 series (18-8) stainless steel body for maximum corrosion resistance. Bi-metal Kwik Flex are virtually immune to HASCC.
- Please consider that hardened 410 stainless steel, 410 super-passivated stainless steel and 400 modified stainless steel are generally considered susceptible to HASCC.

At the time of writing, there was no standardized set of criteria for claiming ACQ compliance. The decision as to which fastener optimally meets the demands of a specific application is ultimately the judgment of the Engineer of Record or other responsible person for the project.

For additional information, please consult the Hilti Technical Guide or call 800-879-8000 and ask to speak with a Technical Services Engineer.

Best Regards,

Aaron Heilbrun
Product Manager
Screw Fastening Systems

Hilti, Inc.
5400 South 122nd East Avenue
Tulsa, OK 74146

1-800-879-8000
www.hilti.com

Self-Drilling Screws 3.6.2

3.6.2.1 Product Description

The Hilti Self-Drilling Screws are designed to drill their own hole in steel base materials up to 1/2" thick. These screws are available in a variety of head styles, thread lengths and drill-flute lengths for screw diameters #6 through 1/4". Hilti self-drilling screws meet ASTM C 1513, ASTM C 954 and SAE J78 standards, as applicable.

Product Features

- Hex head for metal-to-metal applications
- Flush head for wood-to-metal applications
- For metal from 0.035" to 0.500" thick
- Winged reamers for wood over 1/2" thick
- Stitch screws for light gauge metal-to-metal
- Sealing screws for water resistant fastenings

3.6.2.1 Product Description

3.6.2.2 Material Specifications

3.6.2.3 Technical Data

3.6.2.4 Installation Instructions

3.6.2.5 Ordering Information



3.6.2.2 Material Specifications

Material	ASTM A 510 Grade 1018-1022
Heat Treatment	Case hardened and tempered <ul style="list-style-type: none"> • Sizes 8, 10 and 12: 0.004" to 0.009" case depth • Size 1/4": 0.005" to 0.011" case depth
Plating	<ul style="list-style-type: none"> • Wood decking screws: Black Phosphate (8-18 x 1-5/16" PFH #3 and 8-18 x 1-15/16" and 5/16" PFH #3) • Kwik-Cote and Kwik-Seal screws: 0.0007" to 0.0015" Kwik-Cote Treatment <p>Note: Due to environmental considerations, Hilti does not plate with cadmium.</p> <ul style="list-style-type: none"> • Most Hilti zinc plated screws conform to ASTM F 1941 (which replaces ASTM B 633), as tested in accordance with ASTM B 117. The minimum zinc thickness is 5 microns. Refer to Section 3.6.2.5 for screw coating information.

Kwik-Cote Treatment Kwik-Cote is a unique copolymer coating that provides greater corrosion resistance than zinc or cadmium plating.

Listings/Approvals

ICC-ES (International Code Council)
ESR-2196

COLA (City of Los Angeles)
RR 25678



ICC-ES ESR-2196, provides IBC 2006/2009 recognition of Hilti's Self-Drilling Screw fasteners for most common applications (e.g. CFS connections, gypsum to CFS, etc.), including HWH, PPH, PBH, PWH, PPCH, PFUCH and PFTH head style screws.

3.6.2.3 Technical Data

Ultimate Tensile Strengths – Pullout (Tension), lb (kN)^{1,2,3,4,5,6,7}

Screw Designation	Nominal Diameter in.	Thickness of steel member not in contact with the screw head, GA (in.)					
		20 (0.036)	18 (0.048)	16 (0.060)	14 (0.075)	12 (0.105)	10 (0.135)
#6	0.138	190 (0.85)	250 (1.11)	320 (1.42)	395 (1.76)	555 (2.47)	715 (3.18)
#7	0.151	210 (0.93)	275 (1.22)	345 (1.53)	435 (1.93)	605 (2.69)	780 (3.47)
#8	0.164	225 (1.00)	300 (1.33)	375 (1.67)	470 (2.09)	660 (2.94)	845 (3.76)
#10	0.190	260 (1.16)	350 (1.56)	435 (1.93)	545 (2.42)	765 (3.40)	980 (4.36)
#12	0.216	295 (1.31)	395 (1.76)	495 (2.20)	620 (2.76)	870 (3.87)	1120 (4.98)
1/4 in.	0.250	345 (1.53)	460 (2.05)	575 (2.56)	715 (3.18)	1000 (4.45)	1290 (5.74)

- 1 The lower of the ultimate pull-out, pullover, and tension fastener strength of screw should be used for design.
- 2 Load values based upon calculations done in accordance with Section E4 of the AISI North American Specification for the Design of Cold-Formed Steel Structural Members (NASPEC) 2007 edition.
- 3 The NASPEC recommends a safety factor of 3.0 be applied for allowable strength design, a Φ factor of 0.5 be applied for LRFD design or a Φ factor of 0.4 be applied for LSD design.
- 4 ANSI/ASME standard screw diameters were used in the calculations and are listed in the tables.
- 5 The screw diameters in the table above are available in head styles of pan, hex washer, pancake, flat, wafer and bugle.
- 6 The load data in the table is based upon sheet steel with $F_u = 45$ ksi. For $F_u = 55$ ksi steel, multiply values by 1.22. For $F_u = 65$ ksi steel, multiply values by 1.44.
- 7 Refer to Section 3.6.2.5 to ensure drilling capacities.

3.6.2 Self-Drilling Screws

Ultimate Tensile Strengths – Pullover (Tension), lb (kN)^{1,2,3,4,5,6,7}

Screw Designation	Washer or Head Diameter in.	Thickness of steel member in contact with the screw head, GA (in.)						
		22 (0.030)	20 (0.036)	18 (0.048)	16 (0.060)	14 (0.075)	12 (0.105)	10 (0.135)
Hex Washer Head (HWH)								
#8	0.335	675 (3.00)	815 (3.63)	1000 (4.45)	1000 (4.45)	1000 (4.45)	1000 (4.45)	1000 (4.45)
#10	0.399	805 (3.58)	970 (4.31)	1290 (5.74)	1370 (6.09)	1370 (6.09)	1370 (6.09)	1370 (6.09)
#12-14	0.415	835 (3.71)	1010 (4.49)	1340 (5.96)	1680 (7.47)	2100 (9.34)	2325 (10.34)	2325 (10.34)
#12-24	0.415	835 (3.71)	1010 (4.49)	1340 (5.96)	1680 (7.47)	2100 (9.34)	2940 (13.08)	3780 (16.81)
1/4 in.	0.500	1010 (4.49)	1220 (5.43)	1620 (7.21)	2030 (9.03)	2530 (11.25)	3540 (13.75)	4560 (20.28)
Phillips Pan Head (PPH)								
#7	0.303	615 (2.74)	735 (3.27)	980 (4.36)	1000 (4.45)	1000 (4.45)	1000 (4.45)	1000 (4.45)
#8	0.311	630 (2.80)	755 (3.36)	1000 (4.45)	1000 (4.45)	1000 (4.45)	1000 (4.45)	1000 (4.45)
#10	0.364	740 (3.29)	885 (3.94)	1180 (5.25)	1370 (6.09)	1370 (6.09)	1370 (6.09)	1370 (6.09)
Phillips Truss Head (PTH)								
#8	0.433	875 (3.89)	1000 (4.45)	1000 (4.45)	1000 (4.45)	1000 (4.45)	1000 (4.45)	1000 (4.45)
#10	0.411	830 (3.69)	1000 (4.45)	1330 (5.92)	1390 (6.18)	1390 (6.18)	1390 (6.18)	1390 (6.18)
Phillips Pancake Head (PPCH)								
#10	0.409	830 (3.69)	995 (4.43)	1325 (5.89)	1370 (6.09)	1370 (6.09)	1370 (6.09)	1370 (6.09)
Phillips Flat Truss Head (PFTH)								
#10	0.364	740 (3.29)	885 (3.94)	1180 (5.25)	1475 (6.56)	1840 (8.18)	2170 (9.65)	2170 (9.65)

- The lower of the ultimate pull-out, pullover, and tension fastener strength of screw should be used for design.
- Load values based upon calculations done in accordance with Section E4 of the AISI North American Specification for the Design of Cold-Formed Steel Structural Members (NASPEC) 2007 edition.
- The NASPEC recommends a safety factor of 3.0 be applied for allowable strength design, a Φ factor of 0.5 be applied for LRFD design or a Φ factor of 0.4 be applied for LSD design.
- ANSI/ASME standard screw head diameters were used in the calculations and are listed in the tables.
- Phillips Bugle Head (PBH) and Phillips Wafer Head (PWH) styles are not covered by this table because they are not intended for attachment of steel to steel.
- The load data in the table is based upon sheet steel with $F_u = 45$ ksi. For $F_u = 55$ ksi steel, multiply values by 1.22. For $F_u = 65$ ksi steel, multiply values by 1.44.
- Refer to Section 3.6.2.5 for drilling capacities.

Nominal Ultimate Fastener Strength of Screw

Screw Designation	Nominal Diameter (in.)	Nominal Fastener Strength	
		Tension, P_{ts} lb (kN) ¹	Shear, P_{ss} lb (kN) ^{2,3,4}
#6-20	0.138	1000 (4.45)	890 (3.96)
#7-18	0.151	1000 (4.45)	890 (3.96)
#8-18	0.164	1000 (4.45)	1170 (5.20)
#10-12	0.190	2170 (9.65)	1645 (7.32)
#10-16	0.190	1370 (6.09)	1215 (5.40)
#10-18	0.190	1390 (6.18)	1645 (7.32)
#12-14	0.216	2325 (10.34)	1880 (8.36)
#12-24	0.216	3900 (17.35)	2285 (10.16)
1/4 in.	0.250	4580 (20.37)	2440 (10.85)

- The lower of the ultimate pull-out, pullover, and tension fastener strength of screw should be used for design.
- The lower of the ultimate shear fastener strength and shear bearing should be used for design.
- The NASPEC recommends a safety factor of 3.0 be applied for allowable strength design, a Φ factor of 0.5 be applied for LRFD design or a Φ factor of 0.4 be applied for LSD design.
- When the distance to the end of the connected part is parallel to the line of the applied force the allowable shear fastener strength must be reduced for end distance, when necessary, in accordance with E4.3.2 of Appendix A of the AISI North American Specifications for the Design of Cold Formed Steel Structural Members (NASPEC) 2007 edition.

Torsional Strength –

Screw Only. Does Not Consider Base Material Limitations

Size	Min. Torsional Strength in-lb (Nm)	
6-20	24	(2.7)
7-18	38	(4.3)
8-18	42	(4.8)
10-12	61	(6.9)
10-16	61	(6.9)
10-18	61	(6.9)
10-24	65	(7.3)
12-14	92	(10.4)
12-24	100	(11.3)
1/4-14	150	(17.0)
1/4-20	156	(17.6)

Self-Drilling Screws 3.6.2

Ultimate Shear Strengths – Bearing (Shear), lb (kN)^{1,2,3,4,5,6,7}

Screw Designation	Nominal Diameter in.	Thickness of steel member in contact with screw head GA (in.)	Thickness of steel member not in contact with the screw head, GA (in.)				
			20 (0.036)	18 (0.048)	16 (0.060)	14 (0.075)	≥ 12 (0.105)
#7	0.151	20 (0.036)	500 (2.22)	660 (2.94)	660 (2.94)	660 (2.94)	660 (2.94)
		18 (0.048)	500 (2.22)	660 (2.94)	880 (3.91)	880 (3.91)	880 (3.91)
		≥ 16 (0.060)	500 (2.22)	660 (2.94)	890 (3.96)	890 (3.96)	890 (3.96)
#8	0.164	20 (0.036)	525 (2.34)	715 (3.18)	715 (3.18)	715 (3.18)	715 (3.18)
		18 (0.048)	525 (2.34)	805 (3.58)	955 (4.25)	955 (4.25)	955 (4.25)
		≥ 16 (0.060)	525 (2.34)	805 (3.58)	1120 (4.98)	1170 (5.20)	1170 (5.20)
#10-12	0.190	20 (0.036)	565 (2.51)	830 (3.69)	830 (3.69)	830 (3.69)	830 (3.69)
		18 (0.048)	565 (2.51)	865 (3.85)	1110 (4.94)	1110 (4.94)	1110 (4.94)
		16 (0.060)	565 (2.51)	865 (3.85)	1210 (5.38)	1390 (6.18)	1390 (6.18)
		≥ 14 (0.075)	565 (2.51)	865 (3.85)	1210 (5.38)	1645 (7.32)	1645 (7.32)
#10-16	0.190	20 (0.036)	565 (2.51)	830 (3.69)	830 (3.69)	830 (3.69)	830 (3.69)
		18 (0.048)	565 (2.51)	865 (3.85)	1110 (4.94)	1110 (4.94)	1110 (4.94)
		≥ 16 (0.060)	565 (2.51)	865 (3.85)	1210 (5.38)	1215 (5.40)	1215 (5.40)
#10-18	0.190	20 (0.036)	565 (2.51)	830 (3.69)	830 (3.69)	830 (3.69)	830 (3.69)
		18 (0.048)	565 (2.51)	865 (3.85)	1110 (4.94)	1110 (4.94)	1110 (4.94)
		16 (0.060)	565 (2.51)	865 (3.85)	1210 (5.38)	1390 (6.18)	1390 (6.18)
		≥ 14 (0.075)	565 (2.51)	865 (3.85)	1210 (5.38)	1645 (7.32)	1645 (7.32)
#12-14	0.216	20 (0.036)	600 (2.67)	930 (4.14)	945 (4.20)	945 (4.20)	945 (4.20)
		18 (0.048)	600 (2.67)	925 (4.11)	1260 (5.60)	1260 (5.60)	1260 (5.60)
		16 (0.060)	600 (2.67)	925 (4.11)	1290 (5.74)	1570 (6.98)	1570 (6.98)
		≥ 14 (0.075)	600 (2.67)	925 (4.11)	1290 (5.74)	1800 (8.00)	1880 (8.36)
#12-24	0.216	20 (0.036)	600 (2.67)	930 (4.14)	945 (4.20)	945 (4.20)	945 (4.20)
		18 (0.048)	600 (2.67)	925 (4.11)	1260 (5.60)	1260 (5.60)	1260 (5.60)
		16 (0.060)	600 (2.67)	925 (4.11)	1290 (5.74)	1570 (6.98)	1570 (6.98)
		14 (0.075)	600 (2.67)	925 (4.11)	1290 (5.74)	1800 (8.00)	1970 (8.76)
		≥ 12 (0.090)	600 (2.67)	925 (4.11)	1290 (5.74)	1800 (8.00)	2285 (10.16)
1/4 in.	0.250	20 (0.036)	645 (2.87)	1020 (4.54)	1090 (4.85)	1090 (4.85)	1090 (4.85)
		18 (0.048)	645 (2.87)	995 (4.43)	1400 (6.23)	1460 (6.49)	1460 (6.49)
		16 (0.060)	645 (2.87)	995 (4.43)	1390 (6.18)	1820 (8.10)	1820 (8.10)
		14 (0.075)	645 (2.87)	995 (4.43)	1390 (6.18)	1940 (8.63)	2280 (10.14)
		≥ 12 (0.090)	645 (2.87)	995 (4.43)	1390 (6.18)	1940 (8.63)	2440 (10.85)

- 1 The lower of the ultimate shear bearing and shear fastener strength of screw should be used for design.
- 2 Load values based upon calculations done in accordance with Section E4 of the AISI North American Specification for the Design of Cold-Formed Steel Structural Members (NASPEC) 2007 edition. It is assumed that the steel sheets are tight together with no gaps.
- 3 The NASPEC recommends a safety factor of 3.0 be applied for allowable strength design, a Φ factor of 0.5 be applied for LRFD design or a Φ factor of 0.4 be applied for LSD design.
- 4 ANSI/ASME standard screw head diameters were used in the calculations and are listed in the tables.
- 5 Load values in table are for Hex Washer Head (HWH and HHWH), Phillips Pan Head (PPH), Phillips Truss Head (PTH), Phillips Pancake Head (PPCH), and Phillips Flat Truss Head (PFTH) style screws. Phillips Bugle Head (PBH) and Phillips Wafer Head (PWH) styles are not covered by this table because they are not intended for attachment of steel to steel.
- 6 The load data in the table is based upon sheet steel with $F_u = 45$ ksi. For $F_u = 55$ ksi steel, multiply values by 1.22. For $F_u = 65$ ksi steel, multiply values by 1.44.
- 7 Refer to Section 3.6.2.5 to ensure drilling capacities.

3.6.2.4 Installation Instructions

For general discussion of Hilti screw fastener installation, reference Section 3.6.1.7.

For allowable diaphragm shear loads and stiffness values for steel roof or floor deck utilizing Hilti self-drilling screws as frame or sidelap fasteners, reference Section 3.5 and

download Hilti's Profis DF software at www.us.hilti.com/decking (US), or www.hilti.ca (Canada).

To estimate the number of sidelap screws on a steel roof or floor deck project, reference Section 3.5.1.6.

Warning: Because of the potential for delayed hydrogen assisted stress corrosion cracking, many hardened steel fasteners are not recommended for use with dissimilar metals or chemically treated wood when moisture may be present or in corrosive environments. For further information, contact Hilti Technical Support at 1-877-749-6337.

Self-Drilling Screws 3.6.2

Drywall Applications (Drywall to steel, framing and lathing screws)

Description	Coating ¹	Box Qty	Application
6 x 1 PBH SD	BP	10,000	Fastening Drywall, plywood, insulation, etc. to metal studs from 14 ga to 20 ga
6 x 1 PBH SD Zinc	Zinc-2	10,000	
6 x 1-1/8 PBH SD	BP	10,000	
6 x 1-1/8 PBH SD Zinc	Zinc-2	10,000	
6 x 1-1/4 PBH SD	BP	8,000	
6 x 1-1/4 PBH SD Zinc	Zinc-2	8,000	
6 x 1-5/8 PBH SD	BP	5,000	
6 x 1-5/8 PBH SD Zinc	Zinc-2	5,000	
6 x 1-7/8 PBH SD	BP	4,000	
6 x 1-7/8 PBH SD Zinc	Zinc-2	4,000	
8 x 2-3/8 PBH SD	BP	2,500	
8 x 2-3/8 PBH SD Zinc	Zinc-2	2,500	
8 x 2-5/8 PBH SD	BP	1,600	
8 x 2-5/8 PBH SD Zinc	Zinc-2	1,600	
8 x 3 PBH SD	BP	1,400	
8 x 3 PBH SD Zinc	Zinc-2	1,400	
7 x 7/16 PPFH SD Frammer	BP	10,000	
7 x 7/16 PPFH SD Frammer Zinc	Zinc-2	10,000	
8 x 1/2 PPH SD Frammer Zinc	Zinc-2	10,000	
10 x 5/8 PPCH SD Frammer	Zinc-1	7,500	
10 x 3/4 PFTH SD Frammer Zinc	Zinc-1	7,500	
10 x 3/4 PTH SD Frammer Zinc	Zinc-2	5,000	
8 x 1/2 PTH SD Lathing Zinc	Zinc-2	10,000	Fastening wire lath to 14 ga to 20 ga
8 x 3/4 PTH SD Lathing Zinc	Zinc-2	10,000	
8 x 1 PTH SD Lathing Zinc	Zinc-2	8,000	
8 x 1-1/4 PTH SD Lathing Zinc	Zinc-2	8,000	
6 x 1-5/8 SFH SD	BP	5,000	Fastening wood trim and base to 14 ga to 20 ga studs
6 x 2-1/4 SFH SD Zinc	Zinc-2	3,000	

¹ For coating abbreviations, Zinc-1 = ASTM F 1941; Zinc-2 = EN /ISO 4042 A3F; BP = Black Phosphate. For more information on corrosion resistance, reference Section 3.6.1.6.

The importance of IBC 2006 / 2009 compliant screws.

ICC-ES ESR-2196 provides IBC 2006 / 2009 recognition of Hilti's Self-Drilling Screw Fasteners. This recognition was based on a comprehensive and rigorous independent evaluation of Hilti's Self-Drilling Screw Fasteners to the latest IBC code requirements in ICC-ES AC118 Acceptance Criteria for Self-Tapping Screw Fasteners, as well as the AISI S904 and AISI S905 test standards.

AC118 provides the IBC code recognition and quality assurance for screw fasteners. ESR-2196 recognizes many types of Hilti screws for the most common applications including CFS connections, gypsum to CFS, etc. Specifically, ESR-2196 covers the HWH, PPH, PBH, PWH, PPCH, PFUCH and PFTH head style Hilti screws.

To ensure IBC 2006 / 2009 compliance of screws on your next project, reference ESR-2196.





MATERIAL SAFETY DATA SHEET

Product name: Hilti Kiwk-Pro Drywall Screws
Description: Carbon Steel Screws for fastening drywall and drywall framing.
Supplier: Hilti, Inc. P.O. Box 21148, Tulsa, OK 74121
Emergency # (Chem-Trec.): 1 800 424 9300 (USA, PR, Virgin Islands, Canada); 001 703 527 3887 (other countries)

INGREDIENTS AND EXPOSURE LIMITS

Not applicable. This product is considered to be an "article" as defined in the federal OSHA Hazard Communication Standard 29 CFR 1910.1200 / 1926.59.

PHYSICAL DATA

Appearance:	Dark gray/Silver steel screws	Odor:	None.
Vapor Density: (air = 1)	Not applicable.	Vapor Pressure:	Not applicable.
Boiling Point:	Not applicable.	VOC Content:	None.
Evaporation Rate:	Not applicable.	Solubility in Water:	Negligible.
Specific Gravity:	Not applicable.	pH:	Not determined.

FIRE AND EXPLOSION HAZARD DATA

Flash Point:	Not applicable.	Flammable Limits:	Not applicable.
Extinguishing Media:	Not applicable; use extinguishing media as appropriate for surrounding fire.		
Special Fire Fighting Procedures:	Not applicable, however, a NIOSH-approved self-contained breathing apparatus (SCBA) should be worn when fighting fires involving chemicals.		
Unusual Fire and Explosion Hazards:	None known.		

REACTIVITY DATA

Stability:	Stable.	Hazardous Polymerization:	Will not occur.
Incompatibility:	None known.	Decomposition Products:	None known.
Conditions to Avoid:	None known.		

HEALTH HAZARD DATA

Known Hazards:	None known.		
Signs and Symptoms of Exposure:	None expected from routine use/installation according to manufacturer's specifications and technical guides.		
Routes of Exposure:	None known.		
Carcinogenicity:	No ingredients are classified as a carcinogen by IARC, NTP or OSHA.		
Medical Conditions Aggravated by Exposure:	None expected.		

EMERGENCY AND FIRST AID PROCEDURES

Eyes:	Not applicable.		
Skin:	Not applicable. Practice good hygiene; i.e. wash hands during breaks, before eating or smoking, and after work.		
Inhalation:	Not applicable.		
Ingestion:	Not a potential route of exposure.		
Other:	Referral to a physician is recommended if there is any question about the seriousness of any injury/exposure.		

CONTROL MEASURES AND PERSONAL PROTECTIVE EQUIPMENT

Ventilation:	General (natural or mechanically induced fresh air movements).
Eye Protection:	Safety glasses with side shields.
Skin Protection:	None required.
Respiratory Protection:	No respiratory protection is needed for normal application of this product.

PRECAUTIONS FOR SAFE HANDLING AND USE

Handling and Storing Precautions:	Store in a cool dry area. Follow installation instructions.
Spill Procedures:	Not applicable. No special requirements.

REGULATORY INFORMATION

Hazard Communication:	This product is considered to be an "article" as defined in the federal OSHA Hazard Communication Standard.
DOT Shipping Name:	Not regulated.
IATA / ICAO Shipping Name:	Not regulated.
TSCA Inventory Status:	Chemical components listed on TSCA inventory.
SARA Title III, Section 313:	This product is classified as an "article" and is not subject to reporting under Section 313 of SARA Title III (40 CFR Part 372).
EPA Waste Code(s):	Not regulated by EPA as a hazardous waste.
Waste Disposal Methods:	Consult with regulatory agencies or your corporate personnel for disposal methods that comply with local, state, and federal safety, health and environmental regulations.

CONTACTS

Customer Service:	1 800 879 8000	Technical Service:	1 800 879 8000
Health / Safety:	1 800 879 6000	Jerry Metcalf	(x6704)
Emergency # (Chem-Trec):	1 800 424 9300 (USA, PR, Virgin Islands, Canada); 001 703 527 3887 (other countries)		

The information and recommendations contained herein are based upon data believed to be correct; however, no guarantee or warranty of any kind expressed or implied is made with respect to the information provided.