

OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

| APPLICATION FOR OSHPD PREAPPROVAL | OFFICE USE ONLY |
|---|---|
| OF MANUFACTURER'S CERTIFICATION (OPM) | APPLICATION #: OPM-0349-13 |
| | |
| OSHPD Preapproval of Manufacturer's Certification (OPM) | |
| Type: New Renewal Update to Pre-CBC 2013 O | PA Number: |
| Manufacturer Information | |
| Manufacturer: Eagle Group | |
| Manufacturer's Technical Representative: Tim Oliphant | |
| Mailing Address: 100 Industrial Blvd., Claytor | n, DE 19938 |
| Telephone: (302) 653-3169 | nt@eaglegrp.com |
| Product Information | OMB |
| Product Name:QuadTruss [®] Wire Shelves, Solid Shelves, Quad-Adjus | t [®] Shelves, QuadPLUS™ |
| Product Type: Wire and solid shelving products and accessories | P Z |
| Product Model Number: Eagle Shelving, Quad-Adjust, QuadPLUS, a | and Eagle Solid Shelving |
| General Description: Wire and solid shelving system with the ability to | |
| inch increments. DATE: 09/15/2016 | ET |
| F- | |
| Applicant Information | A. |
| Applicant Company Name: Eagle Group | 30 ¹ |
| Contact Person: Tim Oliphant | |
| Mailing Address: 100 Industrial Blvd., Clayton, DE 19938 | |
| Telephone: (302) 653-3169 Email: toliphar | nt@eaglegrp.com |
| I hereby agree to reimburse the Office of Statewide Health F accordance with the California Administrative Code, 2016. | Planning and Development review fees in |
| Signature of Applicant: Timethy Oliphant | Date: May 20, 2016 |
| Title: R & D Supervisor Company Name: Eagle C | Group |
| "Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs" STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY OSH-FD-700 (REV 12/16/15) | Page 1 of 2 |



OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

| Registered Design Professional Preparing Engineering Recommendations |
|--|
| Company Name: CYS Structural Engineers, Inc. |
| Name: Dieter T. Siebald California License Number: S4346 |
| Mailing Address: 2495 Natomas Park Drive, Suite #650, Sacramento, CA 95833 |
| Telephone: (916) 920-2020 Email: dieters@cyseng.com |
| OSHPD Special Seismic Certification Preapproval (OSP) |
| Special Seismic Certification is preapproved under OSP- (Separate application for OSP is required) Special Seismic Certification is not preapproved |
| Certification Method(s) |
| Testing in accordance with: ICC-ES AC156 FM 1950-15 Other* (Please Specify): |
| *Use of criteria other than those adopted by the California Building Standards Code, 2016 (CBSC 2016) for component supports and attachments are not permitted. For distribution system, interior partition wall, and suspended ceiling seismic bracings, test criteria other than those adopted in the CBSC 2016 may be used when approved by OSHPD prior to testing. Analysis Combination of Testing, Analysis, and/or Experience Data (Please Specify): |
| List of Attachments Supporting the Manufacturer's Certification |
| □ Test Report ☑ Drawings ☑ Calculations □ Manufacturer's Catalog □ Other(s) (Please Specify): |
| OFFICE USE ONLY – OSHPD APPROVAL VALID FOR CBC 2016 & ALL PRE-2016 CODE BASED PROJECTS |
| Signature: Omega Date: 09-15-2016 Print Name: Jeffrey Enzler Image: Second Seco |
| "Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs" STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY OSH-FD-700 (REV 12/16/15) Page 2 of 2 |

EAGLE GROUP QuadTruss® Wire Shelves, Solid Shelves, Quad-Adjust® Shelves, QuadPLUS™



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| ATTACHMENT DETAIL OF FOOTPLATE TO POST ATTACHMENT DETAIL TO CONCRETE FILL OVER METAL DECK (CASE 1) ATTACHMENT DETAIL TO 5" SLAB ON GRADE (CASE 2) | 16 |
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| NOTES: 1. THESE DRAWINGS ARE PREPARED FOR EAGLE GROUP, CLAYTON, DELAWARE. | |
| 2. THE CONTRACTOR AND INSPECTOR OF RECORD SHALL OBTAIN A COPY OF THIS PRE-APPROVAL FROM THE OFFICE OF STATEWIDE HEALTH PLANNING & DEVELOPMENT (OSHPD) PRE-APPROVAL PROGRAMS WEBSITE. | PROFESSION |
| 3. THIS PRE-APPROVAL COVERS THE SUPPORTS AND ATTACHMENTS OF THE EQUIPMENT TO THE SUPPORTING STRUCTURE. THE EQUIPMENT & ATTACHMENT HARDWARE ARE SUPPLIED BY THE MANUFACTURER. THE EXPANSION ANCHORS, THRU-BOLTS & STRUT PLATES SHOWN IN THIS OPM SHALL BE SUPPLIED AND INSTALLED BY THE CONTRACTOR. | No. S4346 |
| IEET TITLE: TABLE OF CONTENTS | |
| CYS STRUCTURAL ENGINEERS, INC. 2495 NATOMAS PARK DRIVE, SUITE 650 SACRAMENTO, CA 95833 CYS STRUCTURAL ENGINEERS, INC. TEL (916) 920-2020 Www.cyseng.com Page: | o: 16010 08-09-2016 1 of 19 |

QuadTruss® Wire Shelves, Solid Shelves, Quad-Adjust® Shelves, QuadPLUS™ **GENERAL NOTES:** 1. THIS OSHPD PRE-APPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE CBC 2013. THE DEMAND (DESIGN FORCES) FOR USE WITH THIS OPM SHALL BE BASED ON THE CBC 2013. 2. IT IS THE RESPONSIBILITY OF THE STRUCTURAL ENGINEER OF RECORD (SEOR) FOR A SITE SPECIFIC **PROJECT TO VERIFY:** THE ADEQUACY OF THE NEW OR EXISTING STRUCTURE TO RESIST THE FORCES & WEIGHT SPECIFIED FOR EACH COMPONENT IN ADDITION TO ALL OTHER LOADS. PROVIDE & DESIGN SUPPLEMENTARY MEMBERS AS REQUIRED. THAT THE FLOOR ANCHORS ARE LOCATED AT AN ADEQUATE DISTANCE FROM ANY SLAB EDGES OR OPENINGS. THAT THE FLOOR ANCHORS ARE LOCATED AT AN ADEQUATE DISTANCE FROM ANY NEW OR EXISTING ANCHORS. THE SPACING SHOWN IN THE TEST LOADS TABLE ON PAGE 3 IS THE REQUIRED MINIMUM SPACING OF THE GIVEN DIAMETER ANCHORS. THE REQUIRED SPACING FROM ANCHORS OF OTHER DIAMETERS & EMBEDMENTS MAY VARY & SHALL BE EVALUATED BY THE SEOR.

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- THAT THE INSTALLATION IS IN CONFORMANCE WITH THE CBC 2013 & WITH THE DETAILS SHOWN IN D THIS PRE-APPROVAL.
- THAT THE ACTUAL COMPONENT'S WEIGHT, CENTER OF GRAVITY (CG) LOCATION, ANCHOR LOCATIONS, ANCHOR DETAILS, & THE MATERIAL & GAGE OF THE COMPONENT WHERE ATTACHMENTS ARE MADE, AGREE WITH THE INFORMATION SHOWN ON THE PRE-APPROVAL DOCUMENTS.
- 3. EXPANSION ANCHORS INSTALLED IN NORMAL WEIGHT CONCRETE SHALL BE CARBON STEEL HILTI KB-TZ EXPANSION ANCHORS COMPLYING WITH ESR-1917 REISSUED MAY 2015.
 - INSTALLATION: INSTALL THE EXPANSION ANCHORS IN ACCORDANCE WITH THE REQUIREMENTS GIVEN IN THE ICC EVALUATION REPORT FOR THE SPECIFIC ANCHOR & THE PARAMETERS GIVEN IN THE TABLE ON PAGE 3.
 - JOB TESTING: FOR VERIFYING SATISFACTORY INSTALLATION WORKMANSHIP, PERFORM JOB SITE TESTING B. IN ACCORDANCE WITH THE TEST LOAD TABLE PROVIDED IN THIS DOCUMENT. TEST 50% OF THE INSTALLED ANCHORS. THE TEST LOAD MAY BE APPLIED BY ANY METHOD THAT WILL EFFECTIVELY MEASURE THE TORQUE IN THE ANCHOR SUCH AS CALIBRATED TORQUE WRENCH METHOD. ALL TESTS SHALL BE CONDUCTED IN THE PRESENCE OF THE INSPECTOR OF RECORD (IOR). IF ANY ANCHOR FAILS THE TEST, TEST ALL ANCHORS. THE TEST SHALL BE PERFORMED 24 HOURS OR MORE AFTER INSTALLATION. TESTING MAY BE DONE PRIOR TO COMPONENT INSTALLATION. ALSO REFER TO CBC 1913A.7 "TESTS FOR POST-INSTALLED ANCHORS IN CONCRETE".
 - C. FAILURE/ACCEPTANCE CRITERIA: THE FOLLOWING CRITERIA APPLY FOR THE ACCEPTANCE OF INSTALLED **ANCHORS:**
 - TORQUE WRENCH METHOD: THE APPLICABLE TEST TORQUE MUST BE REACHED WITHIN THE FOLLOWING LIMITS: WEDGE TYPE: ONE-HALF (3/) TURN OF THE NUT.

SHEET TITLE: GENERAL NOTES



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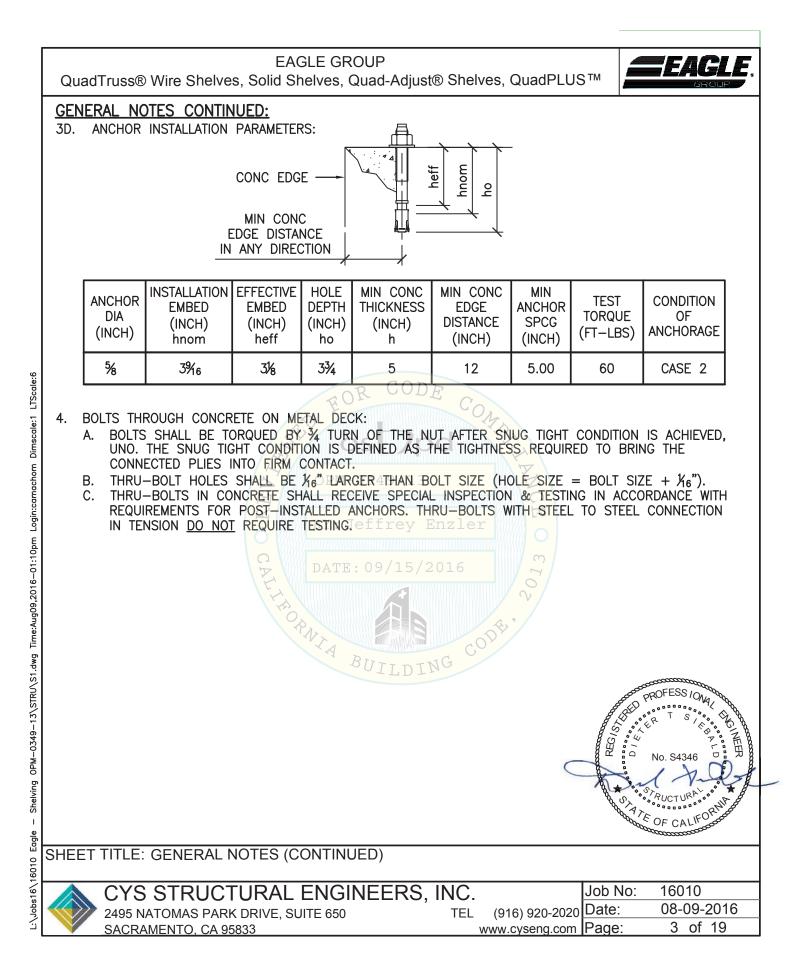
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C.

| CYS STRUCTURAL ENGINEERS, | INC. | | Job No: | 16010 |
|------------------------------------|------|----------------|---------|------------|
| 2495 NATOMAS PARK DRIVE, SUITE 650 | TEL | (916) 920-2020 | Date: | 08-09-2016 |
| SACRAMENTO, CA 95833 | | www.cyseng.com | | 2 of 19 |

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GENERAL NOTES CONTINUED: 5. TWO (2) CASES OF ATTACHMENT ARE SPECIFIED & PRESENTED IN THIS PRE-APPROVAL: z/h CASE 1: ATTACHMENT DETAILS LOCATED AT UPPER FLOORS 1 ROOF ABOVE THE BASE OF A BLDG ($z/h \le 0.9$). THE FLOORS ARE ASSUMED TO BE BUILT OF A MIN 31/4" SLWC TOPPING OVER ⅔ 3RD FLR MIN 20 GA MTL DECK (f'c = 3000 PSI, MIN). 屴 _ 2ND FLR CASE 2: ATTACHMENT DETAILS LOCATED AT OR BELOW THE 0 BASE BASE OF A BLDG (z/h=0). THE FLOORS ARE ASSUMED TO BE BUILT OF A MIN 5" NWC SLAB (f'c = 3000 PSI, MIN). BASEMENT 0 **BLDG ELEV** THIS PRE-APPROVAL MAY BE USED AT ANY GEOGRAPHICAL LOCATION IN THE STATE OF CALIFORNIA 6. WHERE SDS (OR FD) IS LESS THAN OR EQUAL TO THE VALUE SPECIFIED FOR A GIVEN SHELVING UNIT SIZE AS PRESENTED ON PG 6 & 7. **ABBREVIATIONS:** 0 AT GA GAUGE REQ REQUIRED ASCE AMERICAN SOCIETY OF CIVIL STRUCTURAL ENGINEER OF 100 INTERNATIONAL CODE SEOR ENGINEERS COUNCIL RECORD ASTM IN (") AMERICAN SOCIETY FOR INCH SIM SIMILAR **TESTING & MATERIALS** INFO PM -INFORMATION SLWC SAND-LIGHTWEIGHT CONCRETE BLDG BUILDING SPCG SPACING KIPS PER SQUARE INCH KSI STANDARD BOTT BOTTOM STD LBS POUNDS CBC CALIFORNIA BUILDING CODE LRFDY : JLOAD AND RESISTANCE STL STEEL CG CENTER OF GRAVITY FACTOR DESIGN Tu ANCHORAGE TENSION REACTION Ç CENTERLINE DUE TO SEISMIC FORCE MAX MAXIMUM **TYPICAL** CONC CONCRETE MFR ATE MANUFACTURER 016 TYP COORD COORDINATE MIN MINIMUM **T&B** TOP & BOTTOM Vu∕ ANCHORAGE SHEAR REACTION CTR CENTER MTL METAL NUMBER OR POUNDS DUE TO SEISMIC FORCE DIA (Ø) DIAMETER NO. (#) W/ WITH NORMAL WEIGHT CONCRETE EACH NWC EA OPERATING WEIGHT ELEV Wp **ELEVATION** OUTSIDE DIAMETER 0D < WT WEIGHT OPG OPENING EQ EQUAL OSHPD PRE-APPROVAL OF f'c MIN ULTIMATE COMPRESSIVE OPM REG/S/ STRENGTH OF CONCRETE MANUFACTURER'S CERTIFICATION FLR **FLOOR** OSHPD OFFICE OF STATEWIDE HEALTH PLANNING & DEVELOPMENT FT (') FOOT/FEET PERP HORIZONTAL SEISMIC FORCE PERPENDICULAR Fp PER ASCE 7-10 SEISMIC PG PAGE P PLATE FORCE REQUIREMENTS SPECIFIED MINIMUM YIELD PSI POUNDS PER SQUARE INCH F, STRESS OF STEEL PSF POUNDS PER SQUARE FOOT ATE OF CALIF

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| SHEEL | IIILE: GENERAL NOTES (CONTINUED) | | | | |
|-------|------------------------------------|------|----------------|---------|------------|
| | ABBREVIATIONS | | | | |
| | CYS STRUCTURAL ENGINEERS, | INC. | | Job No: | 16010 |
| | 2495 NATOMAS PARK DRIVE, SUITE 650 | TEL | (916) 920-2020 | Date: | 08-09-2016 |
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SHELVING SCHEDULES FOR UPPER FLOORS

THE FOLLOWING TABLES PRESENT EACH AVAILABLE SHELVING UNIT SIZE & IT'S CORRESPONDING MAX SDS & MAX F, WHERE IT MAY BE INSTALLED PER THE DETAILS OF THIS OPM. THE TABLES ONLY APPLY TO SHELVING UNITS MEETING ALL OF THE CRITERIA GIVEN IN THE TABLE FOOTNOTES.

MAX S_{DS} (when $z/h \le 0.9$)

| HEIGHT | | LENGTH (IN) | | | | | | | |
|--------|------|-------------|------|------|------|------|------|------|--|
| (IN) | 24 | 30 | 36 | 42 | 48 | 54 | 60 | 72 | |
| | 2.45 | | | | | | | | |
| 86 | 2.50 | | | | | | | | |
| 74 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.40 | 2.15 | 1.80 | |
| 63 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.25 | |

MAX F_p (dependent on S_{DS} & z/h)

| HEIGHT | LENGTH (IN) | | | | | | | | |
|--------|-----------------|------|------|------|------|------|------|------|--|
| (IN) | IN) 24 30 36 42 | | 48 | 54 | 60 | 72 | | | |
| 96 | 1.65 | 1.61 | 1.44 | 1.28 | 1.14 | 1.04 | 0.94 | 0.81 | |
| | | | | | | | | 1.08 | |
| 74 | | | | | | | | 1.21 | |
| 63 | 1.68 | 1.68 | 1.68 | 1.68 | 1.68 | 1.68 | 1.68 | 1.51 | |

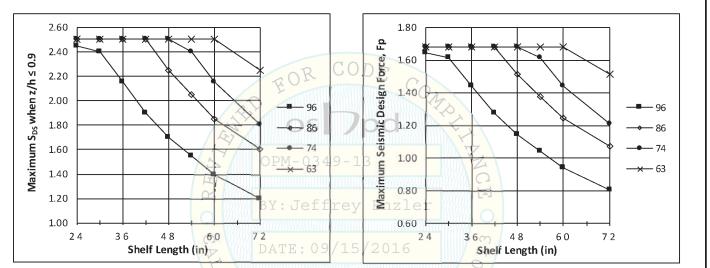


TABLE FOOTNOTES

- 1. UNITS MAY HAVE WIRE SHELVES OR SOLID SHELVES.
- 2.
- UNIT WIDTHS MAY BE 14", 18", 21", 24" OR 30". UNIT LENGTHS RANGE FROM 24" TO 72" AS PER TABLES ABOVE. 3.
- 4. MAX WEIGHT OF CONTENT IS 20 PSF PER SHELF.
- 96" HIGH UNITS MAY HAVE A MAX OF 6 SHELVES. 5.
- 86" & 74" HIGH UNITS MAY HAVE A MAX OF 5 SHELVES. 6.
- 63" HIGH UNITS MAY HAVE A MAX OF 4 SHELVES. 7

9 TE OF CAL SHEET TITLE: SHELVING SCHEDULES FOR UPPER FLOORS CYS STRUCTURAL ENGINEERS, INC. Job No: 16010 (916) 920-2020 Date: 08-09-2016 2495 NATOMAS PARK DRIVE, SUITE 650 TEL 6 of 19 SACRAMENTO, CA 95833 www.cyseng.com Page:

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SHELVING SCHEDULES FOR SLAB ON GRADE

THE FOLLOWING TABLES PRESENT EACH AVAILABLE SHELVING UNIT SIZE & IT'S CORRESPONDING MAX SDS & MAX F, WHERE IT MAY BE INSTALLED PER THE DETAILS OF THIS OPM. THE TABLES ONLY APPLY TO SHELVING UNITS MEETING ALL OF THE CRITERIA GIVEN IN THE TABLE FOOTNOTES.

MAX S_{DS} (when z/h = 0)

| HEIGHT | | LENGTH (IN) | | | | | | | | | |
|--------|------|-------------|------|------|------|------|------|------|--|--|--|
| (IN) | 24 | 30 | 36 | 42 | 48 | 54 | 60 | 72 | | | |
| 96 | 2.50 | 2.50 | 2.50 | 2.40 | 2.20 | 2.00 | 1.80 | 1.55 | | | |
| 86 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.40 | 2.05 | | | |
| 74 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.30 | | | |
| 63 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | | | |

MAX F_{p} (dependent on S_{DS} with z/h = 0)

| ، ۳ | | | | | | | | | | |
|--------|-------------|------|------|------|------|------|------|------|--|--|
| HEIGHT | LENGTH (IN) | | | | | | | | | |
| (IN) | 24 | 30 | 36 | 42 | 48 | 54 | 60 | 72 | | |
| 96 | 1.13 | 1.13 | 1.13 | 1.08 | 0.99 | 0.90 | 0.81 | 0.70 | | |
| 86 | 1.13 | 1.13 | 1.13 | 1.13 | 1.13 | 1.13 | 1.08 | 0.92 | | |
| 74 | 1.13 | 1.13 | 1.13 | 1.13 | 1.13 | 1.13 | 1.13 | 1.04 | | |
| 63 | 1.13 | 1.13 | 1.13 | 1.13 | 1.13 | 1.13 | 1.13 | 1.13 | | |

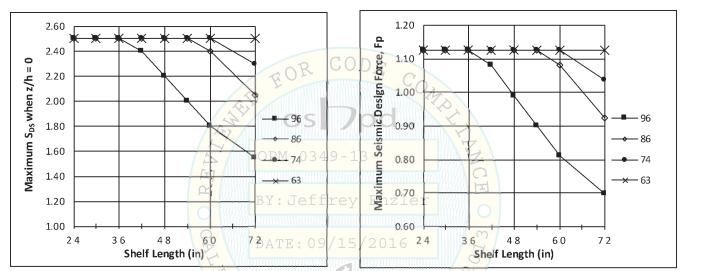
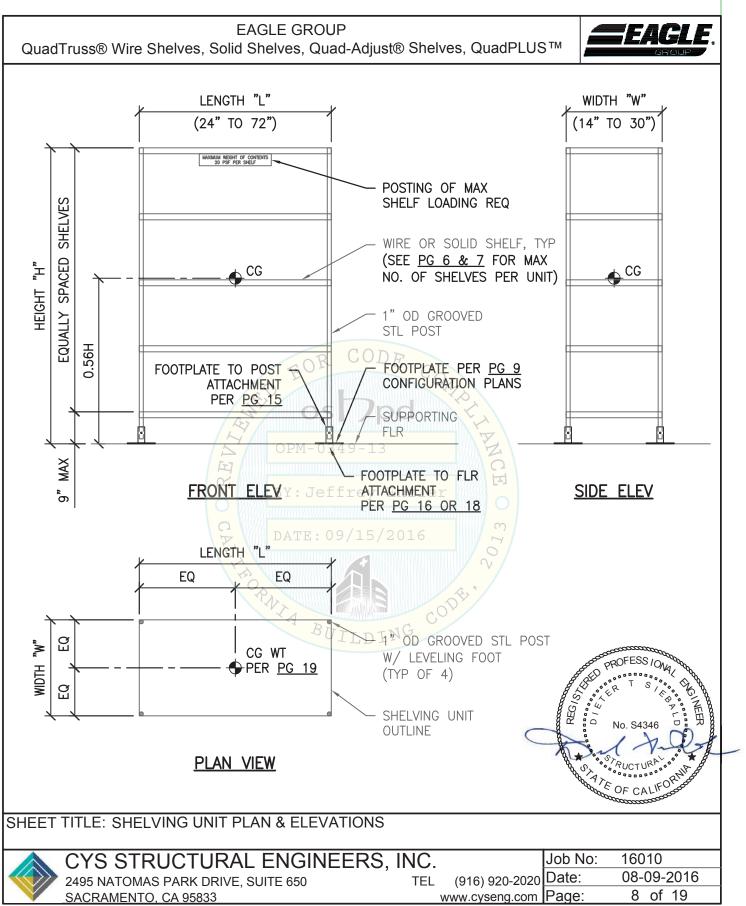


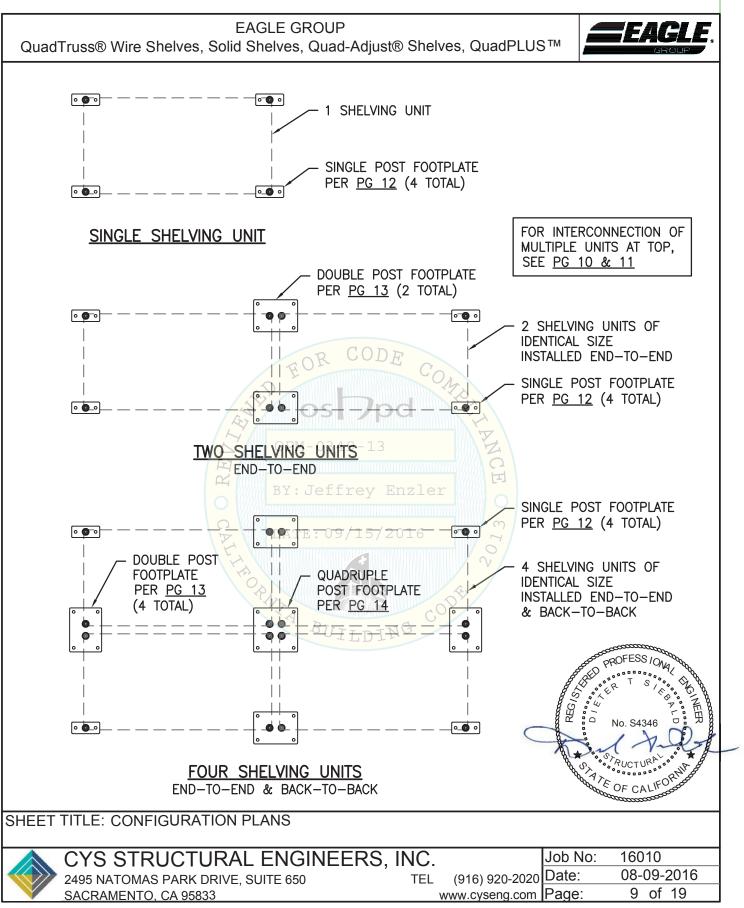
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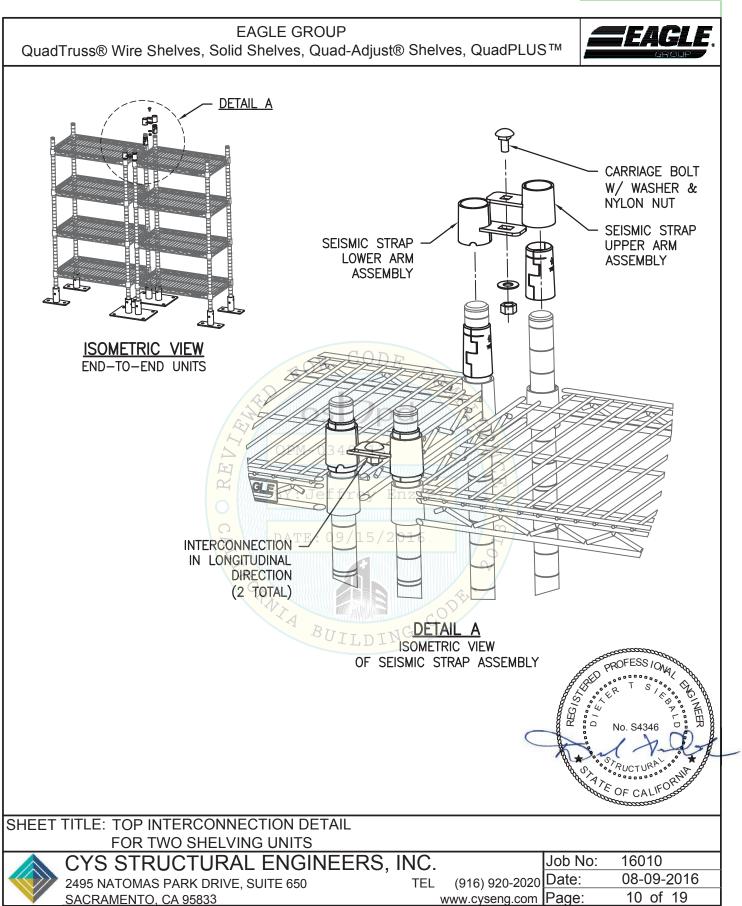
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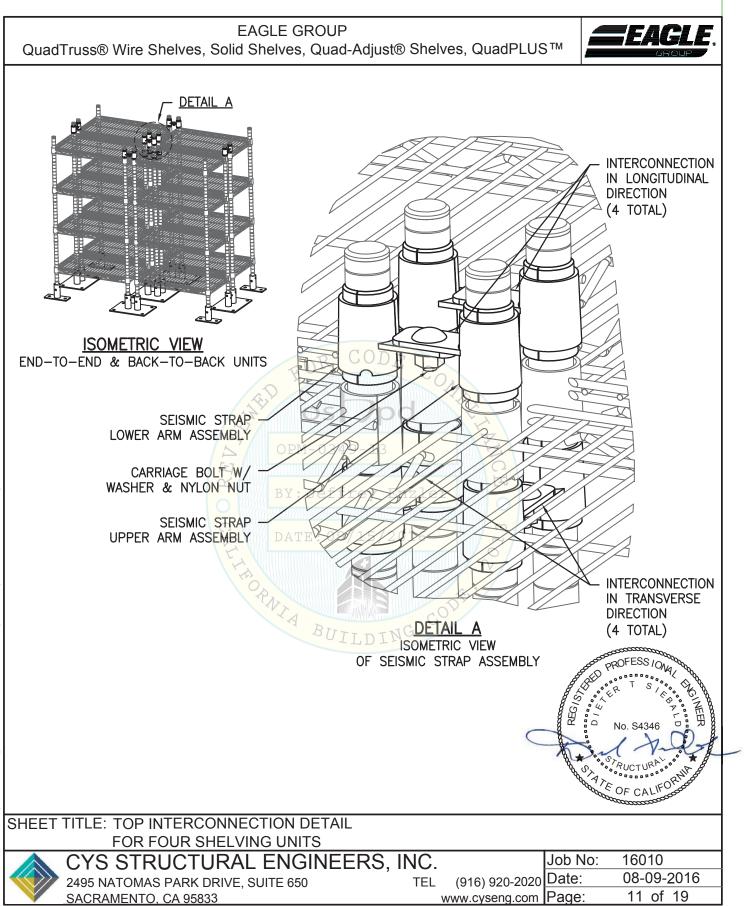
TE OF CAL SHEET TITLE: SHELVING SCHEDULES FOR SLAB ON GRADE CYS STRUCTURAL ENGINEERS, INC. Job No: 16010 (916) 920-2020 Date: 08-09-2016 2495 NATOMAS PARK DRIVE, SUITE 650 TEL 7 of 19 www.cyseng.com Page: SACRAMENTO, CA 95833

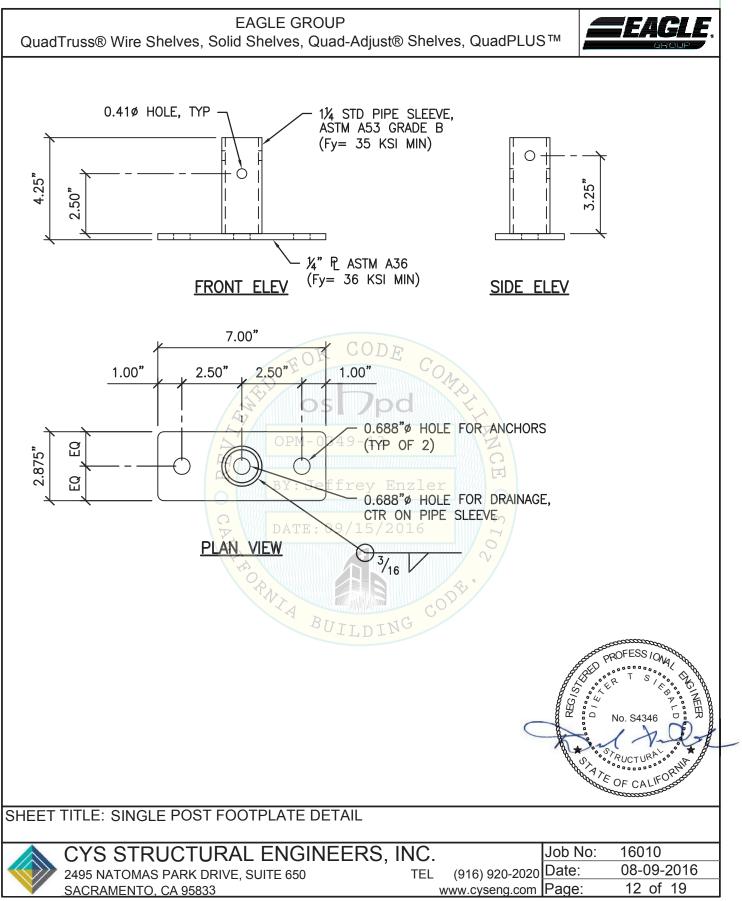
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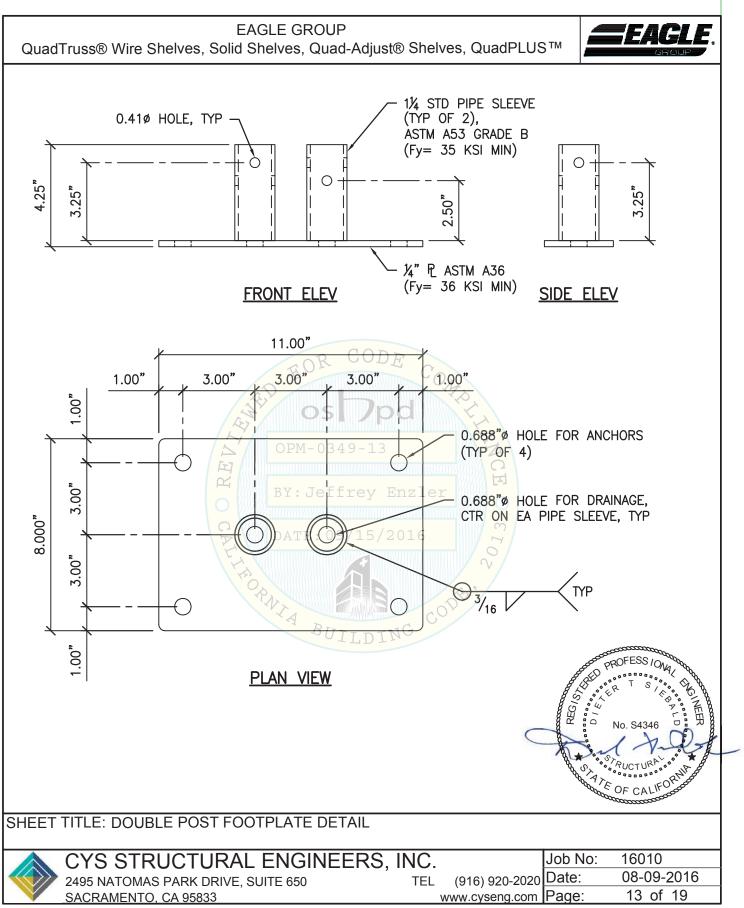


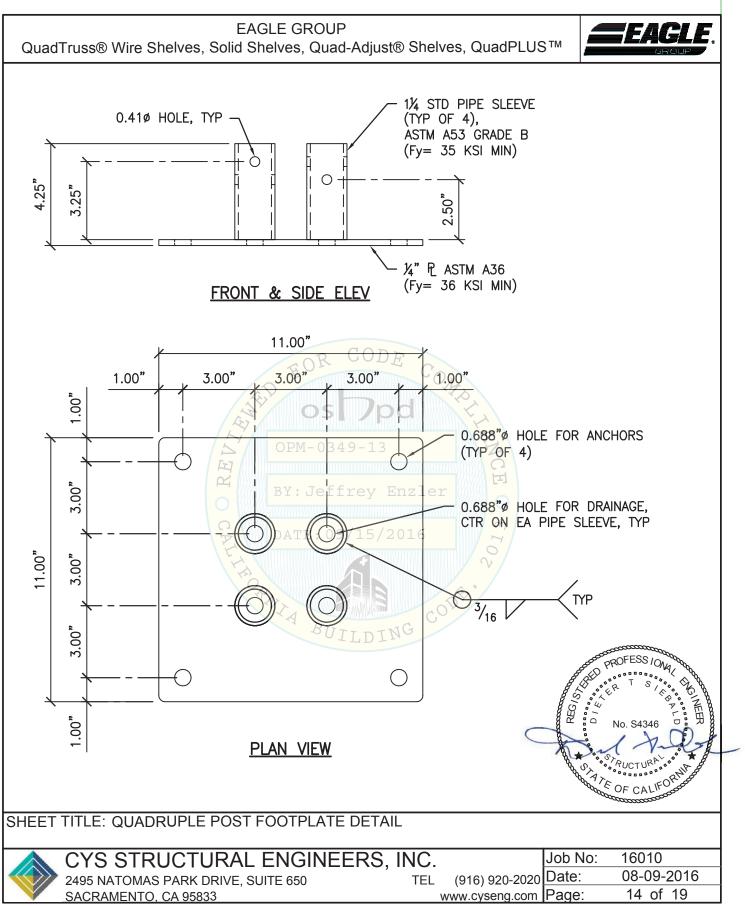


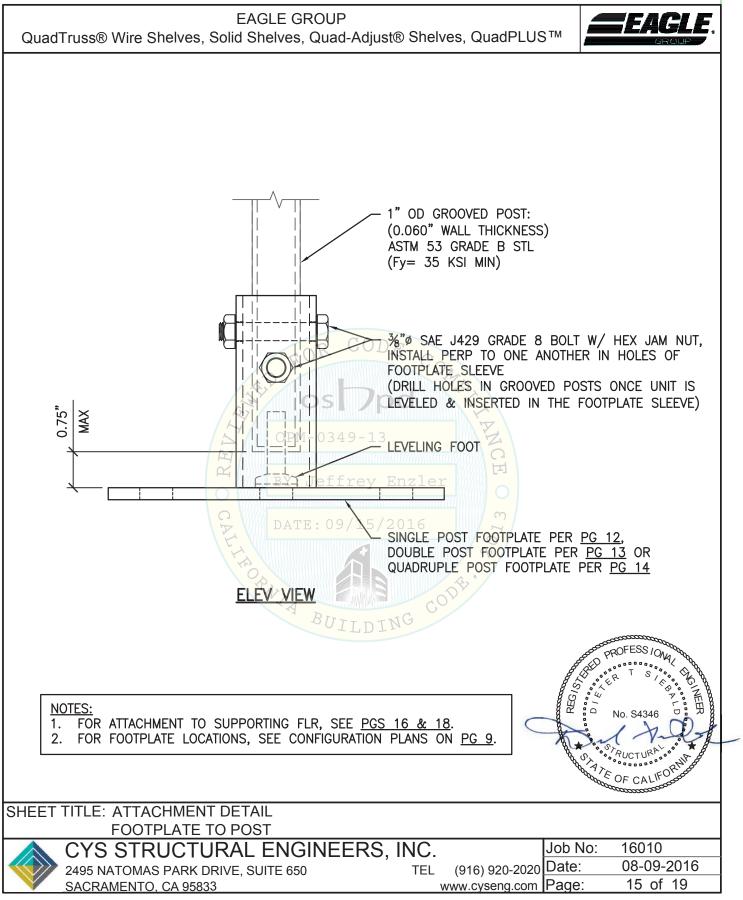


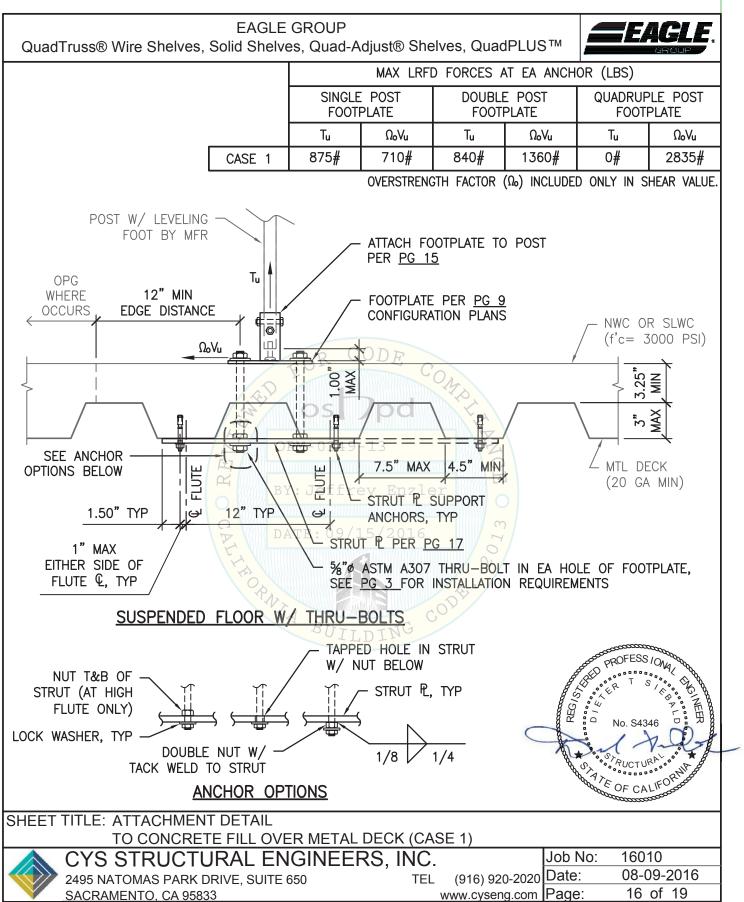


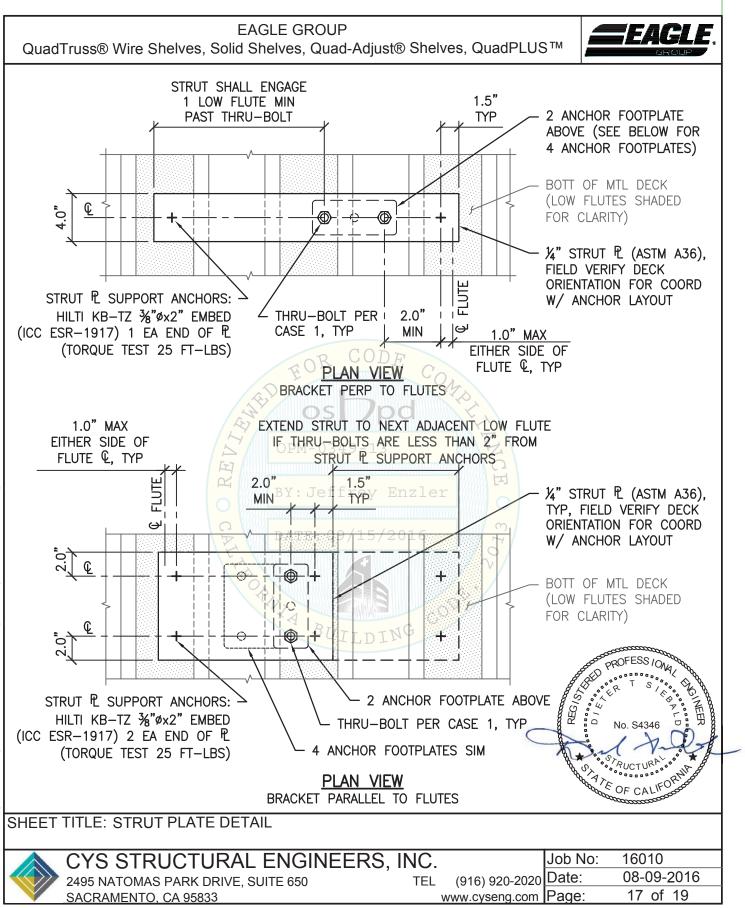


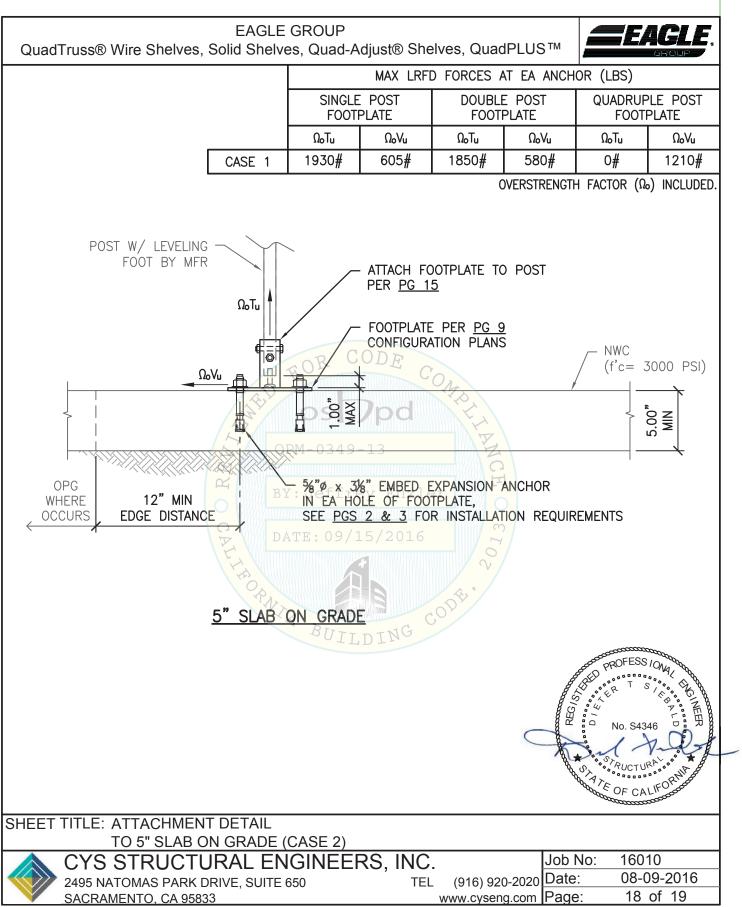












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SHELVING UNIT WEIGHTS

THE FOLLOWING TABLES PRESENT THE OPERATING WEIGHT, W_P , FOR EACH AVAILABLE SHELVING UNIT SIZE. THE OPERATING WEIGHT IS THE SUM OF MAXIMUM ASSEMBLED UNIT WEIGHT FOR SOLID SHELVES PLUS CONTENT WEIGHT OF 20 PSF PER SHELF.

SHELVING UNIT WEIGHT (including content)

| POST HEIGHT | NUMBER OF | WIDTH | | | | LENG | ΓH (IN) | | | |
|-------------|-----------|-------------|-----------------|-----------------|--------------|----------------------|---------|------|------|------|
| (IN) SHE | SHELVES | (IN) | 24 | 30 | 36 | 42 | 48 | 54 | 60 | 72 |
| | | 14 | 362 | 444 | 526 | 602 | 684 | 772 | 854 | 1018 |
| | | 18 | 448 | 550 | 658 | 760 | 862 | 964 | 1072 | 1270 |
| 96 | 6 | 21 | 520 | 637 | 760 | 883 | 1000 | 1117 | 1240 | 1462 |
| | | 24 | 592 | 724 | 856 | 1000 | 1126 | 1264 | 1408 | 1660 |
| | | 30 | - | 886 | 1066 | 1246 | 1402 | 1576 | 1756 | 2098 |
| | 5 | 14 | 303 | 372 | 440 | 503 | 572 | 645 | 713 | 850 |
| | | 18 | 375 P | 4600 | D 550 | 635 | 720 | 805 | 895 | 1060 |
| 74 OR 86 | | 21 | 435 | 533 | 635 | 738 | 835 | 933 | 1035 | 1220 |
| | | 24 | 495 | 605 | 715 | 835 | 940 | 1055 | 1175 | 1385 |
| | | 30 | - | 740 | 890 | 1040 | 1170 | 1315 | 1465 | 1750 |
| | | <u>⊳</u> 14 | 0 241-0 | 34 295 1 | B 350 | 401 | 2455 | 514 | 569 | 678 |
| | | 18 | 298 | 366 | 438 | 506 | 574 | 642 | 714 | 846 |
| 63 | 4 | 21 | BY 346 e | f 1424 y | E5061 | er <mark>5</mark> 88 | 666 | 744 | 826 | 974 |
| | | 24 | 394 | 482 | 570 | 6 <mark>66</mark> | 750 | 842 | 938 | 1106 |
| | | > 30 | DATE: | 095905, | 270106 | 830 | 934 | 1050 | 1170 | 1398 |

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