Wall and Storage Cabinets

General Requirements

WOODWORK INSTITUTE
CASEWORK SUPPORTS & ATTACHMENTS
HCAI Pre-Approval of
Manufacturer's Certification (OPM)
OPM-0092

SUPPORTS & ATTACHMENTS DESIGNED FOR:
2019 CALIFORNIA BUILDING CODE (CBC)
ASCE 7-16

IMPORTANCE FACTOR:	Ip=1.5
DESIGN S.R.A., SHORT PERIOD:	Sos=2.00
COMP. AMP. FACTOR:	ap=1.0 (ASCE 7-16
COMP. RESPONSE MOD. FACTOR:	Rp=2.5 TABLE 13.5.1)
OVERSTRENGTH FACTOR:	Ωo=2.0 (REQ'D FOR ANCHORAGE TO CONCRETE & CMU)

THE SUPPORT AND ATTACHMENT DETAILS MAY BE USED FOR ANY LOCATION IN THE STATE OF CALIFORNIA WHERE Sos IS NOT GREATER THAN 2.00 AND AT ANY HEIGHT IN THE BUILDING WHERE z/h <= 1.0.

SEISMIC FORCES:
FOR FASTENERS USED IN FRAMED WALLS OR CMU WALLS
FORCES SHOWN ON THESE DRAWINGS ARE AT ASD LEVEL.
CALCULATED THUS: Fph=1.00(Wp) (ASD) Fpv=0.28(Wp) (ASD)
FOR FASTENERS USED IN CONCRETE WALLS
FORCES SHOWN ON THESE DRAWINGS ARE AT SD LEVEL
CALCULATED THUS: Fp=1.44(Wp) Ev=0.40(Wp)

THIS PRE-APPROVAL ENCOMPASSES
THE FOLLOWING:
DESIGN CRITERIA: DC-01, DC-02 & DC-03
STORAGE CABINET: SC-01, SC-02 & SC-03
WALL CABINET: WC-01, WC-02 & WC-03
BASE CABINET: BC-01, BC-02
PENINSULA CABINET: PC-01, PC-02

THIS PRE-APPROVAL COVERS ONLY
THE SUPPORTS & ATTACHMENTS OF
THE UNIT TO THE STRUCTURE.
THE SUPPORTS AND ATTACHMENTS SHALL
BE SUPPLIED & INSTALLED BY THE CONTRACTOR.

REGISTERED PROFESSIONAL ENGINEER — RICHARD Z. LIBBEY — S2479 — STRUCTURAL — STATE OF CALIFORNIA

SCALE: NONE	DATE: 5/2/2022	DESIGN CRITERIA	Drawing No.
LTK ASSOCIATES Incorporated — Structural Engineers 745 Distel Drive Los Altos, CA 94022 (650) 987-8485 FAX (650) 967-5148	WOODWORK INSTITUTE — 1455 Response Road, Suite 110 Sacramento, CA 95815 (916) 372-9943 woodworkinstitute.com		OPM-0092 DC-01 1 of 13

GENERAL NOTES:
1) THIS HCAI PREAPPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE CBC 2019. THE DEMAND (DESIGN FORCES) FOR USE WITH THIS OPM MUST BE BASED ON THE CBC 2019.
2) STRUCTURAL ENGINEER OF RECORD IS RESPONSIBLE FOR:
a) THE DESIGN OF THE STRUCTURE (FLOOR, WALL, BACKING) TO SUPPORT THE FORCES DUE TO THIS EQUIPMENT LOADING. IN NO CASE SHALL WALL FRAMING BE DESINGED FOR LESS THAN THE CODE REQUIRED MINIMUM DESIGN LOADS.
b) VERIFY THAT THE ANCHORS ARE AN ADEQUATE DISTANCE FROM ANY OPENINGS.
c) VERIFY THAT ALL NEW OR EXISTING ANCHORS ARE ADEQUATE DISTANCE FROM THE ANCHORS SHOWN IN THIS PRE-APPROVAL. SEOR SHALL VERIFY THERE IS NO ADVERSE INTERACTION WHERE OTHER ANCHORS ARE WITHIN 18" OR GHEF FROM THIS UNIT'S ANCHORS.

STANDARD WOODWORK CASEWORK:
MATERIAL USED IN THE CONSTRUCTION OF THE POINT OF ATTACHMENT TO THE STRUCTURE (i.e., NAILER) SHALL BE OF THE FOLLOWING:
PLYWOOD (STRUCT 1),
MDF (GRADE 150) OR,
DOUGLAS FIR LARCH WITH A SPECIFIC GRAVITY OF 0.50 OR BETTER.
MINIMUM THICKNESS OF ¾" FOR THE PART THROUGH WHICH ATTACHMENT IS TO BE MADE.
HOLES IN CABINET FOR EXPANSION ANCHORS SHALL BE BOLT DIAMETER + 1/16".
TOE KICK ANGLE: 16 GA., 50 ksi, SHEET METAL

LOADING:
MAXIMUM CONTENT LOAD: 33 PCF

WALL BACKING:
WALL BACKING MAY BE EITHER,
3x6 FLAT DOUGLAS FIR (No. 2)
(at wood framed walls) or
16GA., 50 KSI SHEET METAL BACKING
(at metal stud framed walls)
ALL BACKING AND WALL FRAMING
TO BE DESIGNED BY SEOR.

FASTENERS AT WOOD FRAMED WALLS:
SCREW FASTENERS SHALL BE:
SIMPSON STRONG DRIVE SDWH19400DB TIMBER-HEX SCREWS,
WITH MIN. 2" PENETRATION
INTO WOOD BACKING.

FASTENERS AT METAL FRAMED WALLS:
SCREW FASTENERS SHALL BE:
SHEET METAL SCREWS (SMS)
WITH HEX WASHER HEAD
(TAPPING SCREW FASTNE'S SHALL HAVE DATA IN ACCORDANCE w/ ICC-ES AC118).
SMS SHALL HAVE MIN. 3
THREADS EXTEND BEYOND
SHEET METAL BACK'G.

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EXPANSION ANCHORS IN CONCRETE:
FOR USE IN CONCRETE WALL OR FLOOR:
HILTI KWIK BOLT-TZ2, ICC ESR-4266

3/8"# ANCHORS
w/ hef=2" EMBEDMENT
INSTALLATION TORQUE: 30 ft-lb

1/2" # ANCHORS
w/ hef=2" EMBEDMENT
INSTALLATION TORQUE: 50 ft-lb

WALLS
f'c=3000psi, NWC
MIN. WALL THICKNESS: 6"
MIN. EDGE DISTANCE: 6"

FLOORS
f'c=3000psi, LTWT OR NWC
MIN. THICKNESS:
SLAB ON METAL DECK: 3 1/4"
SLAB ON GRADE: 4"
MIN. EDGE DISTANCE: 6"
METAL DECK: MIN. 20 GA., 50 ksi

EXPANSION ANCHOR TESTING IN CONCRETE:
PER CBC SECTION 1910A.5
-TORQUE TESTING SHALL BE DONE IN THE PRESENCE OF THE SPECIAL INSPECTOR (FROM APPROVED INDEPENDENT AGENCY) & A REPORT OF THE TEST RESULTS SHALL BE SUBMITTED TO THE IOR, OWNER, & ARCHITECT OR ENGINEER IN RESPONSIBLE CHARGE.
-TEST 50% OF THE ANCHORS, IF ANY ANCHOR FAILS TESTING, TEST ALL ANCHORS UNTIL 20 CONSECUTIVE ANCHORS PASS, THEN RESUME INITIAL TEST FREQUENCY.
-TEST ACCEPTANCE CRITERIA,
ANCHORS TESTED w/ A CALIBRATED WRENCH MUST ATTAIN THE SPECIFIED TORQUE WITHIN 1/2 TURN OF THE NUT.

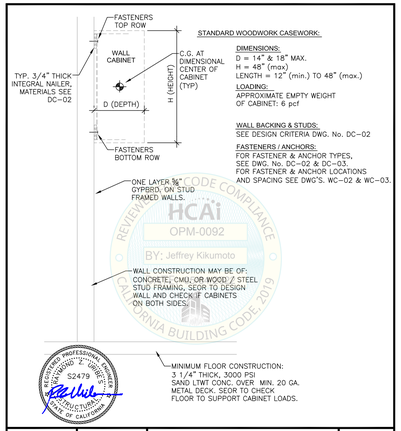
EXPANSION ANCHOR TESTING IN CMU:
TESTING OF EXPANSION ANCHORS IN CMU, SIMILAR TO CRITERIA NOTED ABOVE.

EXPANSION ANCHORS IN CMU WALLS:
UNCRACKED CMU WALL: (ALL CELLS GROUTED SOLID)
HILTI KWIK BOLT-TZ2 (ICC ESR-4561)
3/8"# ANCHORS
w/ hef=2 1/2" EMBEDMENT
4" MIN. EDGE DIST.
INSTALLATION TORQUE: 15 ft-lb

NOTE: Expansion anchors designed to ICC-ES AC01 are limited to allowable stress design ONLY in accordance with AC01 1.2. Hence, strength design values are not acceptable. Allowable stress values can be shown provided, SEOR will verify that:
a. masonry is not cracked as defined in ICC-ES AC01 Section 2.3; the SEOR shall provide calculations to show that the masonry wall would not crack under the design earthquake loads under all service conditions; the wall has to remain elastic.
b. masonry is fully grouted in accordance w/ ESR-4561 Section 3.2;
c. conditions of use requirements in accordance w/ ESR-4561 Section 5.0 is satisfied.

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Specific Wall Cabinet Requirements



STANDARD WOODWORK CASEWORK:

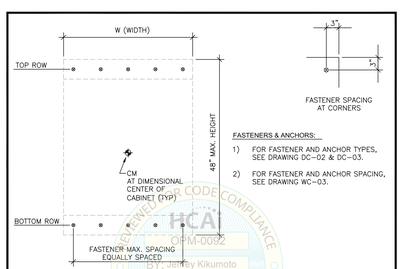
DIMENSIONS:
D = 14" & 16" MAX.
H = 48" (max)
LENGTH = 12" (min.) TO 48" (max.)

LOADING:
APPROXIMATE EMPTY WEIGHT OF CABINET: 6 pcf

WALL BACKING & STUDS:
SEE DESIGN CRITERIA DWG. No. DC-02

FASTENERS / ANCHORS:
FOR FASTENER & ANCHOR TYPES, SEE DWG. No. DC-02 & DC-03.
FOR FASTENER & ANCHOR LOCATIONS AND SPACING SEE DWG'S. WC-02 & WC-03.

SCALE: NONE	DATE: 5/2/2022	WALL CABINET SUPPORTS & ATTACHMENTS	Drawing No.
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FASTENERS & ANCHORS:
1) FOR FASTENER AND ANCHOR TYPES, SEE DRAWING DC-02 & DC-03.
2) FOR FASTENER AND ANCHOR SPACING, SEE DRAWING WC-03.

WALL HUNG CABINET
ELEVATION OF CABINET BACK
FASTENER LOCATIONS

NOTES:
1) SEE NOTES ON DRAWING DC-01, DC-02 & DC-03.
2) CABINET DIMENSIONS SHOWN ARE MAXIMUM SIZES. FOR CABINETS OF OTHER SIZES USE FASTENER SPACING FOR NEXT LARGER CABINET SIZE.
3) MATERIAL SHOWN AS: WOOD, METAL, CMU, CONCRETE IS THE TYPE OF WALL CONSTRUCTION TO WHICH THE FASTENERS WILL BE ATTACHED. SEE DRAWING DC-02 FOR MATERIAL SPECIFICS AND BACKING REQUIREMENTS FOR STUD WALL TYPES.
4) FASTENERS TO BE SPACED EQUALLY IN EACH ROW (OR LINE).

SCALE: NONE	DATE: 5/2/2022	WALL CABINET SUPPORTS & ATTACHMENTS	Drawing No.
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STANDARD WOODWORK CASEWORK:

NOTES:
SEE NOTES ON DWG. DC-01, DC-02 & DC-03

DIMENSIONS
D = 14" & 18" (max)
H = 48" (max)
LENGTH = 12" (min) to 48" (max)

LOADING:
APPROXIMATE EMPTY WEIGHT OF CABINET: 6 pcf

WALL BACKING
SEE DESIGN CRITERIA DWG. No. DC-02

FASTENERS / ANCHORS:
FOR FASTENER & ANCHOR TYPES, SEE DWG. No. DC-02 & DC-03 (UNO)
FASTENER SPACING IN EACH ROW:

14" DEEP CABINET
SCREWS TO WOOD BACKING:
SIMPSON SDWH, 3" FROM EACH END, 8.4" o.c. BETWEEN
T max. = 104 lbs, V max. = 144 lbs
(Forces are ASD)

SCREWS TO METAL BACKING:
#14 SMS, 3" FROM EACH END, 8.4" o.c. BETWEEN
T max. = 104 lbs, V max. = 144 lbs
(Forces are ASD)

ANCHORS TO CMU:
3/8" HKB-TZ2, 2 1/2" EMBEDMENT
3" FROM EACH END, 14" o.c. BETWEEN
T max. = 341 lbs, V max. = 423 lbs
(Forces are ASDxΩmega)

ANCHORS TO CONCRETE:
3/8" HKB-TZ2, 2" EMBEDMENT
3" FROM EACH END, 14" o.c. BETWEEN,
T max. = 611 lbs, V max. = 493 lbs
(Forces are SDxΩmega)

18" DEEP CABINET
SCREWS TO WOOD BACKING:
SIMPSON SDWH, 3" FROM EACH END, 8.4" o.c. BETWEEN
T max. = 104 lbs, V max. = 144 lbs
(Forces are ASD)

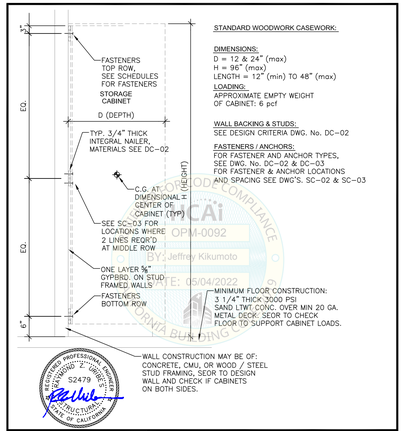
SCREWS TO METAL BACKING:
#14 SMS, 3" FROM EACH END, 8.4" o.c. BETWEEN
T max. = 104 lbs, V max. = 144 lbs
(Forces are ASD)

ANCHORS TO CMU:
3/8" HKB-TZ2, 2 1/2" EMBEDMENT
3" FROM EACH END, 10.5" o.c. BETWEEN
T max. = 341 lbs, V max. = 423 lbs
(Forces are ASDxΩmega)

ANCHORS TO CONCRETE:
3/8" HKB-TZ2, 2" EMBEDMENT
3" FROM EACH END, 10.5" o.c. BETWEEN,
T max. = 611 lbs, V max. = 493 lbs
(Forces are SDxΩmega)

SCALE: NONE	DATE: 5/2/2022	WALL CABINET SUPPORTS & ATTACHMENTS	Drawing No.
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Specific Storage Cabinet Requirements



STANDARD WOODWORK CASEWORK:

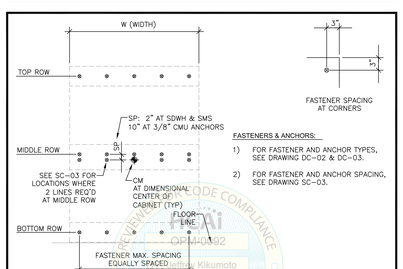
DIMENSIONS:
D = 12 & 24" (max)
H = 96" (max)
LENGTH = 12" (min) TO 48" (max)

LOADING:
APPROXIMATE EMPTY WEIGHT OF CABINET: 6 pcf

WALL BACKING & STUDS:
SEE DESIGN CRITERIA DWG. No. DC-02

FASTENERS / ANCHORS:
FOR FASTENER AND ANCHOR TYPES, SEE DWG. No. DC-02 & DC-03
FOR FASTENER & ANCHOR LOCATIONS AND SPACING SEE DWG'S. SC-02 & SC-03

SCALE: NONE	DATE: 5/2/2022	STORAGE CABINET SUPPORTS & ATTACHMENTS	Drawing No.
LTK ASSOCIATES Incorporated — Structural Engineers 745 Distel Drive Los Altos, CA 94022 (650) 987-8485 FAX (650) 967-5148	WOODWORK INSTITUTE — 1455 Response Road, Suite 110 Sacramento, CA 95815 (916) 372-9943 woodworkinstitute.com		SC-01 4 of 13



FASTENERS & ANCHORS:
1) FOR FASTENER AND ANCHOR TYPES, SEE DRAWING DC-02 & DC-03.
2) FOR FASTENER AND ANCHOR SPACING, SEE DRAWING SC-03.

STORAGE CABINET
ELEVATION OF BACK PANEL
FASTENER LOCATIONS

NOTES:
1) SEE NOTES ON DRAWING DC-01, DC-02 & DC-03.
2) CABINET DIMENSIONS SHOWN ARE MAXIMUM SIZES. FOR CABINETS OF OTHER SIZES USE FASTENER SPACING FOR NEXT LARGER CABINET SIZE.
3) MATERIAL SHOWN AS: WOOD, METAL, CMU, CONCRETE IS THE TYPE OF WALL CONSTRUCTION TO WHICH THE FASTENERS WILL BE ATTACHED. SEE DRAWING DC-02 FOR MATERIAL SPECIFICS AND BACKING REQUIREMENTS FOR STUD WALL TYPES.
4) FASTENERS TO BE SPACED EQUALLY IN EACH ROW (OR LINE).

SCALE: NONE	DATE: 5/2/2022	STORAGE CABINET SUPPORTS & ATTACHMENTS	Drawing No.
LTK ASSOCIATES Incorporated — Structural Engineers 745 Distel Drive Los Altos, CA 94022 (650) 987-8485 FAX (650) 967-5148	WOODWORK INSTITUTE — 1455 Response Road, Suite 110 Sacramento, CA 95815 (916) 372-9943 woodworkinstitute.com		SC-02 5 of 13

STANDARD WOODWORK CASEWORK

NOTES:
SEE NOTES ON DWG. DC-01, DC-02 & DC-03

DIMENSIONS
D = 12" & 24" (max)
H = 96" (max)
LENGTH = 12" (min) to 48" (max)

LOADING:
APPROXIMATE EMPTY WEIGHT OF CABINET: 6 pcf

WALL BACKING
SEE DESIGN CRITERIA DWG. No. DC-02

FASTENERS / ANCHORS:
FOR FASTENER & ANCHOR TYPES, SEE DWG. No. DC-02 & DC-03 (UNO)
FASTENER SPACING IN EACH ROW:

12" DEEP CABINET
SCREWS TO WOOD BACKING:
SIMPSON SDWH, 3" FROM EACH END, 14" o.c. BETWEEN, 2 LINES AT MIDDLE
T max. = 103 lbs, V max. = 89 lbs
(Forces are ASD)

SCREWS TO METAL BACKING:
#14 SMS, 3" FROM EACH END, 14" o.c. BETWEEN, 2 LINES AT MIDDLE
T max. = 103 lbs, V max. = 89 lbs
(Forces are ASD)

ANCHORS TO CMU:
3/8" HKB-TZ2, 2 1/2" EMBEDMENT
3" FROM EACH END, 14" o.c. BETWEEN
T max. = 382 lbs, V max. = 354 lbs
(Forces are ASDxΩmega)

ANCHORS TO CONCRETE:
3/8" HKB-TZ2, 2" EMBEDMENT
3" FROM EACH END, 14" o.c. BETWEEN,
T max. = 591 lbs, V max. = 510 lbs
(Forces are SDxΩmega)

24" DEEP CABINET
SCREWS TO WOOD BACKING:
SIMPSON SDWH, 3" FROM EACH END, 14" o.c. BETWEEN, 2 LINES AT MIDDLE
T max. = 211 lbs, V max. = 155 lbs
(Forces are ASD)

SCREWS TO METAL BACKING:
#14 SMS, 3" FROM EACH END, 5.25" o.c. BETWEEN, 2 LINES AT MIDDLE
T max. = 185 lbs, V max. = 69 lbs
(Forces are ASD)

ANCHORS TO CMU:
3/8" HKB-TZ2, 2 1/2" EMBEDMENT
3" FROM EACH END, 14" o.c. BETWEEN, 2 LINES REQ'D AT MIDDLE ROW
T max. = 408 lbs, V max. = 309 lbs
(Forces are ASDxΩmega)

ANCHORS TO CONCRETE:
3/8" HKB-TZ2, 2" EMBEDMENT
3" FROM EACH END, 14" o.c. BETWEEN,
T max. = 1175 lbs, V max. = 890 lbs
(Forces are SDxΩmega)

SCALE: NONE	DATE: 5/2/2022	STORAGE CABINET SUPPORTS & ATTACHMENTS	Drawing No.
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WOODWORK INSTITUTE

Certified Seismic Installation Program
Drawings Sheet

General Notes

The 2013 and 2015 editions of the California Building Code (CBC) only regulate seismic compliance of wall mounted upper and floor resting casework that extend over 6' above the finished floor but did not address typical floor resting base or peninsula casework.

On April 18, 2010, WI was granted OPSHD's OPA-2649-10 pre-approval for seismic casework installation of wall mounted and floor resting tall storage, base and peninsula casework. With adoption of the 2013 CBC WI was granted OSHPD's OPM-0090-13; however, only for wall mounted upper and floor resting tall storage casework as required by the CBC.

Because the 2013 CBC did not regulate seismic installation of floor resting base or peninsula casework, the Woodwork Institute's Certified Seismic Installation Program (CSIP) for casework was based both on the 2013 CBC for wall mounted upper and floor resting tall storage cabinets, and retained the 2010 CBC's requirements for floor resting base and peninsula casework. The new CSIP based on the 2019 code includes wall hung cabinets, tall cabinets and standard base and peninsula cabinets in one OSHPD approved OPM.

All of WI's CSIP requirements are engineered to and based on the latest published CBC requirements and acknowledged by California's Department of Health Care Access and Information (HCAI) pre-approval programs. All engineering is adequate for casework installation within the State of California at any height within a building where the SDS is not greater than 2.0. Requirements and/or allowances for wall construction, blocking, sheet rock thickness, maximum cabinet sizes, etc. are specifically covered within the individual OPM approvals included herewith.

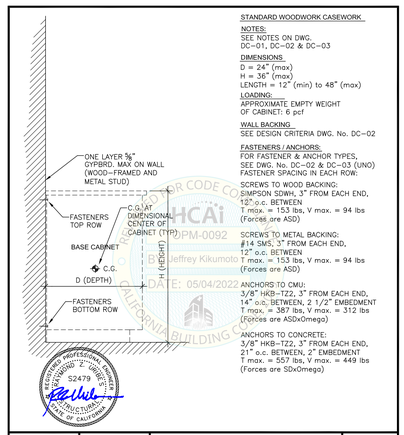
Specific details about the minimum procedures, requirements and cost of WI's Certified Seismic Installation program can be found at http://woodworkinstitute.com/services/ certified-seismic-installation-program/ or by calling the applicable WI Architectural Services Representative as listed at http://woodworkinstitute.com/about-us-2/about-us/.

WI's OPA and OPM requirements/details are only valid in conjunction with WI's CSIP Program.

Woodwork Institute ▼ 1435 River Park Dr., Suite 520 ▼ Sacramento, California 95815
(916) 372-9943 ▼ www.woodworkinstitute.com ▼ info@woodinst.com

Base and Peninsula Cabinets

Specific Base Cabinet Requirements



STANDARD WOODWORK CASEWORK
NOTES:
SEE NOTES ON DWG. DC-01, DC-02 & DC-03

DIMENSIONS
D = 24" (max)
H = 36" (max)
LENGTH = 12" (min) to 48" (max)

LOADING:
APPROXIMATE EMPTY WEIGHT OF CABINET: 6 pcf

WALL BACKING
SEE DESIGN CRITERIA DWG. No. DC-02

FASTENERS / ANCHORS:
FOR FASTENER & ANCHOR TYPES, SEE DWG. No. DC-02 & DC-03 (UNO)
FASTENER SPACING IN EACH ROW:

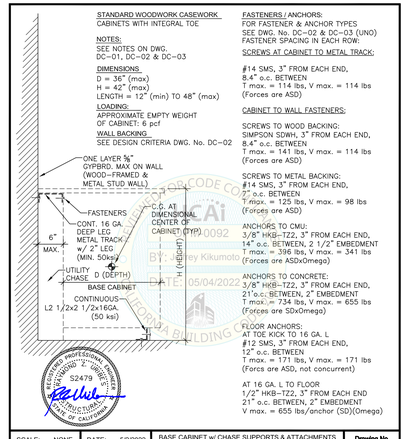
SCREWS TO WOOD BACKING:
SIMPSON SDWH, 3" FROM EACH END, 12" o.c. BETWEEN
T max. = 153 lbs, V max. = 94 lbs
(Forces are ASD)

SCREWS TO METAL BACKING:
#14 SMS, 3" FROM EACH END, 12" o.c. BETWEEN
T max. = 153 lbs, V max. = 94 lbs
(Forces are ASD)

ANCHORS TO CMU:
3/8" HKB-TZ2, 3" FROM EACH END, 14" o.c. BETWEEN, 2 1/2" EMBEDMENT
T max. = 387 lbs, V max. = 312 lbs
(Forces are ASDxΩmega)

ANCHORS TO CONCRETE:
3/8" HKB-TZ2, 3" FROM EACH END, 21" o.c. BETWEEN, 2" EMBEDMENT
T max. = 557 lbs, V max. = 449 lbs
(Forces are SDxΩmega)

SCALE: NONE	DATE: 5/2/2022	BASE CABINET SUPPORTS & ATTACHMENTS	Drawing No.
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STANDARD WOODWORK CASEWORK
CABINETS WITH INTEGRAL TOE

NOTES:
SEE NOTES ON DWG. DC-01, DC-02 & DC-03

DIMENSIONS
D = 36" (max)
H = 42" (max)
LENGTH = 12" (min) TO 48" (max)

LOADING:
APPROXIMATE EMPTY WEIGHT OF CABINET: 6 pcf

WALL BACKING
SEE DESIGN CRITERIA DWG. No. DC-02

FASTENERS / ANCHORS:
FOR FASTENER & ANCHOR TYPES
SEE DWG. No. DC-02 & DC-03 (UNO)
FASTENER SPACING IN EACH ROW:

SCREWS AT CABINET TO METAL TRACK:

#14 SMS, 3" FROM EACH END, 8.4" o.c. BETWEEN
T max. = 114 lbs, V max. = 114 lbs
(Forces are ASD)

CABINET TO WALL FASTENERS:

SCREWS TO WOOD BACKING:
SIMPSON SDWH, 3" FROM EACH END, 8.4" o.c. BETWEEN
T max. = 141 lbs, V max. = 114 lbs
(Forces are ASD)

SCREWS TO METAL BACKING:
#14 SMS, 3" FROM EACH END, 7" o.c. BETWEEN
T max. = 125 lbs, V max. = 98 lbs
(Forces are ASD)

ANCHORS TO CMU:
3/8" HKB-TZ2, 3" FROM EACH END, 14" o.c. BETWEEN, 2 1/2" EMBEDMENT
T max. = 396 lbs, V max. = 341 lbs
(Forces are ASDxΩmega)

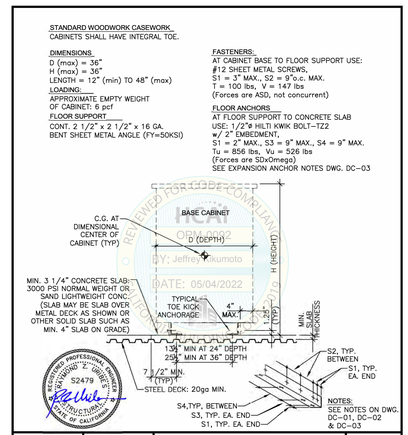
ANCHORS TO CONCRETE:
3/8" HKB-TZ2, 3" FROM EACH END, 21" o.c. BETWEEN, 2" EMBEDMENT
T max. = 734 lbs, V max. = 655 lbs
(Forces are SDxΩmega)

FLOOR ANCHORS:
AT TOE KICK TO 16 GA. L
#12 SMS, 3" FROM EACH END, 12" o.c. BETWEEN
T max. = 171 lbs, V max. = 171 lbs
(Forces are ASD, not concurrent)

AT 16 GA. L TO FLOOR
1/2" HKB-TZ2, 3" FROM EACH END 21" o.c. BETWEEN, 2" EMBEDMENT
V max. = 655 lbs/anchor (SD)(Omega)

SCALE: NONE	DATE: 5/2/2022	BASE CABINET w/ CHASE SUPPORTS & ATTACHMENTS	Drawing No.
LTK ASSOCIATES Incorporated — Structural Engineers 745 Distel Drive Los Altos, CA 94022 (650) 987-8485 FAX (650) 967-5148	WOODWORK INSTITUTE — 1455 Response Road, Suite 110 Sacramento, CA 95815 (916) 372-9943 woodworkinstitute.com		BC-02 11 of 13

Specific Peninsula Cabinet Requirements



STANDARD WOODWORK CASEWORK
CABINETS SHALL HAVE INTEGRAL TOE.

DIMENSIONS
D (max) = 36"
H (max) = 36"
LENGTH = 12" (min) TO 48" (max)

LOADING:
APPROXIMATE EMPTY WEIGHT OF CABINET: 6 pcf

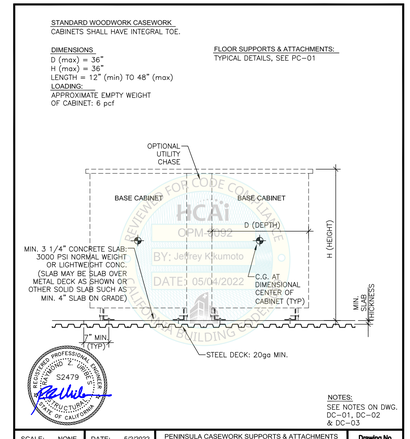
FLOOR SUPPORT
CONT. 2 1/2" x 2 1/2" x 16 GA. BENT SHEET METAL ANGLE (FY=50KSI)

FASTENERS:
AT CABINET BASE TO FLOOR SUPPORT USE:
#12 SHEET METAL SCREWS,
S1 = 3" MAX., S2 = 9"o.c. MAX.
T = 100 lbs, V = 147 lbs
(Forces are ASD, not concurrent)

FLOOR ANCHORS
AT FLOOR SUPPORT TO CONCRETE SLAB USE: 1/2"ø HILTI KWIK BOLT-TZ2
w/ 2" EMBEDMENT,
S1 = 2" MAX., S3 = 9" MAX., S4 = 9" MAX.
Tu = 856 lbs, Vu = 526 lbs
(Forces are SDxΩmega)
SEE EXPANSION ANCHOR NOTES DWG. DC-03

NOTES:
SEE NOTES ON DWG. DC-01, DC-02 & DC-03

SCALE: NONE	DATE: 5/2/2022	PENINSULA CASEWORK SUPPORTS & ATTACHMENTS	Drawing No.
LTK ASSOCIATES Incorporated — Structural Engineers 745 Distel Drive Los Altos, CA 94022 (650) 987-8485 FAX (650) 967-5148	WOODWORK INSTITUTE — 1455 Response Road, Suite 110 Sacramento, CA 95815 (916) 372-9943 woodworkinstitute.com		PC-01 12 of 13



STANDARD WOODWORK CASEWORK
CABINETS SHALL HAVE INTEGRAL TOE.

DIMENSIONS
D (max) = 36"
H (max) = 36"
LENGTH = 12" (min) TO 48" (max)

LOADING:
APPROXIMATE EMPTY WEIGHT OF CABINET: 6 pcf

FLOOR SUPPORTS & ATTACHMENTS:
TYPICAL DETAILS, SEE PC-01

NOTES:
SEE NOTES ON DWG. DC-01, DC-02 & DC-03

SCALE: NONE	DATE: 5/2/2022	PENINSULA CASEWORK SUPPORTS & ATTACHMENTS	Drawing No.
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