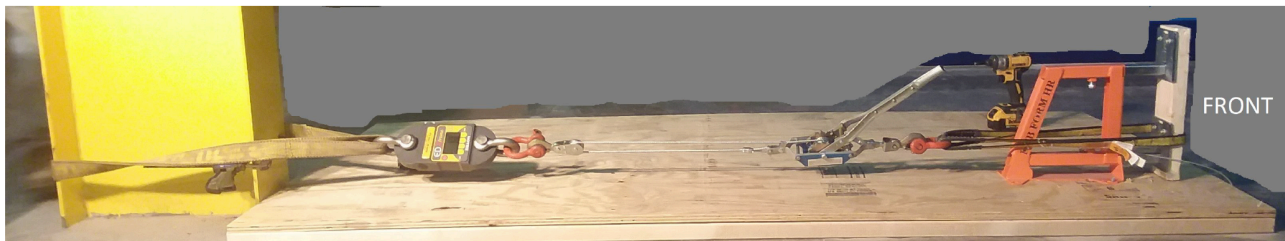


HIGH RISE FRAME

TEST DATE	March 4, 2020
TESTERS	Tony Leon, Dan Winters
PRODUCT	MSB Form High Rise Frame
TEST PURPOSE	To determine ultimate frame capacities under various substrate and fastener configurations
LOAD REQUIREMENT	Simulate concrete pressure with pull force to ultimate load

TEST SET UP



TEST RESULTS

PLYWOOD SUBSTRATE	SCREW TYPE	SCREW QUANT	SCREW CONFIGURATION	ULTIMATE FORCE		RESULT
				POUNDS	KG	
CDX PWD	MSB	2	2 FRONT	910 LBS	412 KG	SCREW PULLOUT
CDX PWD	MSB	2	1 FRONT, 1 BACK	618 LBS	280 KG	SCREW PULLOUT
CDX PWD	MSB	4	2 FRONT, 2 BACK	1,236 LBS	560 KG	SCREW PULLOUT
CDX PWD	D/W	2	2 FRONT	652 LBS	295 KG	SCREW PULLOUT
CDX PWD	D/W	2	1 FRONT, 1 BACK	484 LBS	219 KG	SCREW PULLOUT
CDX PWD	D/W	4	2 FRONT, 2 BACK	956 LBS	433 KG	SCREW PULLOUT
PERI BIRCH PWD	MSB	2	2 FRONT	1,636 LBS	742 KG	SCREW PULLOUT
PERI BIRCH PWD	MSB	2	1 FRONT, 1 BACK	1,268 LBS	574 KG	SCREW PULLOUT

TEST RESULTS (CONT'D)

PLYWOOD SUBSTRATE	SCREW TYPE	SCREW QUANT	SCREW CONFIGURATION	ULTIMATE FORCE		RESULT
				POUNDS	KG	
PERI BIRCH PWD	MSB	4	2 FRONT, 2 BACK	2,464 LBS	1,117 KG	FOOTNOTE 1
PERI BIRCH PWD	D/W	2	2 FRONT	762 LBS	345 KG	FOOTNOTE 2
PERI BIRCH PWD	D/W	2	1 FRONT, 1 BACK	1,076 LBS	488 KG	SCREW PULLOUT
PERI BIRCH PWD	D/W	4	2 FRONT, 2 BACK	1,664 LBS	745 KG	SCREW PULLOUT
PERI PSF PWD	MSB	2	2 FRONT	1,722 LBS	781 KG	SCREW PULLOUT
PERI PSF PWD	MSB	2	1 FRONT, 1 BACK	1,104 LBS	500 KG	SCREW PULLOUT
PERI PSF PWD	MSB	4	2 FRONT, 2 BACK	2,244 LBS	1,017 KG	FOOTNOTE 1
PERI PSF PWD	D/W	2	2 FRONT	1,422 LBS	645 KG	SCREWS BROKE
PERI PSF PWD	D/W	2	1 FRONT, 1 BACK	918 LBS	416 KG	SCREW PULLOUT
PERI PSF PWD	D/W	4	2 FRONT, 2 BACK	1,828 LBS	829 KG	SCREW PULLOUT
HDO PWD	MSB	2	2 FRONT	1,508 LBS	684 KG	SCREW PULLOUT
HDO PWD	MSB	2	1 FRONT, 1 BACK	880 LBS	399 KG	SCREW PULLOUT
HDO PWD	MSB	4	2 FRONT, 2 BACK	1,786 LBS	810 KG	SCREW PULLOUT
HDO PWD	D/W	2	2 FRONT	1,272 LBS	576 KG	SCREW PULLOUT
HDO PWD	D/W	2	1 FRONT, 1 BACK	942 LBS	427 KG	SCREW PULLOUT
HDO PWD	D/W	4	2 FRONT, 2 BACK	1,562 LBS	708 KG	SCREW PULLOUT
B/B PWD	MSB	2	2 FRONT	1,614 LBS	732 KG	SCREW PULLOUT
B/B PWD	MSB	2	1 FRONT, 1 BACK	856 LBS	388 KG	SCREW PULLOUT
B/B PWD	MSB	4	2 FRONT, 2 BACK	1,640 LBS	743 KG	SCREW PULLOUT
B/B PWD	D/W	2	2 FRONT	1,162 LBS	527 KG	SCREW PULLOUT
B/B PWD	D/W	2	1 FRONT, 1 BACK	884 LBS	400 KG	SCREW PULLOUT
B/B PWD	D/W	4	2 FRONT, 2 BACK	1,300 LBS	589 KG	SCREW PULLOUT
MDO PWD	MSB	2	2 FRONT	788 LBS	357 KG	SCREW PULLOUT
MDO PWD	MSB	2	1 FRONT, 1 BACK	680 LBS	308 KG	SCREW PULLOUT
MDO PWD	MSB	4	2 FRONT, 2 BACK	1,560 LBS	707 KG	SCREW PULLOUT
MDO PWD	D/W	2	2 FRONT	1,004 LBS	455 KG	SCREW PULLOUT
MDO PWD	D/W	2	1 FRONT, 1 BACK	550 LBS	249 KG	SCREW PULLOUT
MDO PWD	D/W	4	2 FRONT, 2 BACK	1,298 LBS	588 KG	SCREW PULLOUT

FOOTNOTES

1. Bottom brace arm slipped
2. 1 screw broke; other screw pulled out

TEST NOTES

- a. all tests placed the pull force to simulate concrete pressure resultant (5" up from bottom of brace).
- b. screw types:
 - MSB: #11 × 1" hex head lag screw with seal
 - D/W: #6 × 1-5/8" drywall wood screw



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