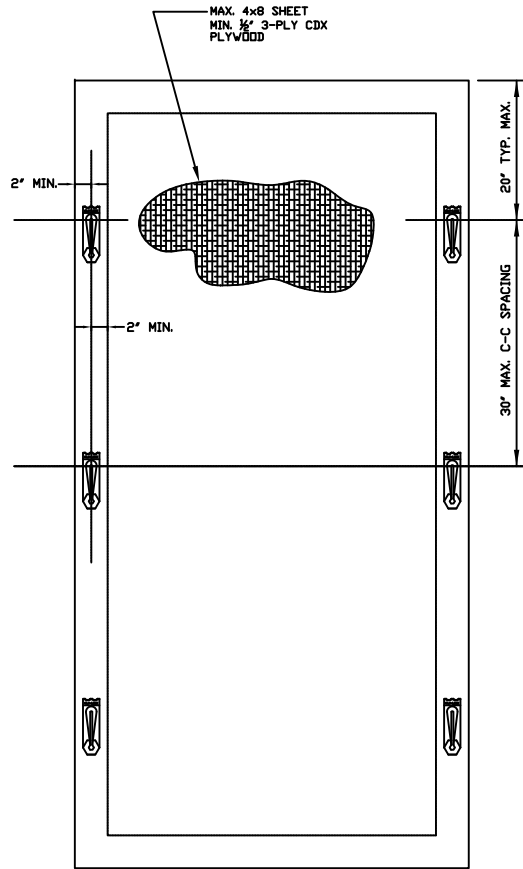


ANCHOR SCHEDULE (NOMINAL ALLOWABLE LOAD)

HOST STRUCT.	ANCHOR	MAX. LOAD (psf)	Spans Up to 24"	Spans Up to 48"	Spans Up to 72"	Spans Up to 96"
CONCRETE or GROUTED HOLLOW BLOCK	1/4" PlyFASTner S.S CONC. LAG SCREW x 3" EMBED	52	30.0"	30.0"	15.0"	15.0"
	1/4" PlyFASTner S.S FLUSH ANCHOR LAG w/ S.S. MACHINE BOLT x 3" EMBED (1" MIN. EDGE DISTANCE)	52	30.0"	30.0"	15.0"	15.0"
	1/4" PlyFASTner Retractable Lag Anchor Zinc Coated Steel MACHINE BOLT x 3" EMBED (1" MIN. EDGE DISTANCE)	52	30.0"	30.0"	15.0"	15.0"

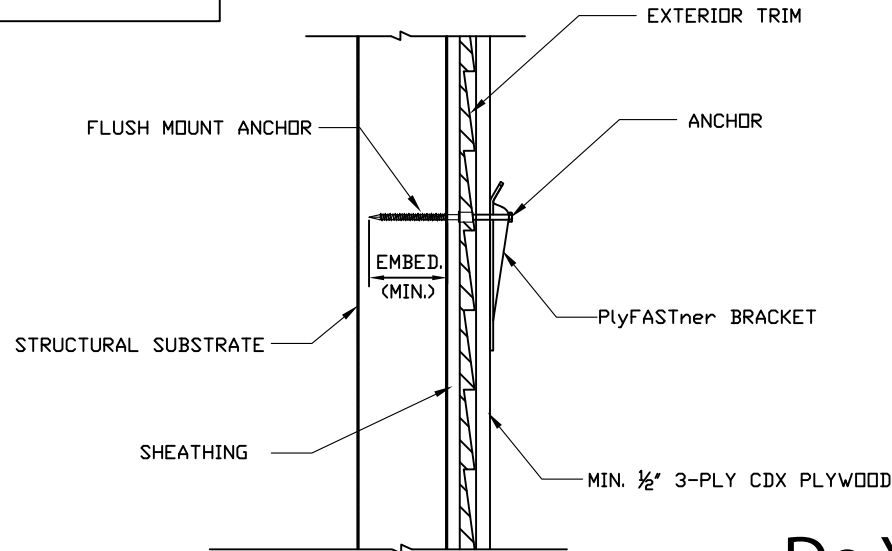
HOST STRUCT.	ANCHOR	MAX. LOAD (psf)	Spans Up to 24"	Spans Up to 48"	Spans Up to 72"	Spans Up to 96"
HOLLOW BLOCK	1/4" TAPCON (ELCO OR ITW)x1-1/4" EMBED	52	30.0"	20.0"	12.0"	9"
	1/4" PANELMATE (PLUS OR FEMALE)x1-1/4" EMBED	52	30.0"	20.0"	12.0"	9"
	1/4" PlyFASTner Retractable Lag Anchor Zinc Coated Steel MACHINE BOLT x 3" EMBED (1" MIN. EDGE DISTANCE)	52	30.0"	20.0"	12.0"	9"

HOST STRUCT.	ANCHOR	MAX. LOAD (psf)	Spans Up to 24"	Spans Up to 48"	Spans Up to 72"	Spans Up to 96"
WOOD	1/4" PlyFASTner S.S LAG SCREW x 2 1/2" EMBED	52	30.0"	30.0"	15.0"	15.0"
	1/4" PlyFASTner S.S FLUSH ANCHOR LAG w/ S.S. MACHINE BOLT x 2 1/2" EMBED (1" MIN. EDGE DISTANCE)	52	30.0"	30.0"	15.0"	15.0"
	1/4" PlyFASTner Retractable Lag Anchor Zinc Coated Steel MACHINE BOLT x 3" EMBED (1" MIN. EDGE DISTANCE)	52	30.0"	30.0"	15.0"	15.0"



General Notes and Specifications:

- This product has been designed and tested in accordance to the 8th Edition Florida Building Code (2023 FBC) excluding the HVHZ. In accordance to Section 1609.1.2, Protection of Openings, PlyFASTner product used in conjunction with min. 1/2" 3-ply CDX plywood meets the requirements of Section 1609.1.2 on buildings. PlyFASTner system has been designed to resist the components and cladding loads determined in accordance with the provisions of ASCE 7. This product adheres to the 2018 & 2021 IBC, Section 1609.2.
- The PlyFASTner bracket and PlyFASTner Plus Heavy Duty bracket is a 1/8" thick formed steel bracket with a min. yield stress of 36 ksi. PlyFASTner brackets are powder coated for corrosion resistance. The PlyFASTner Plus bracket is made from Alcom PA66 which is a base polymer (Polyamide 66) with an infill of 30% glass beads, 2% molybdenum disulphide.
- The PlyFASTner and PlyFASTner Plus Heavy Duty brackets are 1/8" thick formed steel bracket with a min. yield stress of 36 ksi. PlyFASTner brackets are powder coated for corrosion resistance.
- The PlyFASTner Plus bracket is a 0.187" thick black 33% glass filled nylon bracket with a min. tensile strength at break of 11 ksi. Density of 1360 kg/m³. Thermal melting point is 263 °C.
- PlyFASTners shall be installed in accordance with manufacturer's published installation instructions and these instructions. The instructions within this approval govern if there are any conflicts between the manufacturer's instructions and these product approval documents.
- Concrete shall conform to ACI 301 specifications with concrete strength properties as specified herein. Hollow and grout-filled concrete block shall conform to ASTM C-90. Grout shall be min. 3 ksi.
- Hollow concrete masonry units (CMU) shall conform to ASTM C-90 and be minimum "medium weight" CMU with density > 117 PCF.
- Pilot holes for all installations shall be provided and have depth 1/4" longer than indicated embedment depth and diameter as follows:
 - 1/4" dia. anchors shall use a 3/16" carbide tipped masonry drill bit meeting ANSI masonry bit specifications, and whose diameter is 0.206" +.000/-0.008".
 - Pilot holes for all use with AC100+ Gold Adhesive Anchoring System shall use a 5/16" carbide tipped masonry drill bit per manufacturer's instructions.
- This product has been tested in accordance to these standards:
 - ASTM E 330.
 - ASTM E 1886/E1996
- Allowable load design capacities shown in tables have been determined using a safety factor of 4:1. No 33% increase in allowable stress has been used in this evaluation.
- Minimum edge distance and spacing for 100% of allowable load are shown in tables.



① TENSION & SHEAR ALLOWABLE CAPACITIES IN CONCRETE & GROUTED HOLLOW BLOCK (SEE ANCHOR NOTE #1)

ANCHOR DIA.	EMBED	EDGE DIST	C-C SPACING	MIN. 3500 PSI CONCRETE OR MEDIUM-WEIGHT FILLED CMU BLOCK	
				ALLOWABLE TENSION	ALLOWABLE SHEAR
1/4"	2 3/8"	2"	3"	1098 lb	567 lb



PlyFASTner ANCHOR DETAIL

Do Y Kim
Digitally signed by Do Y Kim
Date: 2023.08.01 12:37:17 -04'00'

DO KIM & ASSOCIATES, LLC
CONSULTING STRUCTURAL ENGINEERS

P.O. Box 10039
Tampa, FL 33679
Tel: (813) 857-9955

Rev./Date	Description
4/10/2021	ISSUED
9/17/2021	REVISED TO REFERENCE 2018 IBC
8/1/2023	REVISED TO REFERENCE 8th Edition FBC (2023)

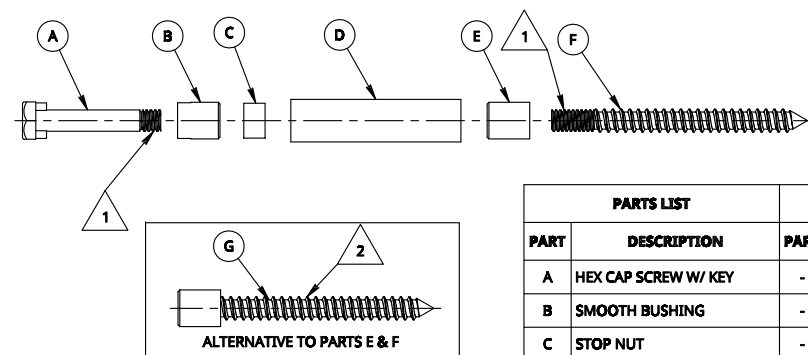
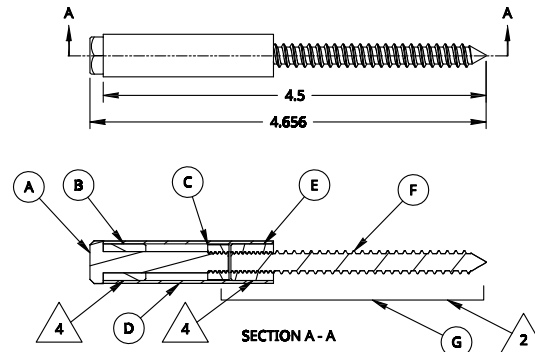
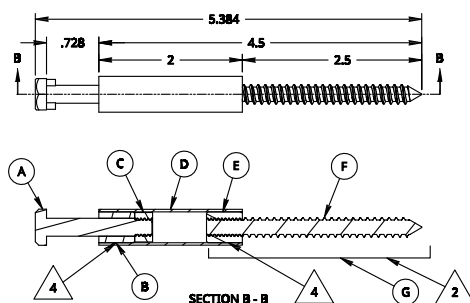
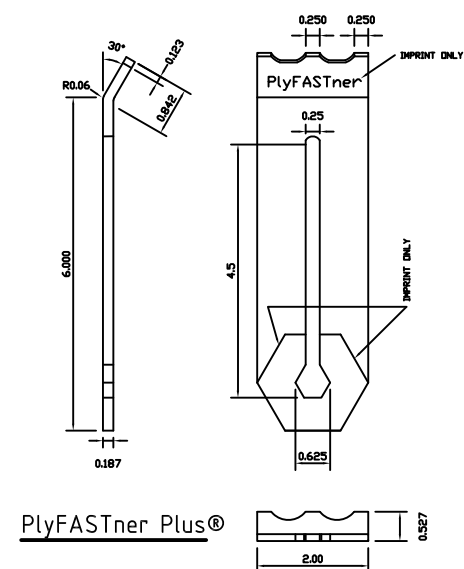
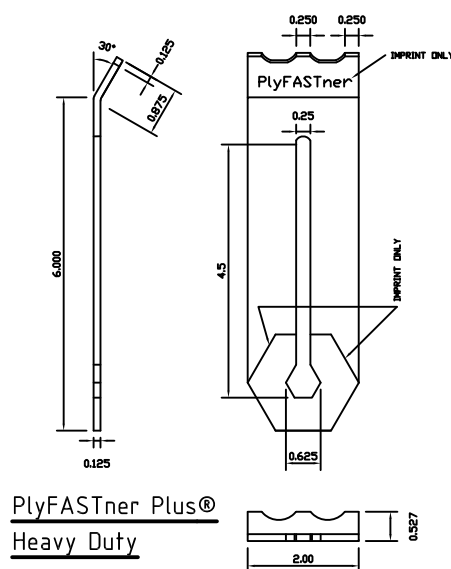
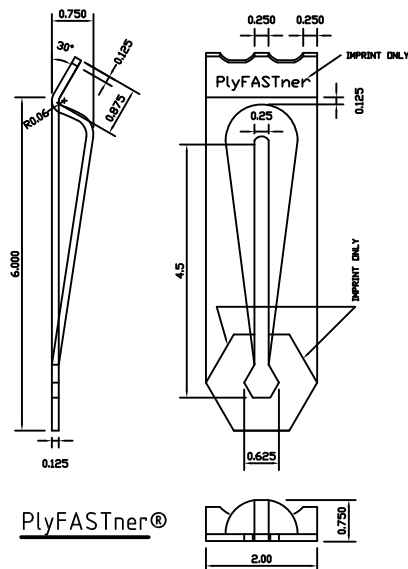
PlyFASTner, LLC
1951 TEAKWOOD ROAD
CHARLESTON, SC 29414
843-766-8199

PlyFASTner®
ANCHOR PRODUCTS

DRAWN BY:	JMS
CHECKED BY:	DYK
SCALE:	AS SHOWN
DATE:	10/14/08

DO Y. KIM
LICENSE
DO YEON KIM, P.E.
FLA. REG. NUMBER 49497
P.O. Box 10039
Tampa, FL 33679

Drawing No. - 100301
SHEET 1 OF 2



PARTS LIST		ALTERNATIVE OPTIONS	
PART	DESCRIPTION	PART	DESCRIPTION
A	HEX CAP SCREW W/ KEY	-	(NONE)
B	SMOOTH BUSHING	-	(NONE)
C	STOP NUT	-	(NONE)
D	COLLAR TUBE	-	(NONE)
E	THREADED BUSHING	G	LAG W/ RECEIVER
F	HANGER BOLT		

PlyFASTner Retractable Anchor

ANCHOR NOTES

1. PlyFASTner S.S. LAG SHALL BE 302 STAINLESS STEEL WITH $\frac{7}{16}$ " HEX HEAD. S.S. FLUSH ANCHOR SHALL BE 304 STAINLESS STEEL WITH $\frac{7}{16}$ " HEX HEAD, $\frac{1}{4}$ /20 MACHINE TREAD, AND SPACER $1\frac{1}{4}$ " x $\frac{1}{2}$ " with DIAMETER FULL THREAD. PlyFASTner Anchor w/ Retractable Bolt SHALL BE ZINC COATED C-1022 LOW CARBON STEEL LAGS. EQUAL CONCRETE SCREWS MAY BE USED WITH APPROVAL OF AUTHORIZED DESIGN PROFESSIONAL. POWERS FASTENERS AC100+ GOLD ADHESIVE ANCHORING SYSTEM SHALL BE USED TO INSTALL ANCHORS INTO CONCRETE AND GROUT FILLED HOLLOW BLOCK WITH PlyFASTner ANCHORS SHOWN IN TABLE. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
2. ENSURE MINIMUM 2.0" EDGE DISTANCE FOR ANCHORS TO CONCRETE & TO HOLLOW BLOCK. EDGE DISTANCE OF 1" IS ACCEPTABLE FOR ANCHORS TO WOOD.
3. MINIMUM EMBEDMENT SHALL BE AS NOTED IN ANCHOR SCHEDULE. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDES STUCCO, FOAM, BRICK, AND OTHER WALL FINISHES.
4. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS.
5. WHERE EXISTING STRUCTURE IS WOOD FRAMING, EXISTING CONDITIONS MAY VARY. FIELD VERIFY THAT FASTENERS ARE INTO ADEQUATE WOOD FRAMING MEMBERS, NOT PLYWOOD.
6. WHERE ANCHORS FASTEN TO NARROW FACE OF STUD FRAMING, ANCHOR SHALL BE LOCATED IN CENTER OF NOMINAL 2X4 (MIN) WOOD STUDS. WOOD STUDS SHALL HAVE A MINIMUM SPECIFIC GRAVITY OF 0.50.
7. MACHINE SCREWS SHALL HAVE MINIMUM OF $\frac{1}{2}$ " ENGAGEMENT OF THREADS IN BASE ANCHOR AND MAY HAVE EITHER A PAN HEAD, TRUSS HEAD, OR WAFER HEAD ("SIDEWALK BOLT") U.N.O.

Rev./Date	Description
 4/10 2021	ISSUED
 9/17 2021	REVISED TO REFERENCE 2018 IBC
 8/1 2023	REVISED TO REFERENCE 8th Edition FBC (2023)
	
	

DRAWN BY:	JMS
CHECKED BY:	DYK
SCALE:	AS SHOWN
DATE:	10/14/08

