COLLECTOR STUD CAPACITY SCHEDULES ROD HOLE SCHEDULE **GENERAL NOTES** THE <u>SLACKJACK[™] DEVICE</u> COMPONENTS INCLUDE: B. BLOCKING SHALL EQUAL THE OUTERMOST DIMENSIONS OF THE "FOOTPRINT" OF THE COLLECTOR STUD CAPACITIES FOR DOUG FIR STUDS ON DOUG FIR PLATES TOTAL HOLDOWN WOOD COMPRESSION MEMBERS OF THE FLOOR LEVELS BELOW AND A. SJA INNER AND OUTER SLEEVE CYLINDERS ROD HOLE SCHEDULE THROUGH 4'-6"/6'-0" CAPACITY 9'-0" CAPACITY ** ABOVE THE JOIST SPACE. B. PRE-COMPRESSED COMPRESSION SPRING TOP/BOTTOM PLATES AND BRIDGES STUDS REQUIRED 2x4 2x6 3x4 4x4 BRIDGE TRIMMERS ONLY C. NUT: ALL NUTS TO CONFORM TO ASTM A563 GRADE "A" FOR 60 KSI AND C. THE SPACE BETWEEN BLOCKING WHERE THE ROD IS LOCATED SHALL NOT EXCEED 3" QTY. PLAN VIEW STUDS STUDS POSTS POSTS NO. OF 2x6s POSTS 2x4s GRADE "C" FOR 120 KSI TENSILE STRENGTH THREADED RODS. FOR DOUBLE PLATES OR 1.5" FOR SINGLE PLATE CONSTRUCTION. 3,281# ROD SIZE MIN HOLE SIZE MAX HOLE SIZE **SINGLE CAPACITY:** 2,338# 5,156# 3,896# 6,391# 10,015# 13,161# 5,156# BRIDGE TRIMMERS D. SWIVEL WASHER D. COMPRESSION CAPACITIES OF BLOCKING MATERIALS SHALL BE EQUAL TO OR GREATER 7,793# | 12,781# | 20,030# | 26,322# 6,563# 10,313# 1"ø 1−1/8"ø 1/2″ø THAN THE RELATED JOISTS. THE VERTICAL DIMENSIONS SHALL BE EQUAL. SEE . ALL THREADED RODS SHALL BE ASTM A36 AND BE RATED FOR MINIMUM TENSILE 3 M + M 7,013# 15,469# 11,689# 19,172# 30,045# 39,484# R5 5/8"ø 1"ø 1-1/8"ø NOTE "E" FOR EXCEPTION. STRENGTH OF 58.000 PSI. HIGH STRENGTH (HS) RODS SHALL BE ASTM R6 1"ø 3/4"ø 1-1/8"ø 4 M + M 9,351# 20,625# 15,585# 25,563# 40,059# 52,645# 13,125# 20,625# A193-B7 RATED FOR MINIMUM 125,000 PSI. ALL THREADED RODS ARE UNIFORM E. VERTICAL GRAIN BLOCKING SHALL BE TRIMMED TO ACCOUNT FOR POSSIBLE NATIONAL COURSE (UNC) THREADED. 5 MM + M 11,689# 25,781# 19,482# 31,953# 50,074# 65,806# 7/8"ø 1-1/8"ø 1-1/4"ø SHRINKAGE OF THE JOISTS. CONTACT JOIST MANUFACTURER FOR SHRINKAGE INFORMATION. MM + MM 14,027# 30,938# 23,378# 38,344# 60,089# 78,967# 1-1/4"ø 1-3/8"ø 19,688# 30,938# 1"ø 3. STANDARD RODS ARE ZINC PLATED, HIGH STRENGTH (HS) RODS ARE BLACK STEEL. R9 1-1/8"ø 1-3/8"ø * 1-1/2"ø F. FLOOR JOISTS SHALL NOT BE REMOVED TO ALLOW FOR THE INSTALLATION ALL BEARING PLATES ARE FABRICATED FROM ASTM A36 STEEL OF BLOCKING. BLOCKING IS IN ADDITION TO THE EXISTING JOISTS. 8 | MM + MM | 18,702# | 41,250# | 31,171# | 51,125# | 80,119# | 105,289# 26,250# 41,250# R10 1-1/4"ø * 1-1/2"ø * 1-5/8"ø ALL STEEL BEARING PLATES SHALL HAVE FULL BEARING CONTACT AREA ON <u>₩₩₩ ₩₩</u> 21,040# 46,406# 35,067# 57,516# 90,134# 118,451# G. WEB STIFFENERS SHALL BE ADDED TO ENGINEERED LUMBER "I" JOISTS AND WOOD MEMBERS. * HOLE SIZES INTENDED FOR 6" WALL TYPES ONLY. "I" JOIST MATERIAL USED AS BLOCKING. SEE NOTE "B" ABOVE. COUPLING NUT CONNECTION: CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY ENGINEER OF RECORD SHALL APPROVE THE USE THAT AT CONNECTIONS WITH THE SAME SIZE ROD THAT EACH ROD IS THREADED **JOB SPECIFIC NOTES:** OF THESE HOLE SIZES FOR 4" WALL TYPES. NOTES: 1) STUDS SHOWN ARE THE MINIMUM COMPRESSION MEMBERS REQUIRED FOR HALF WAY INTO COUPLER FROM EACH SIDE. HIGH STRENGTH (HS) COUPLERS SHALL THE EARTHBOUND SYSTEM. BE USED WITH HIGH STRENGTH (HS) RODS UNLESS NOTED OTHERWISE. STANDARD 2) DOUG FIR CALCULATION NOTES: (BASED ON 2005 NDS) STRENGTH COUPLERS ARE ZINC PLATED. HIGH STRENGTH (HS) ARE NOT PLATED. 2x4s, 2x6s, 3x4s (STUD GRADE): F'c PARALLEL = 850 PSI WHERE REDUCING COUPLERS ARE USED, COUPLER SHALL BE FULLY SEATED ON THE 8" MIN. @ — SLACKJACK[™] DEVICE 1-1/2" MAX PER FLOOR 4x4s AND LARGER (NO. 2 GRADE): F'c PARALLEL = 1350 PSI LARGER DIAMETER ROD BEFORE ENGAGING THE SMALLER DIAMETER ROD. FROM PLUMB Ç F'c PERPENDICULAR = 625 PSI FOR DOUG FIR PLATES. COLORS REFERENCED ON THIS DRAWING ARE PROVIDED FOR CONVENIENCE TO −SLACKJACK[™] DEVICE ∕ * DENOTES NO. OF BRIDGE TRIMMERS UNDER COMPRESSION BRIDGE. THE INSTALLER AND FOR INSPECTION PURPOSES. 4) ** DENOTES THAT FINAL POST HEIGHT SUBTRACTS 4 1/2" FOR 2x TOP PLATES AND 2x BOTTOM PLATE. (OR COUPLER) SILICONE OR CAULKING SHALL NOT BE PLACED INTO THE IMPASSE DEVICE OR ► FLOOR ABOVE ANY DRILLED HOLE FOR RODS AT ANY TIME. CONTRACTOR SHALL USE FIRE **ABBREVIATIONS COMPONENT SELECTION SCHEDULES** FACE NAILING RATED ROCKWOOL OR NON-HARDENING FIRESTOP. (PROVIDED BY OTHERS) -FLOOR JOIST OR EACH SIDE (TYP). SOLID BLOCKS (TYP) ANCHOR BOLT ASSEMBLIES AND EMBEDMENT DEPTHS ARE PROVIDED BY OTHERS. SEE NOTE #17 FOR ANCHOR BOLT PER ROD COMPONENT ALL REQUIREMENTS ANCHOR BOLTS ARE SHOWN FOR CONVENIENCE TO THE INSTALLER. EARTHBOUND THREADED ROD CAPACITIES (IBC 2006 - AISC 13th EDITION) **SCHEDULE** —REF. STUDS (TYP) BRIDGE TRIMMERS BLKG BLOCKING O. HOLDOWN RUN ELEVATION VIEWS ARE DIAGRAMS AND MAY NOT DEPICT THE ROD SIZE ALLOWABLE TENSION LOAD SLACKJACK COUPLER SIZE CORRECT NUMBER OF COLLECTOR STUDS REQUIRED. REFER TO COLLECTOR STUD ROD REMARKS -PLUMB (SIZE (INCHES) FND **FOUNDATION** PLAN DIAGRAMS FOR REQUIRED AMOUNT OF ADDITIONAL STUDS DEPENDING ON 1/2" DIA. 4,420 LBS SJA 214, 224, 414, 424 — SLACKJACK[™] DEVICE ASTM A 36 (UNC) SHEAR WALL FRAMING TYPE. ADDITIONAL COMPRESSION STUDS OR POSTS MAY HOT DIPPED GALVANIZED ROD OR GALV. TAPPED COMPONENT (OR COUPLER) -ROD (R) 5/8" DIA 6,900 LBS SJA 215, 225, 415, 425 ASTM A 36 (UNC) BE REQUIRED BY THE STRUCTURAL PLANS FOR DEAD AND LIVE LOADS COUPLER GALV. TAPPED ON BOTH ENDS GG SJA 216, 226, 416, 426 3/4" DIA 9,940 LBS ASTM A 36 (UNC) FLOOR BELOW CORROSION BARRIER CB . THIS DRAWING WILL BE REVIEWED BY THE ENGINEER OF RECORD. UPON APPROVAL, U.N.O R7 7/8" DIA 13,530 LBS SJA 217, 227, 417, 427 ASTM A 36 (UNC) THIS DRAWING REPLACES THE HOLDOWN SYSTEM PER THE STRUCTURAL PLANS. HIGH STRENGTH 17,670 LBS SJA 218, 228, 418, 428 1" DIA. ASTM A 36 (UNC) SJA 4XY SLACKJACKTM COMPONENT 12. ENGINEER OF RECORD SHALL VERIFY COMPLETE LOAD TRANSFER TO FOUNDATION 1 1/8" DIA. 22,370 LBS SJA 219, 229, 419, 429 ASTM A 36 (UNC) (X) = SLACKJACK DEVICE SERIES TRAVEL LEVEL INCLUDING ALL CODE REQUIRED LOAD FACTORS. ALLOWABLE ROD OFFSET TYP. BRIDGE INSTALLATION 1 1/4" DIA. 27,610 LBS SJA 2110, 2210, 4110, 4210, SJS 4110, 4210 1=1 INCH (RED), 2=2 INCHES (GREEN) ASTM A 36 (UNC) DETAIL 1 1/2" DIA. 13. WOOD FLOOR LEVELS SHOWN ARE RELATIVE TO THE CONCRETE FOUNDATION AND (Y) = ROD SIZE39,760 LBS SJS 4112, 4212 DETAIL ASTM A 36 (UNC) MAY NOT REFLECT THOSE SHOWN IN THE PLANS. 1 3/4" DIA. 54.120 LBS ASTM A 36 (UNC) ____ JOIST SCALE: NONE 1/2" DIA 9,200 LBS SJA 214, 224, 414, 424 R4HS ASTM A193 B7 (UNC) MINIMUM 0.C. R5HS 5/8" DIA 14.380 LBS SJA 215, 225, 415, 425 ON CENTER ASTM A193 B7 (UNC) PLATE R6HS 3/4" DIA 20,710 LBS SJA 216, 226, 416, 426 ASTM A193 B7 (UNC) NOTE: SOLID BLOCKING, PROVIDE ENOUGH SOLID 15. REFER TO THE COLLECTOR STUD SCHEDULE FOR WOOD STUD AND FLOOR PLATE РG PERPENDICULAR TO GRAIN R7HS 7/8" DIA SJA 217, 227, 417, 427 28,190 LBS ASTM A193 B7 (UNC) BLOCKING IN JOIST SPACE TO MATCH WIDTH OF MATERIALS USED IN LOAD CALCULATION ASSUMPTIONS. THE MATERIALS SHALL R8HS 36,820 LBS SJA 218, 228, 418, 428 1" DIA. ASTM A193 B7 (UNC) ALL COMPRESSION STUDS OR POSTS OF THE MATCH STRUCTURAL DRAWING REQUIREMENTS UNLESS NOTED OTHERWISE. 0 UNO UNLESS NOTED OTHERWISE R9HS 1/8" DIA. 46,590 LBS SJA 219, 229, 419, 429 ASTM A193 B7 (UNC) WALL BELOW. SUPP 16. FULL HEIGHT COLLECTOR STUD REQUIREMENTS: R10HS 1 1/4" DIA. 57,520 LBS SJA 2110, 2210, 4110, 4210, SJS 4110, 4210 ASTM A193 B7 (UNC) A. ALL FULL HEIGHT 2x4, 2x6, 3x4, 3x6, 4x4, & 4x6 COLLECTOR/COMPRESSION SHOP DRAWING DISCLAIMER 1 1/2" DIA. 14-1/2" MAX @ R12HS 82.830 LBS SJS 4112, 4212 14-1/2" MAX @ ASTM A193 B7 (UNC) STUDS SHALL RECEIVE NAILING PER THE SHEAR WALL SCHEDULE OF 1 3/4" DIA. 112,750 LBS R14HS ASTM A193 B7 (UNC) -SLACKJACKTM DEVICE/ -SLACKJACK^{'™} DEVICE/ THE STRUCTURAL PLANS, EXCEPT AT THE BRIDGE LEVEL (SEE NOTE 17-A). COMPENSATION DEVICE COMPENSATION DEVICE B. ALL FULL HEIGHT 6x AND LARGER COLLECTOR/COMPRESSION POSTS SHALL RECEIVE THESE SHOP DRAWINGS ILLUSTRATE THE DETAILS OF THE EARTHBOUND SEISMIC HOLDOWN SYSTEM. THEY WERE PREPARED IN CONFORMANCE WITH THE STRUCTURAL DESIGN PROVIDED TO EARTHBOUND SJA ROD SIZE CODES EARTHBOUND BEARING PLATE CAPACITIES TWO (2) ROWS OF EDGE NAILING PER THE SHEAR WALL SCHEDULE OF THE CORPORATION ("EB CORP.") BY THE PROJECT OWNER OR ITS REPRESENTATIVE. STRUCTURAL PLANS. PLATE DIFFERENTIAL PLATE DIMENSIONS (INCHES) PART ROD ROD WASHER C. WINDOW AND DOOR TRIMMERS MAY BE USED AS HOLDOWN COLLECTOR STUDS IF SIZE LOAD CODE THICK. EB CORP, TOOK NO PART IN THE PREPARATION OR REVIEW OF SAID STRUCTURAL DESIGN AND EB LENGTH DIAMETER COLOR THE FOLLOWING CONDITIONS ARE MET: CORP. DISCLAIMS ANY LIABILITY FOR IT. THE STAMP OR SEAL OF AN EB CORP. EMPLOYEE OR 4,000 LBS ORANGE 3-1/4SJA 2x4 or 4x4 R4 PURPLE - A CONTINUOUS VERTICAL LOAD PATH SHALL EXIST FROM WALL TOP PLTS. TO SOLID BLOCKING SOLID BLOCKING AGENT ON THESE SHOP DRAWINGS PERTAIN ONLY TO THE TRANSFER OF THE FORCES REQUIRED BY 8,000 LBS BLACK 3-1/4" 5/8" PER STRUCT. ENGR. SJA 2x5 or 4x5 BLACK WALL BOTTOM PLTS. THE ENGINEER OF RECORD ON THE STRUCTURAL DRAWINGS AND NOT TO THE ADEQUACY OF THE REQUIREMENTS. REQUIREMENTS. 0 10,000 LBS 3-1/4" BLUE R6 or R6HS GRAY - ALL WOOD MEMBERS IN THE CONTINUOUS VERTICAL LOAD PATH SHALL BE SJA 2x6 or 4x6 NAILED ACCORDING TO THE EARTHBOUND SYSTEM REQUIREMENTS. 12,000 LBS GRAY 3-1/4" 5/8" BLUE SJA 2x7 or 4x7 R7 or R7HS NO WARRANTY, EXPRESSED OR IMPLIED. AS TO THE ADEQUACY OF THE STRUCTURAL DESIGN IS - THE SHEAR PANEL MUST EXTEND TO INCLUDE THE TRIMMERS USED. 3/4" P14 14,000 LBS RED 3-1/4" SJA 2x8 or 4x8 R8 or R8HS YELLOW (2) 2x PLATES (2) 2x PLATES MADE BY ANY SUCH STAMP OR SEAL. COMPRESSION STUDS/POSTS SHALL BE INSTALLED SYMMETRICALLY ABOUT ROD. R9 or R9HS WHIT WHERE QUANTITY OF STUDS IS GREATER THAN THE SPACE BETWEEN ROD OR 20,000 LBS GREEN 3-1/2" R10 or R10HS GREEN **BASIC ANCHOR LAYOUT** BEARING PLATE AND THE END OF SHEAR WALL THE ADDITIONAL REQUIRED STUDS P22 3-1/2" 1 1/4" 1 1/2" 22,000 LBS WHITE R12 or R12HS RED SHALL BE ADDED TO THE OPPOSITE SIDE OF ROD (ASYMMETRICALLY). GOLD 3-1/2" 1 1/2" 24,000 LBS "x" = SLACKJACK TRAVEL IN "INCHES" TYP. SLACKJACK™ INSTALLATION E. WHERE MULTIPLE STUDS ARE USED PROVIDE EDGE NAILING AT PLYWOOD EDGE MEMBERS ONLY. REMAINDER OF STUDS SHALL BE FIELD NAILED. ---ANCHOR BOLT TENSION LOAD WAS CALCULATED FROM THE FOLLOWING EQUATION: <u>SLACKJACK</u>™ COLOR KEY A. A36 /A 307 Threaded Rod Capacities are F'u = 60,000 psi. UNC thread pitch HS Rods are based on ASTM A193 B7, F'u = 125,000 Ksi 17. COMPRESSION BRIDGE REQUIREMENTS: ANCHOR BOLT NOTES SHEAR WALL 1. CONTRACTOR SHALL BE RESPONSIBLE FOR B. The IBC 2006 column is calculated in accordance to AISC 13th Edition. A. ALL FULL HEIGHT 2x4, 2x6, 3x4, 3x6, 4x4, & 4x6 MEMBERS ON EITHER END \bigcirc SJA 418 COORDINATION OF WALL TYPE AND FRAMING 0 WASHER OF THE BRIDGE SHALL RECEIVE EDGE NAILING PER THE SHEAR WALL 2. PLATE STEEL SHALL BE ASTM A36: F'u = 60,000 PSI SEE COLOR LAYOUT BEFORE LOCATING ANCHOR BOLTS SCHEDULE OF THE STRUCTURAL PLANS. ALL SHEAR PANEL NAIL SPACING IN CONCRETE. B. ALL FULL HEIGHT 6x AND LARGER COLLECTOR/COMPRESSION POSTS ON EITHER . SUBSTITUTIONS OF DESIGNATED BEARING PLATE SHALL NOT BE PERMITTED, OBTAIN COLOR COLOR IS PER THE SHEAR WALL SCHEDULE SIDE OF THE BRIDGE SHALL RECEIVE TWO (2) ROWS OF EDGE NAILING ALLOWABLE ROD OFFSET 2. ALL DIMENSIONS ARE TYPICAL U.N.O. WRITTEN APPROVAL FROM THE ENGINEER PER THE SHEAR WALL SCHEDULE OF THE STRUCTURAL PLANS. DETAIL C. ALL BRIDGE TRIMMERS SHALL BE 2x MEMBERS ONLY (U.N.O.) AND SHALL BE 4. SLACKJACK SELECTION NOTES: 6 EDGE NAIL FULL HEIGHT MEMBER AT EACH END OF END OF SHEAR INSTALLED SYMMETRICALLY AS SHOWN (U.N.O.) THE SIZES SHOWN ABOVE ARE FOR BOTH ONE AND TWO INCH TRAVEL ("SJA 4xy") D. ALL BRIDGE TRIMMERS SHALL RECEIVE EDGE NAILING PER THE SHEAR WALL BRIDGE BLOCK. (x = TRAVEL HEIGHT IN INCHES, y = ROD SIZE). TWO INCH TRAVEL SLACKJACKS SCHEDULE OF THE STRUCTURAL PLANS (U.N.O.). **BEARING PLATE ORIENTATION** ARE REQUIRED ON FOURTH WOOD FRAME LEVELS AND HIGHER. E. THE BRIDGE TRIMMERS ADJACENT TO THE FULL HEIGHT STUDS (ONE EACH SIDE) NAILING OF BRIDGE BLOCK THIS TABLE IS FOR REFERENCE OF FULL PRODUCT LINE, SOME ROD AND PLATE SIZES SHALL RECEIVE FACE (STITCH) NAILING TWO (2) ROWS AT 4" O.C. IS PROHIBITED. STAGGERED ROWS ARE ACCEPTABLE BUT NOT REQUIRED. TRIMMERS IN ADDITION MAY NOT BE IN USE. THE ENGINEER OF RECORD SHALL REVIEW AND APPROVE CAPACITIES. TO ONE EACH SIDE DO NOT REQUIRE FACE (STITCH) NAILING. FACE NAILS MAY EDGE NAIL ALL BRIDGE BE NAILED FROM THE OPPOSITE DIRECTION THAN THAT SHOWN IN THE DETAIL. PANEL NAILING — FULL HEIGHT SLACKJACK' TRIMMERS. F. FACE NAILS SHALL BE 10d MINIMUM. USE 16d NAILS MINIMUM WHEN NAILING STUD TYP. DEVICE-THROUGH 3x STUDS INTO 2x BRIDGE TRIMMERS. Apt: 981 PULL CLIP SLACKJACK[™] ICC ESR-2848 LISTED CAPACITIES G. IF MULTIPLE BRIDGE TRIMMERS ON EACH SIDE ARE REQUIRED, DO NOT INSTALL BRIDGE TRIMMER FACE BEARING PLATE THE TRIMMERS IN ADDITION TO ONE EACH SIDE UNTIL THE FACE NAILING HAS (STITCH) NAILING PER COLOR CODE AND PART CROSS REFERENCE RUN TYPF FOR SHOP DRAWINGS. REQUIRED BEEN INSPECTED AND APPROVED. 0 SLACKJACK THREADED TRAVEL TRAVEL CAPTURE SWIVEL TOTAL NUMBER ON TWO (2) TRIMMERS H. BRIDGE BLOCK SHALL BE 4x6 DF IN 4x WALLS, 6x6 DF IN 6x WALLS (U.N.O.). OF TRIMMERS RING WASHER ROD DIFFERENTIAL RING ROD DIFFERENTIAL COMPENSATION BRIDGE BLOCK SHALL ALWAYS BE 5-1/2" TALL MINIMUM. REQUIRED. NO. DIAMETER CAPACITY **AMOUNT** COLOR DIAMETER | CAPACITY **AMOUNT** COLOR | COLOR NAILING OF BRIDGE BLOCK IS PROHIBITED. 7,360 LBS 1/2" 7,730 LBS 2-INCH YELLOW | PURPLE BRIDGE BLOCK SHALL BE DOUGLAS FIR CONSTRUCTION GRADE WITH MINIMUM BRIDGE LEVEL 7,360 LBS 5/8" 7,730 LBS 800 PSI ALLOWABLE BENDING STRESS. TIMBERSTRAND LSL BEAM MATERIAL 2-INCH SJA 215 1-INCH YELLOW | BLACK SHEAR WALL ←REQUIRED BRIDGE OF EQUAL OR GREATER DIMENSION IS AN ACCEPTABLE ALTERNATE (U.N.O.) 3/4" 7,730 LBS SJA 216 7,360 LBS 1-INCH BLUE 2-INCH YELLOW GRAY BOTTOM PLATE TRIMMER (TYP) HBOU J. BRIDGE HEIGHTS SHOWN ARE THE MINIMUM HEIGHT FROM SUBFLOOR TO BOTTOM 7/8" 7,360 LBS 7/8" 7,730 LBS OR BRIDGE. SJA 217 1-INCH BLUE BLUE 2-INCH YELLOW BLUE — ADDITIONAL OF BRIDGE MEMBER. NAILING TYP. TRIMMER(S) TYP. 7,730 LBS 7,360 LBS TYP. P- PLATE ORIENTATION SJA 218 1-INCH BLUE 2-INCH YELLOW | YELLOW 1 1/8" 7,360 LBS 1 1/8" 7,730 LBS SJA 229 SJA 219 1-INCH BLUE 2-INCH YELLOW | WHITE 18. DRILLED OR BORED HOLES: DRILLED HOLES THROUGH VERTICAL COMPRESSION MEMBERS & SAMPLE BRIDGE TRIMMER NAILING DETAIL 7,360 LBS SHALL NOT EXCEED 25% OF THE STUD OR POST WIDTH, FOR EXAMPLE: 7/8" DIA. HOLE 1 1/4" 1 1/4" 7,730 LBS SJA 2110 1-INCH BLUE GREEN 2-INCH YELLOW | GREEN SCALE: NONE IS MAXIMUM ALLOWED IN 3 1/2" WIDE STUD OR POST UNLESS APPROVED BY EOR. 14,000 LBS 1/2' 14,000 LBS SJA 414 1-INCH RED 2-INCH GREEN PURPLE THE BORED HOLE SHALL BE AT LEAST 5/8" AWAY FROM EDGE OF STUD. EB CORP JOB NO: SJA 415 5/8" 14,000 LBS 1-INCH RED 5/8" 14,000 LBS 2-INCH GREEN BLACK 9. CUTTING AND NOTCHING: WOOD VERTICAL COMPRESSION MEMBERS ARE PERMITTED TO BE 00001 3/4" 14,000 LBS SJA 416 14,000 LBS 1-INCH RED 2-INCH GREEN ALL STUDS EXCEPT COLLECTOR STUD DIAGRAM KEY ~ CUT OR NOTCHED TO A DEPTH NOT EXCEEDING 25% OF IT'S WIDTH PER 2308.9.10 PER IBC SHEAR WALL END 7/8" 14,000 LBS 14,000 LBS SJA 417 1-INCH RED 2-INCH GREEN BLUE 2003/06. FULL HEIGHT STUD. 14,000 LBS 14,000 LBS 1-INCH RED 2-INCH GREEN YELLOW COMPRESSION SHEET TITLE: 20. STUD/POST/TRIMMER NOTCHING AT CONFLICTING BEARING PLATES INTERFERENCE. 1 1/8" 14,000 LBS 1/8" 14,000 LBS 1-INCH 2-INCH GREEN WHITE APPROX. ROD LOCATION (TYP) A. THE MEMBER SHALL BE NOTCHED TO THE EXACT THICKNESS AND AREA OF THE STEEL MEMBER LEVELS 1 1/4" 14,000 LBS 1 1/4" 14,000 LBS SJA 4110 RED GREEN GREEN 1-INCH 2-INCH EARTHBOUND SEISMIC PLATE TO MAINTAIN THE FULL BEARING AREA OF THE NOTCHED COMPRESSION MEMBER. 9,000 LBS 20,340 LBS EDGE NAILING ON HOLDOWN SYSTEM ANCHOR BOLT LAYOUT DIMENSION (TYP) 1-INCH ORANGE 1-INCH TAN PURPLE B. IF THE REQUIREMENTS OF ITEM "A" ABOVE ARE NOT MET, THEN ADDITIONAL SHEAR WALL END COMPRESSION MEMBERS SHALL BE ADDED TO ACHIEVE THE REQUIRED TOTAL BEARING SJT 415 5/8" 9,000 LBS 5/8" 20,340 LBS INSTALLATION DRAWING 1-INCH 1-INCH TAN BLACK STUD. AREA. ADDITIONAL COMPRESSION MEMBERS SHALL RECEIVE SHEAR PANEL NAILING 9,000 LBS 3/4" 20,340 LBS SJT 416 1-INCH ORANGE 1-INCH TAN GRAY ICC-ES ESR-2848 WOOD SPECIES: PER THE REQUIREMENTS OF THE EARTHBOUND SHOP DRAWINGS. -STUD OR POST (TYP) 7/8" 20,340 LBS FRAMING LVL. AND HEIGHT-9,000 LBS SJT 417 ORANGE 1-INCH TAN BLUE

9,000 LBS

9,000 LBS

9,000 LBS

1 1/4" 22,000 LBS

1 1/2" 22,000 LBS

1 1/8"

1 1/4"

1-INCH

1-INCH

1-INCH

ORANGE | YELLOW

RED

SLACKJACKTM COLOR CODE TABLE

TRAVEL HEIGHT AND ROD SIZE COORDINATION

BLUE

SJT 418

SJT 419

SJT 4110

-STUD/POST (QTY) & DESCRIPTION (TYP)

1. * (ASTERISK) INDICATES 1/2 HEIGHT TRIMMER (UNLESS NOTED OTHERWISE)

THE UPLIFT TENSION FORCES CALLED OUT BY THE STRUCTURAL DWGS.

ADDITIONAL COMPRESSION STUDS OR POSTS MAY BE REQUIRED BY STRUCTURAL ENGINEER OF RECORD. APPLIES TO ALL HOLDOWN RUNS.

2. COLLECTOR STUDS SHOWN ARE THE MINIMUM REQUIREMENT TO EQUAL

END MEMBERS (TYP)

FOR COMPRESSION BRIDGE

20,340 LBS

20,340 LBS

20,340 LBS

1 1/4" | 22,000 LBS

1 1/8"

1 1/4"

SJS 4212 1 1/2" 22,000 LBS

1-INCH

1-INCH

1-INCH

2-INCH

2-INCH

TAN YELLOW

YELLOW | GREEN

YELLOW RED

WHITE

GREEN

TAN

TAN

C. PLYWOOD SHIMS MATCHING THE EXACT THICKNESS OF THE STEEL BEARING PLATE MAY

BE USED IN LIEU OF NOTCHING. ALL ADDITIONAL REQUIREMENTS ABOVE SHALL BE

21. MINIMUM REQUIREMENTS FOR BLOCKING IN THE JOIST SPACE AT HOLDOWN LOCATIONS ARE:

A. BLOCKING SHALL SPAN THE FULL WIDTH OF THE SHEAR WALL TOP PLATE OF THE

FLOOR LEVEL BELOW THE JOIST SPACE.

NAILING SAMPLE

For more information about the Earthbound Holdown System, visit http://www.holdown.com

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SEE SHOP DRAWING GENERAL NOTES FOR NAILING

REQUIREMENTS WHEN POSTS ARE USED

06/03/10

SHEET NO.

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