Matdan®

QUALITY FASTENERS™

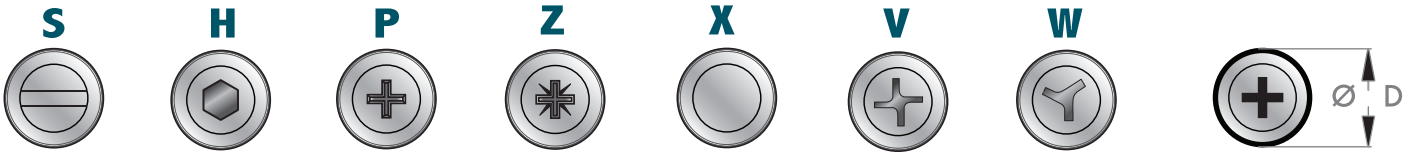
High Profile Captive Screws
MHL - Floating
MHF - Flare-In

HIGH PROFILE CAPTIVE SCREWS - FLOATING

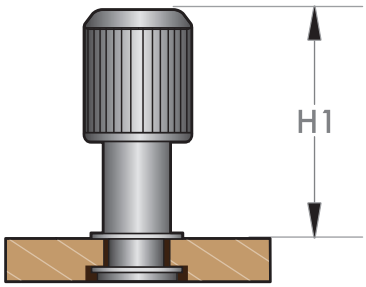
Matdan MHL series high profile captive screws are ideal for front panel applications where easy access to work panels is important. Replaces Alcoa® FRB7500 and FTC™ FT1100 series.

- Short lead times
- Aerospace and military quality
- Retractable
- Corrosion resistant
- Radial Float for misalignment
- Permanent retention
- DFARS compliant

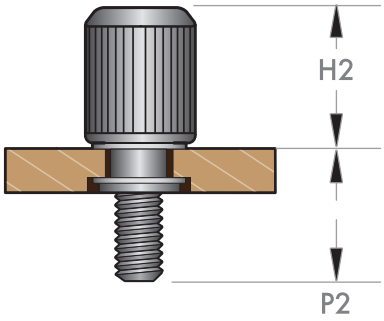
DRIVE CODE

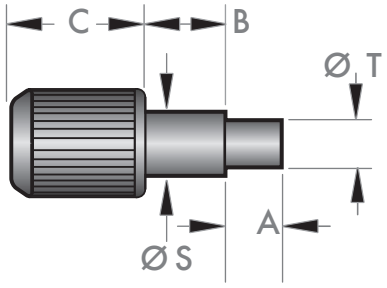


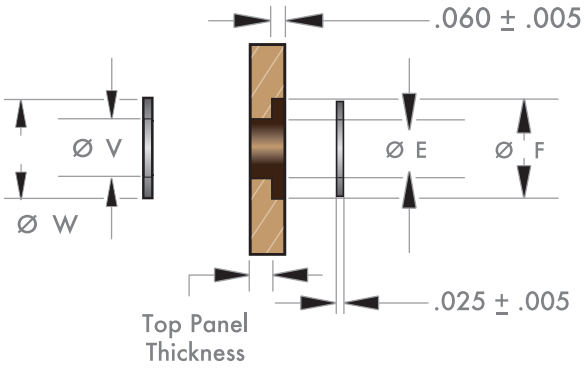
UNFASTENED



FASTENED







Matdan®
QUALITY FASTENERS™

ISO 9001 AS9100 CERTIFIED QUALITY MANAGEMENT SYSTEM

Part Number Callout

MHL	—	THREAD CODE	DRIVE CODE	SCREW LENGTH CODE	SCREW MATERIAL CODE	—	FERRULE LENGTH CODE	FERRULE MATERIAL CODE	—	KNOB MATERIAL CODE	KNOB FINISH CODE	OPTIONAL: WAVE WASHER CODE (see pg.6)	OPTIONAL: D-DRY LUBE L-LOCKING PATCH

THREAD CODE	B	C	D	E +.004 -.001	F	S ±.005	T ±.005	V +.004 -.001	W ±.010	H1	H2
04, 04F, M3	0.265	0.374	0.325	0.250	0.390	0.206	0.177	0.185	0.309	0.664	0.411
06, 06F, 35	0.280	0.379	0.356	0.272	0.406	0.241	0.202	0.209	0.333	0.684	0.424
08, 08F, M4	0.385	0.489	0.420	0.281	0.468	0.258	0.215	0.223	0.385	0.899	0.536
10, 10F, 10C, M5	0.427	0.529	0.451	0.316	0.500	0.297	0.250	0.257	0.415	0.981	0.571
12, 12F, 12C, M6	0.428	0.534	0.531	0.386	0.578	0.371	0.313	0.323	0.495	0.987	0.571

DRIVE CODE	Drive Type
S	Slot Per ANSI B18.6.3
H	Hex Socket per ANSI B18.3
P	Cross Recess per NASM9006
Z	Recess per Type 1A ANSI B18.6.3
X	No Recess
V	Recess per NASM 33781
W	Recess per NAS 4000

THREAD CODE DESCRIPTION			
4, 4F	.112-40 UNC-3A	M3	M3 x .5-4h6h
6, 6F	.138-32 UNC-3A	M3 .5	M3.5 x .6-4h6h
8, 8F	.164-32 UNC-3A	M4	M4 x .7-4h6h
10, 10F	.190-32 UNF-3A	M5	M5 x .8-4h6h
12, 12F	.250-28 UNF-3A	M6	M6 x 1.0-4h6h
10C	.190-24 UNC-3A	12C	.250-20 UNC-3A
Single 4,6,8,10,12 - Single Coarse 10C,12C - Double 4F,6F - Quad 8F,10F,12F			

SCREW LENGTH CODE NOTE: Add .125" to Length for each incremental screw length.

	Size 04, M2.5, M3		Size 06, 35		Size 08, M4		Size 10, M5		Size 12, M6	
	L +.025 -.015	P2 Ref.	L +.025-.015	P2 Ref.	L +.025-.015	P2 Ref.	L +.025-.015	P2 Ref.	L +.025-.015	P2 Ref.
1	0.639	0.228	0.650	0.226	0.685	0.149	0.832	0.261	0.745	0.174
2	0.764	0.353	0.775	0.351	0.810	0.274	0.957	0.386	0.870	0.299
3	0.889	0.478	0.900	0.476	0.935	0.399	1.082	0.511	0.995	0.424
4	1.014	0.603	1.025	0.601	1.060	0.524	1.207	0.636	1.120	0.549
5	1.139	0.728	1.150	0.726	1.185	0.649	1.332	0.761	1.245	0.674
6	1.264	0.853	1.275	0.851	1.310	0.774	1.457	0.886	1.370	0.799

SCREW MATERIAL CODE	H	A-286 Stainless Steel	S	302 Stainless Steel

FERRULE LENGTH CODE Note: Add .070" to L, C, H1 and H2 when using the Hex Drive

	Top Panel Thickness	A± .005
1	.020 -.031	0.125
2	.032 -.093	0.187
3	.094 -.155	0.250
4	.156 -.217	0.312
5	.218 -.279	0.375
6	.280 -.341	0.437

Spring Material	302 Stainless Steel
Washer Material	301 Stainless Steel or equivalent

FERRULE MATERIAL CODE	
A	6061-T6 Aluminum
S	304 Stainless Steel

KNOB MATERIAL CODE	
A	6061-T6 Aluminum or equivalent
S	303e Stainless Steel

KNOB FINISH CODE	
N	Natural
B	Black

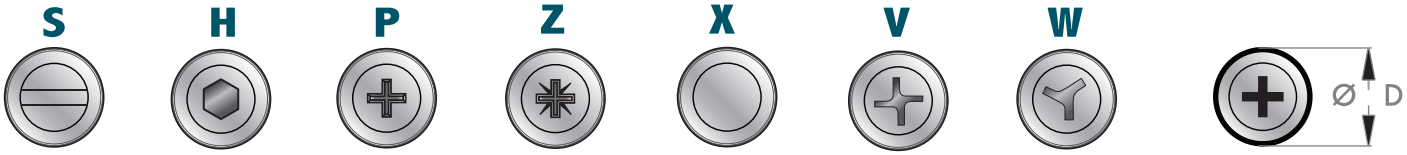
CAGE CODE: 53RM7

HIGH PROFILE CAPTIVE SCREWS - FLARE-IN

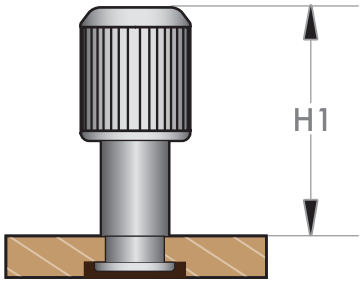
Matdan MHF series high profile captive screws are ideal for front panel applications where easy access to work panels is important. Replaces Alcoa® DRB7500 series.

- Short lead times
- Aerospace and military quality
- Retractable
- Corrosion resistant
- Permanent retention
- DFARS compliant

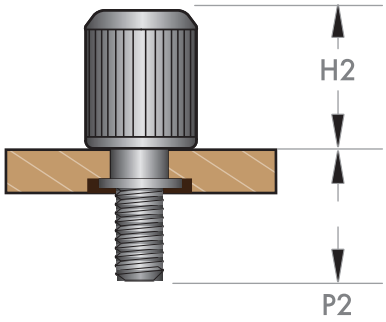
DRIVE CODE

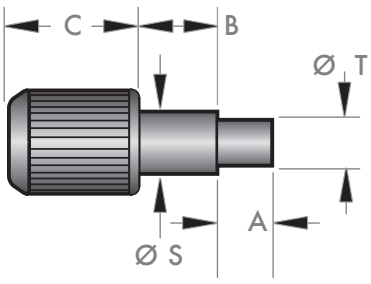


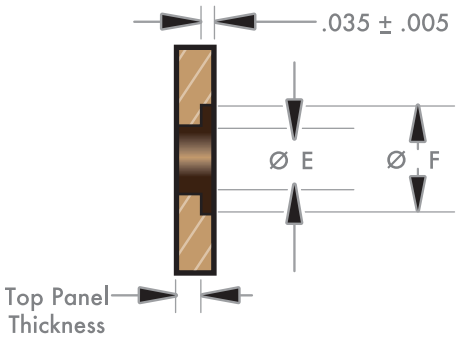
UNFASTENED



FASTENED







Matdan®
QUALITY FASTENERS™

ISO 9001 AS9100 CERTIFIED QUALITY MANAGEMENT SYSTEM

Part Number Callout

MHF	—	THREAD CODE	DRIVE CODE	SCREW LENGTH CODE	SCREW MATERIAL CODE	—	FERRULE LENGTH CODE	FERRULE MATERIAL CODE	—	KNOB MATERIAL CODE	KNOB FINISH CODE	OPTIONAL: WAVE WASHER CODE (see pg.6)	OPTIONAL: D-DRY LUBE L-LOCKING PATCH

THREAD CODE	B	C	D	E +.004 -.001	F	S ±.005	T ±.005	H1	H2
04, 04F, M3	0.265	0.374	0.325	0.187	0.281	0.206	0.177	0.651	0.386
06, 06F, 35	0.280	0.379	0.356	0.209	0.312	0.241	0.202	0.669	0.399
08, 08F, M4	0.385	0.489	0.420	0.223	0.343	0.258	0.215	0.891	0.511
10, 10F, 10C, M5	0.427	0.529	0.451	0.257	0.375	0.297	0.250	0.966	0.546
12, 12F, 12C, M6	0.428	0.534	0.531	0.323	0.437	0.371	0.313	0.971	0.546

DRIVE CODE	Drive Type
S	Slot Per ANSI B18.6.3
H	Hex Socket per ANSI B18.3
P	Cross Recess per NASM9006
Z	Recess per Type 1A ANSI B18.6.3
X	No Recess
V	Recess per NASM 33781
W	Recess per NAS 4000

THREAD CODE DESCRIPTION			
4, 4F	.112-40 UNC-3A	M3	M3 x .5-4h6h
6, 6F	.138-32 UNC-3A	M3 .5	M3.5 x .6-4h6h
8, 8F	.164-32 UNC-3A	M4	M4 x .7-4h6h
10, 10F	.190-32 UNF-3A	M5	M5 x .8-4h6h
12, 12F	.250-28 UNF-3A	M6	M6 x 1.0-4h6h
10C	.190-24 UNC-3A	12C	.250-20 UNC-3A
Single 4,6,8,10,12 - Single Coarse 10C,12C - Double 4F,6F - Quad 8F,10F,12F			

SCREW LENGTH CODE NOTE: Add .125" to Length for each incremental screw length.

	Size 04, M2.5, M3		Size 06, 35		Size 08, M4		Size 10, M5		Size 12, M6	
	L +.025 -.015	P2 Ref.	L +.025-.015	P2 Ref.	L +.025-.015	P2 Ref.	L +.025-.015	P2 Ref.	L +.025-.015	P2 Ref.
1	0.639	0.253	0.650	0.251	0.685	0.174	0.832	0.286	0.745	0.199
2	0.764	0.378	0.775	0.376	0.810	0.299	0.957	0.411	0.870	0.324
3	0.889	0.503	0.900	0.501	0.935	0.424	1.082	0.536	0.995	0.449
4	1.014	0.628	1.025	0.626	1.060	0.549	1.207	0.661	1.120	0.574
5	1.139	0.753	1.150	0.751	1.185	0.674	1.332	0.786	1.245	0.699
6	1.264	0.878	1.275	0.876	1.310	0.799	1.457	0.911	1.370	0.824

SCREW MATERIAL CODE	H	A-286 Stainless Steel	S	302 Stainless Steel

FERRULE LENGTH CODE Note: Add .070" to L, C, H1 and H2 when using the Hex Drive

	Top Panel Thickness	A± .005
0	.030 -.055	0.100
1	.031 -.062	0.125
2	.063 -.125	0.187
3	.125 -.187	0.250
4	.188 -.250	0.312
5	.251 -.312	0.375
6	.313 -.375	0.437

Spring Material	302 Stainless Steel
Washer Material	301 Stainless Steel or equivalent

FERRULE MATERIAL CODE	
A	6061-T6 Aluminum
S	304 Stainless Steel

KNOB MATERIAL CODE	
A	6061-T6 Aluminum or equivalent
S	303e Stainless Steel

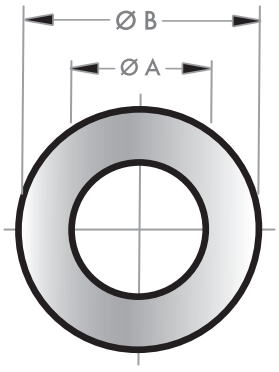
KNOB FINISH CODE	
N	Natural
B	Black

WAVE WASHERS

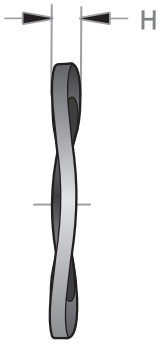
WAVE WASHER CODE			
Washer Code	Quantity	Material	Finish
1	1	17-7 PH Stainless Steel	Passivate Per AMS-QQ-P-35
2	1	17-7 PH Stainless Steel	CAD Plate per AMS-QQ-P-416, Type II, Class 2 (Yellow)
3	1	1075 Spring Steel or Equivalent	CAD Plate per AMS-QQ-P-416, Type I, Class 2 (Clear)
4	1	1075 Spring Steel or Equivalent	CAD Plate per AMS-QQ-P-416, Type II, Class 2 (Yellow)
5	2	1075 Spring Steel or Equivalent	CAD Plate per AMS-QQ-P-416, Type II, Class 2 (Yellow)

SIZE CODE					
Size Code	ØA ±.010	ØB ±.010	H	# of Waves	Thickness*
04,M3	0.221	0.375	0.045	3	0.012
06, 35	0.265	0.432	0.045	3	0.015
08,M4	0.265	0.430	0.045	3	0.012
10, M5	0.312	0.463	0.031	4	0.015
12, M6	0.385	0.500	0.050	3	0.010

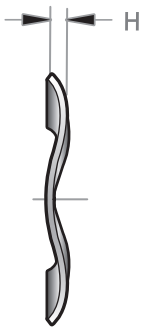
*Add thickness to MHF or MHL chart dimension H2.
–Subtract Thickness from MHF or MHL chart dimension P2.



3 WAVE



4 WAVE



Headquarters:
Matdan Corporation
Cincinnati, Ohio 45242, USA
Tel: 513 - 794 - 0500
Fax: 513 - 794 - 0651
E-mail: sales@matdanfasteners.com