

NOTES:

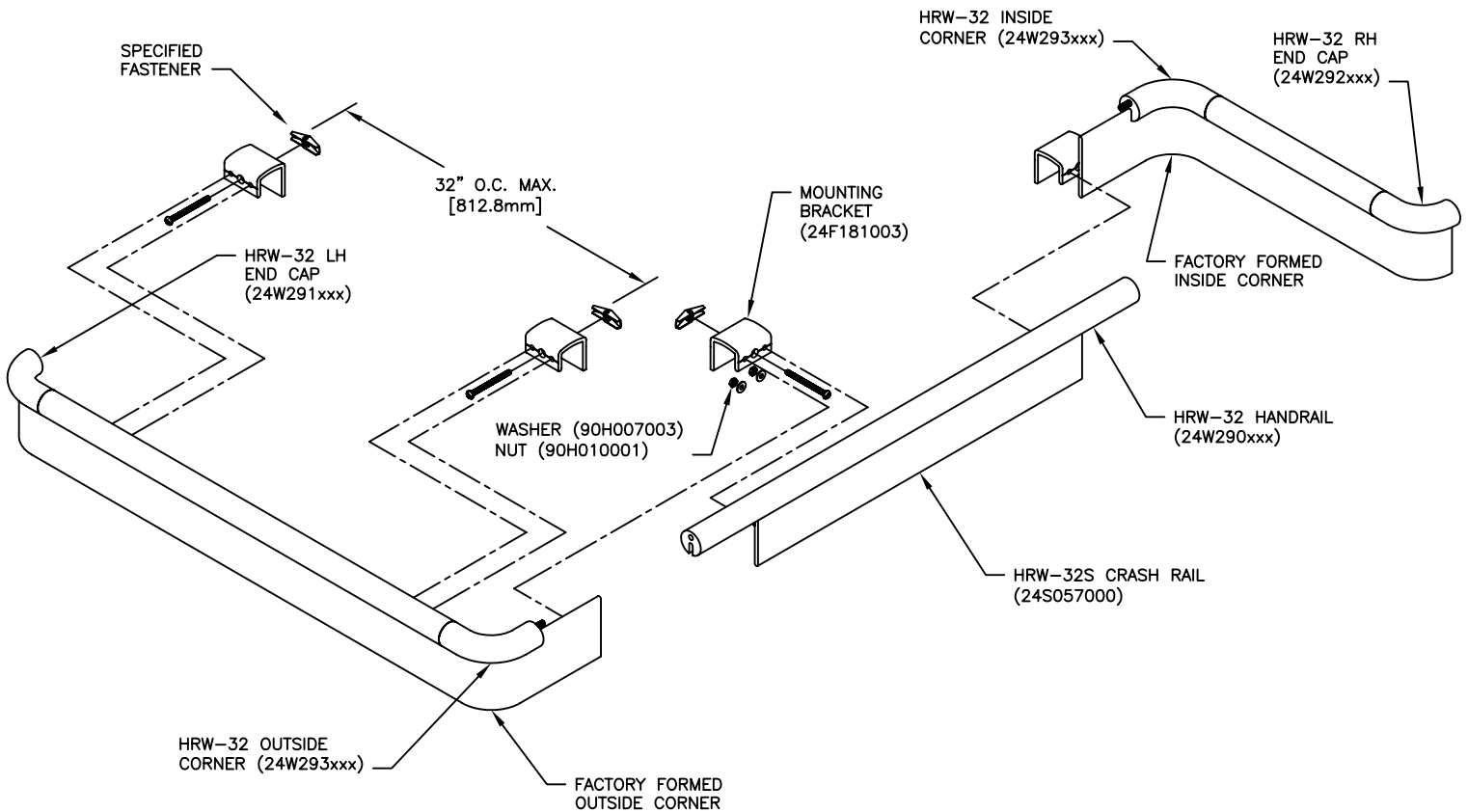
1. DIMENSIONS ARE TYPICAL.
2. FOR DRYWALL/PLASTER WALL CONSTRUCTION, IT IS RECOMMENDED FOR FASTENERS TO BE ENGAGED INTO METAL/WOOD STUDS TO MAINTAIN MAXIMUM PULLOUT STRENGTH.

WALL CONDITION	SPECIFIED FASTENER	DRILL DIAMETERS		C/S PART NUMBER
		WALL	RETAINER	
STEEL STUD/GYPSUM WALL	1/4-20 X 3" ROUND HEAD BOLT/TOGGLE WING	3/4"	N/A	90H045002
CONCRETE/CONCRETE BLOCK	#14 X 4" PHILLIPS ROUND HEAD ALL-PURPOSE SCREW	7/32"	N/A	90H225002
WOOD STUD/GYPSUM WALL	#14 X 4" PHILLIPS ROUND HEAD ALL-PURPOSE SCREW	7/32"	N/A	90H225002

INSTALLATION INSTRUCTIONS

24EF

HRW-32S HANDRAIL



1. DISTRIBUTE MATERIAL. MATCH THE NUMBER ON THE BACK OF THE RAIL TO THE MARK NUMBER ON THE DRAWING. SOME LARGE RUNS REQUIRE MORE THAN ONE PIECE OF CRASH RAIL. THESE ARE NOTED WITH A MARK NUMBER AND A LETTER, I.E., 2001A 2001B.
2. USING "LOCAL CODE" REQUIREMENTS ESTABLISH HANDRAIL HEIGHT ABOVE FINISH FLOOR. DEDUCT 2 3/4" [69.8mm] AND SNAP A CHALK LINE AT THAT HEIGHT. THIS MARKS THE LOCATION OF THE HOLE FOR MOUNTING BRACKET FASTENERS.
3. DETERMINE WALL FASTENER LOCATIONS BY USING THE REQUIRED DEDUCTIONS (SEE LAYOUT VIEW) AND DRILL HOLE DIAMETER (REFERENCE CHART BELOW LAYOUT VIEW) IN THE WALL FOR SPECIFIED WALL FASTENERS (SEE NOTE 2 ON LAYOUT VIEW).
4. INSTALL MOUNTING BRACKETS USING APPROPRIATE FASTENERS. LEVEL EACH MOUNTING BRACKET WHILE FASTENING IT TO THE WALL.
5. APPLY WOOD GLUE INTO THE HOLES AND CUT SURFACE OF HANDRAIL (TITEBOND IS RECOMMENDED). ATTACH HANDRAIL BY SLIDING THE END CAP DOWEL INTO THE MATING WOOD HANDRAIL CLEARANCE HOLE. WIPE OFF ANY EXCESS GLUE.
6. ATTACH THE ASSEMBLED HANDRAIL TO THE WALL BRACKETS BY ALIGNING THE STUD WITH THE MOUNTING BRACKETS AND INSERTING THE STUD INTO THE MOUNTING BRACKET HOLE. PLACE A 1/4" FLAT WASHER AND 1/4-20 HEX NUT ONTO THE HEX HEAD BOLT AND TIGHTEN AS REQUIRED.

CONSTRUCTION SPECIALTIES INC
DECOGARD PRODUCTS

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