

TRUFAST
CORPORATION

TF

NEW

SIP LD Fastener

Structural Insulated Panel Fastener
Light Duty

SIP LD Fastener

TRUFAST's New SIP Fastener is designed to meet the fastening requirements of Structural Insulated Panels into wood and steel (18 gauge max.) substrates

- Drill Point for quick penetration
- Large Pancake Type Head, #3 Square Drive
- #3 Square Drive Bit in each pail
- Thread design to maximize performance and increase pull out value
- Tru-Kote™ epoxy coating (black) exceeds FM Standard 4470
- Available in lengths 3" to 18"



Also Available: SIP HD (Heavy Duty) Fastener for thick steel (Purlin) applications.

Subject to the condition of Approval as a roofing component when installed as shown in the current edition of the Factory Mutual Research Approval Guide



APPROVED



SIP LD Fastener

Part No.	Screw Length	Pieces Pail/Box	Pail Size	Weight Pail/Box	Physical Property	Test Method	Units	Test Specimen	Lumber Specific Gravity	Mean Ultimate Test Value
SIPLD-3000	3"	500	2 Gal.	16 lbs.	Shear Resistance	ASTM D1761				
SIPLD-3500	3-1/2"	500	2 Gal.	18 lbs.			lbs.	SIP to SPF #2 ^{1,3}	0.38	720
SIPLD-4000	4"	500	2 Gal.	20 lbs.			lbs.	SIP to Douglas Fir ^{1,3}	0.45	780
SIPLD-4500	4-1/2"	500	2 Gal.	22 lbs.			lbs.	SIP to Oak ^{1,3}	0.69	790
SIPLD-5000	5"	500	2 Gal.	24 lbs.	Withdrawal Resistance	ASTM D1761				
SIPLD-5500	5-1/2"	500	2 Gal.	26 lbs.			lbs.	SPF #2 ^{1,2}	0.35	1,300
SIPLD-6000	6"	500	2 Gal.	29 lbs.			lbs.	Douglas Fir ^{1,2}	0.46	1,650
SIPLD-6500	6-1/2"	500	2 Gal.	31 lbs.			lbs.	Oak ^{1,2}	0.64	3,150
SIPLD-7000	7"	500	2 Gal.	33 lbs.			lbs.	22 ga. steel, grade E		510
SIPLD-7500	7-1/2"	500	2 Gal.	35 lbs.			lbs.	20 ga. steel, grade E		645
SIPLD-8000	8"	500	2 Gal.	37 lbs.			lbs.	18 ga. steel, grade E		920
SIPLD-9000	9"	500	4 Gal.	41 lbs.	3-Point Bending (Fyb)	ASTM D1575	lbs.			
SIPLD-10000	10"	500	4 Gal.	43 lbs.	Modules of Rupture ⁴		psi			223,900
SIPLD-11000	11"	500	4 Gal.	49 lbs.	Yield Stress		psi			193,000
SIPLD-12000	12"	500	4 Gal.	53 lbs.	Ultimate Stress		psi			225,300
SIPLD-13000	13"	250	Box	29 lbs.						
SIPLD-14000	14"	250	Box	31 lbs.	Head Pull-Through		lbs.	12"x12"x6" SIP Panel 7/16" OSB Skins with EPS Core		910
SIPLD-15000	15"	250	Box	33 lbs.						
SIPLD-16000	16"	250	Box	35 lbs.						
SIPLD-18000	18"	250	Box	39 lbs.						

Notes:

1. Fastener is inserted in the side grain of the main member with the fastener axis perpendicular to the wood fibers.
2. Fastener embedded length = 1.5 in.
3. Connection Yield Model m (single shear) as described in Appendix I.1 of ANSI/AF&PA NDS-1997.
4. Modulus of Rupture (σ_r) is defined as $\sigma_r = M_{uc} / I$ or $\sigma_r = M_u / S$, where M_u is the ultimate moment, associated with the ultimate load on the fastener and S is elastic section modulus.

Installation Instructions: It is recommended to utilize max. 2500 rpm, min. 6.5 amp electric screw gun having a clutch or depth sensing nose piece when fastening to max. 18 ga. steel, plywood, OSB or low density lumber. When fastening into high density lumber or deeper than 2 in. into a timber base, it is advisable to use a 1/2 in., high torque, low rpm drill. Fasteners should never be struck with hammer during installation.

**THE TRUFAST CORPORATION DISCLAIMER/LIMITED WARRANTY
TRUFAST SCREWS AND TRUFAST PLATES**

TRUFAST hereby gives to the original purchaser/owner only, a warranty for (10) years from date of purchase against loss of satisfactory holding ability of the TRUFAST Screws and/or Plates (TRUFAST Products) in construction applications (System) as a result of corrosion and/or deterioration of the TRUFAST Products.

NOTICE: Notification of a claim under this warranty must be submitted in writing thirty (30) days after discovery of a warranted defect to TRUFAST Corporation, 02105 Williams Cty. Rd. 12-C, Bryan, Ohio 43506-9804, together with evidence of the original shipment date and invoice price. Upon such notification, TRUFAST will examine, or cause to be examined, the products in question, without unreasonable delay.

RECURSE: Purchaser's exclusive remedy for breach of said warranty shall be as follows: IF AND ONLY IF, TRUFAST PRODUCTS SHOULD FAIL TO RETAIN SATISFACTORY HOLDING ABILITY UNDER THE CONDITIONS DESCRIBED HEREIN, TRUFAST WILL ONLY REPLACE THE DEFECTIVE PRODUCTS.

EXCLUSIONS: This warranty shall not apply if:

- (1) The integrity of the Screws and/or Plates is damaged during installation or otherwise;
- (2) The System has not been properly installed and maintained;
- (3) The System components have not been installed and maintained to prevent corrosion and/or deterioration due to moisture or chemicals prior to, during, and after construction;
- (4) TRUFAST Products have been repaired or altered in any way by persons other than TRUFAST's authorized service personnel;
- (5) There is any damage resulting from accident, acts of God, alteration, negligence, misuse or abuse;
- (6) Depreciation or deterioration of building materials and/or roofing system components other than TRUFAST Products are a factor in or have contributed to the loss of satisfactory holding ability of the TRUFAST Products; or
- (7) TRUFAST Products are not installed with good workmanship or not in accordance with the then current Factory Mutual System application patterns, specifications, and procedures or not in accordance with TRUFAST then current specifications for installation and maintenance of such Systems.

TRUFAST LITERATURE: The performance specifications listed in TRUFAST's literature are based on controlled laboratory tests and should not be relied upon except as a guideline since building design, engineering, and construction, as well as workmanship and materials of the System, are beyond the control of TRUFAST.

The foregoing warranty is IN LIEU OF ALL OTHER WARRANTIES, EXPRESS, IMPLIED OR STATUTORY, INCLUDING BUT NOT LIMITED TO WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE FOREGOING WARRANTY IS ALSO IN LIEU OF ANY OTHER OBLIGATIONS AND LIABILITIES ON THE PART OF TRUFAST AND ALL OTHER WARRANTIES ARE EXPRESSLY EXCLUDED. TRUFAST NEITHER ASSUMES NOR AUTHORIZES ANY PERSON TO ASSUME FOR IT ANY OTHER OBLIGATION OR LIABILITY WHATSOEVER IN CONNECTION WITH THE FASTENING PRODUCTS, ROOFING SYSTEM, OR CONSTRUCTION IN NO EVENT SHALL TRUFAST BE LIABLE FOR SUCH SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES FOR BREACH OF SAID WARRANTY NOR FOR IMPROPER SELECTION OF TRUFAST PRODUCTS FOR A PARTICULAR APPLICATION.



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