Valid Through: 10/31/2025



## **EVALUATION REPORT**

Originally Issued: 10/17/2023
 OMG, INC.

OMG, INC. 153 Bowles Road Agawam, MA 01001 (800) 518-3569 <u>www.olyfast.com</u> www.fastenmaster.com

#### FASTENMASTER<sup>®</sup> PAMDrive Subfloor Screw (WCYZ) and High Density Subfloor Screw (FDYZ)

CSI Division: 06 00 00 – Wood, Plastics, and Composites CSI Section: 06 05 23 – Wood, Plastic, and Composite Fastenings

#### **1.0 SCOPE OF EVALUATION**

#### 1.1 Compliance to the following codes & regulations:

- 2021, 2018, and 2015 International Building Code<sup>®</sup> (IBC)
- 2021, 2018, and 2015 International Residential Code® (IRC)
- 2023 City of Los Angeles Building Code (LABC) attached Supplement
- 2023 City of Los Angeles Residential Code (LARC) attached Supplement
- 2023 Florida Building Code, Building (FBC, Building) – attached Supplement
- 2023 Florida Building Code, Residential (FBC, Residential) attached Supplement

#### **1.2 Evaluated in accordance with:**

- ICC-ES AC120
- ICC-ES AC233

#### 1.3 Properties assessed:

• Structural

#### 2.0 PRODUCT USE

The FastenMaster<sup>®</sup> PAMDrive Subfloor Screw (WCYZ) and High Density Subfloor Screw (FDYZ) are used in wood structural panel (WSP) horizontal diaphragms. The FastenMaster<sup>®</sup> PAMDrive Subfloor Screw (WCYZ) and High Density Subfloor Screw (FDYZ) are also used as dowel-type threaded fasteners used for wood-to-wood connections. The subfloor screws are collated for delivery through a proprietary installation tool. The PAMDrive and High Density Subfloor Screws are permitted when an engineered design is submitted in accordance with IRC Section R301.1.3.

#### **3.0 PRODUCT DESCRIPTION**

**3.1 WCYZ Screws:** The FastenMaster® PAMDrive Subfloor Screw (WCYZ) described in this report have a flush-mounted flat head with a proprietary 6-lobe drive recess, and are partially threaded with 10 threads per inch as shown in Figure 1 of this report. The length and properties of the WCYZ Screws are shown in Table 1 of this report.

**3.2 FDYZ Screws:** The FastenMaster<sup>®</sup> PAMDrive High-Density Subfloor Screws (FDYZ) described in this report have a countersunk flat head with proprietary 6-lobe drive recess, and are fully threaded with 8 threads per inch as shown in Figure 2 of this report. The length and properties of the FDYZ Screws are shown in Table 1 of this report.

#### 3.3 Materials

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**3.3.1 PAMDrive WCYZ and FDYZ Screws:** The FastenMaster<sup>®</sup> PAMDrive Subfloor Screw (WCYZ) and High Density Subfloor Screw (FDYZ) are manufactured from carbon steel using standard cold-forming process. Fasteners are heat-treated and zinc-plated.

**3.3.2 Wood Members:** Wood side and main members using the WCYZ and FDYZ screws shall consist of sawn lumber with a specific gravity of 0.42 to 0.50 or WSP (OSB or plywood).

#### 4.0 DESIGN AND INSTALLATION

#### 4.1 Design:

**4.1.1 Horizontal Diaphragms:** The FastenMaster<sup>®</sup> PAMDrive Subfloor Screw (WCYZ) and High Density Subfloor Screw (FDYZ) are permitted to fasten WSP sheathing to sawn lumber framing to create floor diaphragms as shown in Table 6 of this report. When used in horizontal diaphragms, the WCYZ and FDYZ screws shown in Tables 5, 6, and 7 of this report are used to attach 2-by wood framing having specific gravity of G=0.42 or G=0.5, and display allowable shear values based on the values for 8d and 10d common nails from Tables 4.2A, 4.2B, and 4.2C of the 2021 SDPWS.

Diaphragm deflection shall be determined in accordance with Section 4.2.3 of the 2021 SDPWS or Section 4.2.2 of the 2015 SDPWS, using the  $G_a$  values prescribed for 8d and 10d common nails in Tables 4.2A, 4.2B, and 4.2C of the SDPWS.

**4.1.2 Prescriptive Fastening:** The PAMDrive Subfloor FDYZ and WCYZ screws listed in Table 1 of this report may be used as a substitute for 8d and 10d common nails indicated in Table 1 of this report, in framing connections prescribed in Table 2304.10.2 of the 2021 IBC and 2304.10.1 of the 2018 and 2015 IBC, or Table R602.3(1) of the IRC.



The product described in this Uniform Evaluation Service (UES) Report has been evaluated as an alternative material, design or method of construction in order to satisfy and comply with the intent of the provision of the code, as noted in this report, and for at least equivalence to that prescribed in the code in quality, strength, effectiveness, fire resistance, durability and safety, as applicable, in accordance with IBC Section 104.11. This document shall only be reproduced in its entirety.

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**4.1.3 Wood-to-Wood Connections:** The connections using The FastenMaster<sup>®</sup> PAMDrive Subfloor Screw (WCYZ) and High Density Subfloor Screw (FDYZ) shall be designed in accordance with the IBC or IRC. Reference withdrawal, pull-through, and lateral design values in this report are for allowable stress design (ASD) and shall be multiplied by the applicable adjustment factors specified in the ANSI/AWC NDS (ANSI/AWC NDS) and this report to determine adjusted design values.

The allowable load for a single-fastener connection in which the fastener is subject to tension is the least of: (a) the reference withdrawal design value given in Table 2 of this report, adjusted by all applicable adjustment factors; (b) the reference head pull-through design value given in Table 2 of this report, adjusted by all applicable adjustment factors; and (c) the allowable fastener tension strength given in Table 1 of this report.

The allowable lateral load for a two-member, single-fastener connection is the lesser of: (a) the reference lateral design values given in Table 3 of this report, adjusted by all applicable adjustment factors, and (b) the allowable fastener shear strength given in Table 1 of this report.

Where the fasteners are subject to combined lateral and withdrawal loads, connections shall be designed in accordance with Section 12.4.1 of the 2018 or 2015 ANSI/AWC NDS.

Connections containing multiple fasteners shall be designed in accordance with Sections 11.2.2 and 12.6 of the 2018 or 2015 ANSI/AWC NDS. When designing a connection, the structural members shall be checked for load-carrying capacity in accordance with Section 11.1.2 of the 2018 or 2015 ANSI/AWC NDS, and local stresses within the connection shall be analyzed for compliance with Appendix E in the ANSI/AWC NDS to ensure the capacity of the connection and fastener group.

**4.1.4 Withdrawal:** Reference withdrawal design values for FastenMaster<sup>®</sup> PAMDrive Subfloor Screw (WCYZ) and High Density Subfloor Screw (FDYZ) are given in Table 2 of this report in pounds per inch of thread penetration into the main member.

**4.1.5 Pull-Through:** Reference pull-through design values for FastenMaster<sup>®</sup> PAMDrive Subfloor Screw (WCYZ) and High Density Subfloor Screw (FDYZ) are given in Table 2 of this report in pounds of thread penetration into the side member.

**4.1.6 Lateral:** Reference lateral design values for FastenMaster<sup>®</sup> PAMDrive Subfloor Screw (WCYZ) and High Density Subfloor Screw (FDYZ) for single shear wood-to-wood connections loaded perpendicular-to-grain or parallel-to-grain are given in Table 3 of this report.

**4.2 Installation:** The FastenMaster<sup>®</sup> PAMDrive Subfloor Screw (WCYZ) and High Density Subfloor Screw (FDYZ) shall be installed in accordance with the manufacturer's published installation instructions, this evaluation report, and all applicable requirements in Section 12.1.5 of the NDS, with no requirement for predrilling. Edge distances, end distances, and fastener spacings shall be sufficient to prevent splitting of the wood, or as required by Table 4 of this report, whichever is more restrictive.

**4.3 Special Inspection:** Special inspections are required in accordance with Section 1705.12 of the 2021 IBC and Section 1705.11 of the 2018 and 2015 IBC, as applicable. When required, a statement of special inspections shall be submitted to the building official in accordance with Section 1704.3 of the IBC.

**4.3.1** High load diaphragms in Table 7 of this report shall comply with the special inspection provisions in accordance with Section 1705.5.1 of the IBC.

#### 5.0 LIMITATIONS

Use of the FastenMaster<sup>®</sup> PAMDrive Subfloor Screw (WCYZ) and High Density Subfloor Screw (FDYZ) recognized in this report is subject to the following limitations:

**5.1** The screws shall be manufactured, identified, and installed in accordance with this report, the manufacturer's published installation instructions, and the applicable code. A copy of the manufacturer's published installation instructions shall be available at the job site during installation. Where conflicts occur, the more restrictive shall prevail.

**5.2** Calculations and details showing compliance with this report shall be submitted to the building official. The calculations and details shall be prepared by a registered design professional where required by the statutes of the jurisdiction in which the project is to be constructed.

**5.3** Connections shall be designed using all applicable load reduction adjustment factors as noted in Tables 2 and 3 of this report and the applicable codes.

**5.4** Use of Subfloor Screws in diaphragms with I-joist framing, where the I-joist framing has not been recognized for use in diaphragms, is outside the scope of this report.

**5.5** Use of Subfloor Screws in diaphragms with structural composite lumber (SCL) framing, where the SCL framing has not been qualified for use in lateral force resisting system in accordance with the Acceptance Criteria for Wood-based Studs (AC202), is outside the scope of this report.

**5.6** Use of these subfloor screws, where corrosion resistance is required and when the fasteners are installed in chemically treated wood, is beyond the scope of this report.



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**5.7** Use of Subfloor Screws in shear and braced walls is outside the scope of this report.

**5.8** Use of the Subfloor Screws in wet service conditions is beyond the scope of this report.

**5.9** The FastenMaster<sup>®</sup> PAMDrive Subfloor Screw (WCYZ) and High Density Subfloor Screw (FDYZ) are produced by OMG, Inc. under an approved quality control program.

#### 6.0 SUBSTANTIATING DATA

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**6.1** Data in accordance with Acceptance Criteria for Woodframe Horizontal Diaphragms, Vertical Shear Walls, and Braced Walls with Alternative Fasteners (ICC-ES AC120), approved February 2017, (editorially revised January 2021).

**6.2** Data in accordance with Acceptance Criteria for Dowel-Type Threaded Fasteners Used in Wood (ICC-ES AC233), approved February 2022.

**6.3** Test reports are from laboratories in compliance with ISO/IEC 17025.

#### 7.0 IDENTIFICATION

The packaging for the FastenMaster<sup>®</sup> PAMDrive Subfloor Screw (WCYZ) and High Density Subfloor Screw (FDYZ) is labeled with the manufacturer's name (OMG, Inc.), the product name [FastenMaster<sup>®</sup> PAMDrive Subfloor Screw (WCYZ) and High Density Subfloor Screw (FDYZ)], the fastener designation, and the evaluation report number (ER-389). The IAPMO UES Mark of Conformity may also be used as shown below:



IAPMO UES ER-389

#### 8.0 STATEMENT OF RECOGNITION

This evaluation report describes the results of research completed by IAPMO Uniform Evaluation Service on FastenMaster<sup>®</sup> PAMDrive Subfloor Screw (WCYZ) and High Density Subfloor Screw (FDYZ) to assess conformance to the codes shown in Section 1.1 of this report and serves as documentation of the product certification. Products are manufactured under a quality control program with periodic inspections under the supervision of IAPMO UES.

For additional information about this evaluation report please visit www.uniform-es.org or email us at info@uniform-es.org



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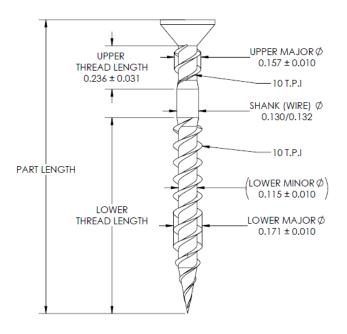
		Screw Specifications (inches)						ninal Allowable Iding Fastener			
Fastener Designation	Overall Length <sup>1</sup>	Thread Length <sup>2</sup>	RootShankOutsideHeadYieldDiameterDiameterThreadDiameter,Strength		Root Shank Diameter, Diameter,		Fastener Strength (lbf)				
	8	8			Diameter	D <sub>H</sub>	(psi) <sup>3</sup>	Tensile	Shear		
FDYZ8134	1.75	1.54	0.111	0.128	0.173		230,000	740	550		
FDYZ8200	2.00	1.82	0.111	0.128	0.175		230,000	740	550		
WCYZ8134	1.75	1.173				0.325					
WCYZ8200	2.00	1.34	0.115	0.131	0.171	0.525	210,000	759	561		
WCYZ8212	2.50	1.675	0.115	0.151	0.171				501		
WCYZ8300	3.00	2.00									

 TABLE 1 – Fastener Dimensions and Strengths

<sup>1</sup> The fastener is designed with a countersinking type head; the overall fastener length is measured from the top of the head to the bottom of the tip.

<sup>2.</sup> Thread length includes a tapered tip, as exhibited in Figure 1 of this report.

<sup>3.</sup> Bending yield strength was determined in accordance with methods specified in ASTM F1575 and based on the root diameter.



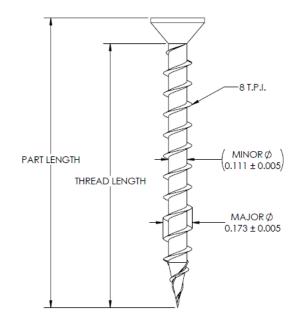


FIGURE 1: FastenMaster<sup>®</sup> PAMDrive WCYZ Screw

FIGURE 2: FastenMaster<sup>®</sup> PAMDrive FDYZ Screw



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#### TABLE 2 – Reference Withdrawal and Pull-Through Design Values for Wood-to-Wood Connections <sup>1,2,5</sup>

Fratewar	Three d	Design V	drawal Value "W" nch) <sup>3,4</sup>	Pull-Through Design Values (lb.)						
Fastener Designation	Fastener Length	Thread Length	DF	SPF	OSB/Pl Rated Sh		DF (0.50)	SPF (0.42)	DF (0.50)	SPF (0.42)
			(0.50)	(0.42)	7/16- inch	/16- 23/32- <sup>3</sup> / <sub>4</sub> -inch		ch Face	$1\frac{1}{2}$ -inch Face Grain	
FDYZ8134	1.75	1.573	128	96	60	104	95	78	215	158
FDYZ8200	2.00	1.823	120	90	00	104	75	10	215	156
WCYZ8134	1.75	1.167								
WCYZ8200	2.00	1.333	161	84	54	108	101	79	193	144
WCYZ8212	2.50	1.667	101	161 84	54	108	101	/9	193	144
WCYZ8300	3.00	2.00								

<sup>1.</sup> Values shall be multiplied by all applicable adjustment factors as set forth in the ANSI/AWC NDS.

<sup>2</sup> The reference withdrawal design values are in pounds per inch of the thread penetration into the main member.

<sup>3</sup> The reference withdrawal design values shall be multiplied by the length of thread penetration in the main member. Length includes tapered tip. 4. Specific Gravity shall be the assigned specific gravity for sawn lumber per Table 12.3.3A or 12.3.3B of the 2018 and 2015 ANSI/AWC NDS

(Table 11.3.3A or 11.3.3B of the 2012 ANSI/AWC NDS).

<sup>5.</sup> The allowable tensile strength of the fasteners shall not be exceeded



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Fastener Designation	Fastener Length	Thread Length	Side Member (inches)	Main Member (inches)	Single Shear Connecti	n Value (Z) for Two Member ons (lbs.)
					SPF (0.42)	DF (0.50)
FDYZ8134	1.75	1.573	3⁄4	11/2	85	125
FDYZ8200	2.00	1.823	3⁄4	11/2	85	125
WCYZ8134	1.75	1.167	3⁄4	11/2	81	113
WCYZ8200	2.00	1.333	3⁄4	11/2	81	113
WCYZ8212	2.50	1.667	11/2	11/2	105	169
WCYZ8300	3.00	2.00	11/2	11/2	105	169

#### TABLE 3 – Reference Lateral (Z) Design Values for Wood-to-Wood Connections <sup>1,2,3,4</sup>

<sup>1.</sup> Values shall be multiplied by all applicable adjustment factors as set forth in the ANSI/AWC NDS.

<sup>2</sup> Minimum fastener penetration into the main member shall be 1 <sup>1</sup>/<sub>2</sub>-inches.

<sup>3</sup> Specific Gravity shall be the assigned specific gravity for sawn lumber per Table 12.3.3A or 12.3.3B of the 2018 and 2015 ANSI/AWC NDS.

<sup>4.</sup> The allowable tensile strength of the fasteners shall not be exceeded.

		OR SPACING hes) <sup>1</sup>	
		SG < 0.50	SG ≥ 0.50
	Loading parallel to grain	2	23⁄4
Minimum end distance	Loading perpendicular to grain	11/2	2
Minimum adap distance	Loading parallel to grain	3⁄4	1
Minimum edge distance	Loading perpendicular to grain	11/2	11/2
Minimum spacing between in-	Loading parallel to grain	2	2
line fasteners in a row	Loading perpendicular to grain	11/2	11/2
Minimum spacing between	Perpendicular to grain direction	3⁄4	1
staggered rows	Parallel to grain direction	3⁄4	1

#### TABLE 4 – Connection Geometry Using PAMDrive Subfloor Screws

<sup>1</sup>End distances, edge distances, and fastener spacings shall be sufficient to prevent splitting of the wood, or as required by this table, whichever is the more restrictive.

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TABLE 5 – Allowable Unit Shear Strength, and Diaphragm Shear Stiffness, Ga, for Wind or Seismic Loading	
(lb/ft) for Blocked WSP Horizontal Diaphragms with Framing of Douglas Fir-Larch or Southern Pine <sup>1,2,3,4</sup>	

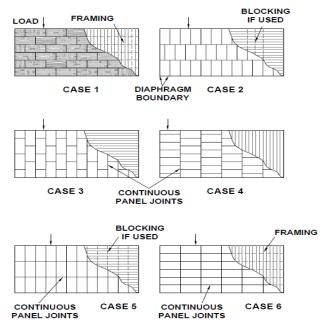
	DIUCKCU		untai Diapin	agms	with 1	i i am	ing vi	Doug	,145 1 1			outile			
			Minimum Nominal		-	<b>U</b> \		-	0		· ·	/-		ontinuous panel Cases 5 & 6)	
	FDYZ		Width of		<u>6</u>		o iouu	4	<u> </u>	$\frac{2^{1/2}}{2}$			$\frac{1}{2}$		
C1	or	Minimum	Screw Face		•	crew s	macing	(in) a	t other	panel e		Cases 1	23 & (4)		
Sheathing	WCYZ	Nominal	at		6		paome	<u>, (111.) u</u> 6		punere	4	2000 1	,2,3, 001	3	
Grade	screw length	Panel Thickness	Adjoining	Va	G	a	Va		a	Va		<b>B</b> a	Vna	G	ja
	(inches)	THICKNESS	Panel Edges and Boundaries		OSB	PL Y		OSB	PLY		OSB	PLY		OSB	PLY
	11/	1½ <sup>3</sup> / <sub>8</sub>	2	270	14	11	360	9.0	7.5	530	13	10	600	21	15
G 11	1 1/2		3	300	12	10	400	7.5	6.5	600	10	9.0	675	18	13
Structural I	21/2	157	2	320	24	17	425	15	12	640	20	15	730	31	21
	3	<sup>15</sup> / <sub>32</sub>	3	360	20	15	480	12	9.5	720	16	13	820	26	18
		3/8	2	240	15	11	320	9.5	7.5	480	13	9.5	545	21	13
	11/2	-/8	3	270	12	9.5	360	7.5	6.0	540	11	8.5	610	18	12
Sheathing	172	<sup>15</sup> / <sub>32</sub>	2	270	13	9.5	360	7.5	6.5	530	11	8.5	600	19	13
and		/32	3	300	10	8.5	400	6.0	5.5	600	9.0	7.5	675	15	11
Single-	21/	157	2	290	25	15	385	15	11	575	21	14	655	33	18
Floor	21/2	<sup>15</sup> / <sub>32</sub>	3	325	21	14	430	12	9.5	650	17	12	735	28	16
	2	197	2	320	21	14	425	13	9.5	640	18	12	730	28	17
	3	<sup>19</sup> / <sub>32</sub>	3	360	17	12	480	10	8.0	720	14	11	820	24	15

<sup>1</sup>For general diaphragm construction, it shall be in accordance with Sections 4.2.7 and 4.2.8 of the 2021 SDPWS and Sections 4.2.6 and 4.2.7 of the 2015 SDPWS, as applicable.

<sup>2</sup>For species and grades of framing other than DF or SP, reduced nominal unit shear capacities shall be determined by multiplying the tabulated nominal unit shear capacity by the Specific Gravity Adjustment Factor = [1-(0.5-G)], where G= Specific Gravity of the framing lumber per Table 12.3.3A of the 2018 and 2015 ANSI/AWC NDS. The Specific Gravity Adjustment Factor shall not be greater than 1.0.

<sup>3</sup> For shear loads of normal or permanent load duration as defined by the ANSI/AWC NDS, the values in the table shall be multiplied by 0.63 or 0.56, respectively.

<sup>4</sup> Refer to Figure 3 for Diaphragm Case Patterns.



#### FIGURE 3 – DIAPHRAGM CASE PATTERNS



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# TABLE 6 – Allowable Unit Shear Strength, V<sub>a</sub> and Diaphragm Shear Stiffness, G<sub>a</sub>, for Wind or Seismic Loading (lb/ft) for Blocked WSP Horizontal Diaphragms Utilizing Multiple Rows of Fasteners (High Load Diaphragms<sup>1,2,3,4</sup>

			Minimum											es), at co			
FDYZ or	FDYZ		Nominal		panel edges parallel to load (Cases 3 & 4), and at all panel edges (Cases 5 & 6)												
		Minimum	Width of	т·		4			4			2- 1/2			2- 1/2		
Sheathing	WCYZ	Nominal	Screw Face	Lines	Screw spacing (in.) at other panel edges (Cases 1,2,3, &4)												
Grade	screw	Panel	at Adjoining	of Screws		6			4			4			3		
	length	Thickness	Panel	Screws	Va	Ģ	B <sub>a</sub>	Va		Ga	Va	(	a	Va	G	a 🗌	
	(inches		Edges and			OSB	PLY		OS	PLY		OSB	PLY		OSB	PLY	
			Boundaries			OSD	111		В	ILI		ODD	111		Obb	1.2.1	
			3	2	605	40	24	815	53	28	875	50	27	1150	56	29	
			<sup>15</sup> / <sub>32</sub>	4	2	700	33	21	915	48	27	1005	44	25	1290	51	28
			4	3	875	50	27	1220	61	30	1285	59	30	1395	70	32	
				3	2	670	36	23	880	52	29	965	47	27	1255	54	29
Structural I	3		4	2	780	29	20	990	46	27	1110	40	25	1440	48	27	
				4	3	965	47	27	1320	60	31	1405	57	30	1790	64	32
			<sup>23</sup> / <sub>32</sub>	3	2	730	33	22	955	50	29	1050	45	27	1365	53	30
				<sup>23</sup> / <sub>32</sub>	<sup>23</sup> / <sub>32</sub>	4	2	855	26	19	1070	43	27	1210	37	24	1565
			4	3	1050	45	27	1430	59	32	1525	56	31	1800	68	34	
			3	2	525	43	21	725	55	23	765	53	23	1010	58	24	
		<sup>15</sup> / <sub>32</sub>	4	2	605	36	19	815	50	22	875	46	21	1105	55	23	
Sheathing			4	3	765	53	23	1085	62	24	1130	61	24	1195	72	26	
and	2		3	2	650	34	19	860	49	23	935	45	22	1225	52	23	
Single- 3	3	<sup>19</sup> / <sub>32</sub>	4	2	755	27	16	965	43	21	1080	37	20	1370	46	22	
Floor	Floor		4	3	935	45	22	1290	57	24	1365	55	24	1485	68	26	
			3	2	710	30	18	935	46	23	1020	42	22	1335	50	24	
		<sup>23</sup> / <sub>32</sub>	4	2	825	24	16	1050	40	21	1175	34	20	1445	45	23	
			4	3	1020	42	22	1400	56	25	1480	53	25	1565	71	28	

<sup>1</sup>. For general diaphragm construction, it shall be in accordance with Sections 4.2.7 and 4.2.8 of the 2021 SDPWS and Sections 4.2.6 and 4.2.7 of the 2015 SDPWS, as applicable.

<sup>2</sup> For species and grades of framing other than DF or SP, reduced nominal unit shear capacities shall be determined by multiplying the tabulated nominal unit shear capacity by the Specific Gravity Adjustment Factor = [1-(0.5-G)], where G= Specific Gravity of the framing lumber per Table 12.3.3A of the 2018 and 2015 ANSI/AWC NDS. The Specific Gravity Adjustment Factor shall not be greater than 1.0.

<sup>3</sup> For shear loads of normal or permanent load duration as defined by the ANSI/AWC NDS, the values in the table shall be multiplied by 0.63 or 0.56, respectively.

<sup>4</sup> Refer to Figure 3 for Diaphragm Case Patterns.



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TABLE 7 – Allowable Unit Shear Strength, and Diaphragm Shear Stiffness, G<sub>a</sub>, for Wind or Seismic Loading (lb/ft) for Unblocked WSP Horizontal Diaphragms with Framing of Douglas Fir-Larch or Southern Pine<sup>1,2,3,4</sup>

Sheathing Grade	FDYZ or Minimu WCYZ Nomina screw Panel		Minimum Nominal Width of Screw Face at	Supported Panel Edges Screw spacing (in.) at other panel edges (Cases 1,2,3, &4 e Case 1 Cases 2,3,4,5,6							
	length (inches)	Thickness	Adjoining Panel Edges and	Va	Ga		Va		Ga		
			Boundaries		OSB	PLY		OSB	PLY		
	1½ 3	3.1	2	240	8.5	7.0	180	6.0	4.5		
<u>C</u> ( ( 1 I		<sup>3</sup> / <sub>8</sub>	3	265	7.5	6.0	200	5.0	4.0		
Structural I		15/32	2	285	14	10	215	9.5	7.0		
			3	320	12	9.0	240	8.0	6.0		
	11/2	<sup>3</sup> / <sub>8</sub>	2	215	9.0	6.5	160	6.0	4.5		
	172	/8	3	240	7.5	5.5	180	5.0	3.5		
Sheathing	2	<sup>15</sup> / <sub>32</sub>	2	240	7.5	5.5	180	5.0	4.0		
and	Z	/32	3	265	6.5	5.0	200	4.0	3.5		
Single-	21/2	157	2	255	15	9.0	190	10	6.0		
Floor	∠1⁄2	<sup>15</sup> / <sub>32</sub>	3	290	12	8.0	215	8.0	5.5		
	3	197	2	285	13	8.5	215	8.5	5.5		
	3	<sup>19</sup> / <sub>32</sub>	3	320	10	7.5	240	7.0	5.0		

<sup>1</sup>For general diaphragm construction, it shall be in accordance with Sections 4.2.7 and 4.2.8 of the 2021 SDPWS and Sections 4.2.6 and 4.2.7 of the 2015 SDPWS, as applicable.

<sup>2</sup> For species and grades of framing other than DF or SP, reduced nominal unit shear capacities shall be determined by multiplying the tabulated nominal unit shear capacity by the Specific Gravity Adjustment Factor = [1-(0.5-G)], where G= Specific Gravity of the framing lumber per Table 12.3.3A of the 2018 and 2015 ANSI/AWC NDS. The Specific Gravity Adjustment Factor shall not be greater than 1.0.

<sup>3</sup> For shear loads of normal or permanent load duration as defined by the ANSI/AWC NDS, the values in the table shall be multiplied by 0.63 or 0.56, respectively.

<sup>4</sup> Refer to Figure 3 for Diaphragm Case Patterns.



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### CITY OF LOS ANGELES SUPPLEMENT

OMG, INC. 153 Bowles Road Agawam, MA 01001 (800) 518-3569 <u>www.olyfast.com</u> <u>www.fastenmaster.com</u>

#### FASTENMASTER<sup>®</sup> PAMDrive Subfloor Screw (WCYZ) and High Density Subfloor Screw (FDYZ)

#### CSI Division: 06 00 00 – Wood, Plastics, and Composites CSI Section: 06 05 23 – Wood, Plastic, and Composite Fastenings

#### **1.0 RECOGNITION**

The FastenMaster<sup>®</sup> PAMDrive Subfloor Screw (WCYZ) and High Density Subfloor Screw (FDYZ) recognized in ER-389 and this supplemental report have been evaluated for use as dowel-type threaded fasteners used for wood-to-wood connections. The fasteners have been evaluated for structural performance properties, subject to the requirements in ER-389 and this supplemental report. The FastenMaster<sup>®</sup> PAMDrive Subfloor Screw (WCYZ) and High Density Subfloor Screw (FDYZ)<sup>®</sup> comply with the intent of the provisions of the following codes and regulations:

- 2023 City of Los Angeles Building Code (LABC)
- 2023 City of Los Angeles Residential Code (LARC)

#### 2.0 LIMITATIONS

Use of the FastenMaster<sup>®</sup> PAMDrive Subfloor Screw (WCYZ) and High Density Subfloor Screw (FDYZ) recognized in ER-389 and this report supplement is subject to the following limitations in addition to the limitations shown in ER-389:

**2.1** For use under the 2023 LABC and LARC, the design, installation, conditions of use, and identification of the FastenMaster<sup>®</sup> PAMDrive Subfloor Screw (WCYZ) and High Density Subfloor Screw (FDYZ) shall be in accordance with the 2021 International Building Code and 2021 International Residential Code as described in ER-389.

**2.2** Construction details and specifications verifying compliance with the FastenMaster<sup>®</sup> PAMDrive Subfloor Screw (WCYZ) and High Density Subfloor Screw (FDYZ) shall be indicated on the approved plans. The calculations shall be prepared, stamped, and signed by a California registered design professional.

**2.3** Design, installation, and inspection shall be in accordance with LABC Chapters 16 and 17, as applicable, due to local amendments to these chapters.

**2.4** Reference lateral and withdrawal design values in ER-389 are for ASD and shall be multiplied by all applicable adjustment factors specified in the ANSI/AWC NDS.

**2.5** Structural members forming the connection shall be designed in accordance with the 2023 LABC.

**2.6** When designing a connection, the structural members shall be checked for load-carrying capacity in accordance with Section 11.1.2 of ANSI/AWC NDS 2018 and 2015.

2.7 This supplement expires concurrently with ER-389.

For additional information about this evaluation report please visit www.uniform-es.org or email us at info@uniform-es.org





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### FLORIDA SUPPLEMENT

OMG, INC. 153 Bowles Road Agawam, MA 01001 (800) 518-3569 <u>www.olyfast.com</u> <u>www.fastenmaster.com</u>

#### FASTENMASTER<sup>®</sup> PAMDrive Subfloor Screw (WCYZ) and High Density Subfloor Screw (FDYZ)

CSI Division: 06 00 00 – Wood, Plastics, and Composites CSI Section: 06 05 23 – Wood, Plastic, and Composite Fastenings

#### **1.0 RECOGNITION**

The FastenMaster<sup>®</sup> PAMDrive Subfloor Screw (WCYZ) and High Density Subfloor Screw (FDYZ) recognized in ER-389 and this supplemental report have been evaluated for use as dowel-type threaded fasteners used for wood-to-wood connections. The screws have been evaluated for structural performance properties, subject to the requirements in ER-389 and this supplemental report. The FastenMaster<sup>®</sup> PAMDrive Subfloor Screw (WCYZ) and High Density Subfloor Screw (FDYZ) comply with the intent of the provisions of the following codes and regulations:

- 2023 Florida Building Code, Building (FBC, Building)
- 2023 Florida Building Code, Residential (FBC, Residential)

#### 2.0 LIMITATIONS

Use of the FastenMaster<sup>®</sup> PAMDrive Subfloor Screw (WCYZ) and High Density Subfloor Screw (FDYZ) recognized in ER-389 and this report supplement is subject

to the following limitations in addition to the limitations shown in ER-389:

**2.1** The design and installation of The FastenMaster<sup>®</sup> PAMDrive Subfloor Screw (WCYZ) and High Density Subfloor Screw (FDYZ) recognized in this supplement shall be in accordance with the 2021 International Building Code and the 2021 International Residential Code as described in ER-389.

**2.2** Load combinations shall be in accordance with Section 1605.2 of the FBC, Building, as applicable.

**2.3** The FastenMaster<sup>®</sup> PAMDrive Subfloor Screw (WCYZ) and High Density Subfloor Screw (FDYZ) shall be manufactured, identified, and installed in accordance with ER-389 and the manufacturer's published installation instructions. A copy of the manufacturer's published installation instructions shall be available at the job site during installation. Where conflicts occur, the more restrictive shall prevail.

**2.4** For products falling under Section (5)(d) of Florida Rule 61G20-3.008, verification is required that the report holder's quality assurance program is audited by a quality assurance entity, approved by the Florida Building Commission (or the building official when the report holder does not possess an approval by the Commission), to provide oversight and determine that the products are being manufactured as described in this evaluation report to establish continual product performance.

**2.5** This supplement expires concurrently with ER-389.

For additional information about this evaluation report please visit www.uniform-es.org or email us atinfo@uniform-es.org