

## Introduction

AccuCrete® Brand Underlayments are manufactured by Arcosa Specialty Materials. We have been mining materials for our construction products for over 40 years. AccuCrete® applicators are in most major markets throughout North America and Canada.

|  | NexGen®    | Prime®     | Prepour®               | AccuRadiant®           | G40®  | G50®  | H40®              |
|--|------------|------------|------------------------|------------------------|---|---|-------------------|
| ASTM C472  | •          | •          | •                      | •                      | •   | •   |                   |
| ASTM C109  |            |            |                        |                        |   |   | •                 |
| PSI Range  | 2000-3500  | 2500-4000  | up to 2600             | 3000-4000              | 3500-5000   | 4500-6000                                       | up to 7000        |
| Thickness- Minimum to Maximum in a Single Pour           | 3/8" to 3" | 3/8" to 3" | Min 3/4"<br>3/8" to 2" | Min 3/4"<br>3/8" to 3" | Featheredge<br>Typical thickness:<br>3/8" to 1-1/2" | Featheredge<br>Typical thickness:<br>1/8" to 1" | 3/8" to<br>1-1/2" |
| ASTM E84 Smoke Developed Fuel Contribution Smoke Density | 0          | 0          | 0                      | 0                      | 0   | 0   | 0                 |
| ASTM E119  | Meets      | Meets      | Meets                  | Meets                  | Meets   | Meets   | Meets             |
| Greenguard Gold<br>Certified                             | •          | •          | •                      | •                      | •   | •   | •                 |

AccuCrete® and AccuLevel® underlayments are manufactured to rigorous ASTM standards, and have been tested to meet UL 1 and 2 hour fire rated designs. All AccuCrete® and AccuLevel® UL designs incorporate ultra low compressive AccuQuiet Sound Mats.

Section 1207.1 of the 2018 I. B. C. scope applies to common interior walls, partitions and floor/ceiling assemblies between adjacent dwelling units or between dwelling units and public areas.

Section 1201.2 of the 2018 I. B. C. scope applies to airborne sound for walls, partitions and floor/ceiling assemblies must have a sound transmission class (STC) of minimum 50 when tested in accordance with ASTM E90, laboratory test. Minimum 45 if field tested.

Section 1207.3 of the 2018 I. B. C. scope applies to structure borne sound refers to floor/ceiling assembles between dwelling units or dwelling units and a public area must have an impact insulation class (IIC) of minimum 50 when tested in accordance with ASTM E492, laboratory test. Minimum 45 if field tested.

AccuQuiet® D18, AccuQuiet® D25, and AccuQuiet® DX38 are Ultra Low Compression Mats with rigid vibration technology that provide outstanding sound control attenuation and durability . for use in conjunction with AccuCrete® Pourable Gypsum Underlayments.

AccuQuiet® Sound Control Systems are lab tested to meet and exceed I.B.C. standards. We employ lab testing to ensure results can be transferred from job to job. Field testing is used to verify construction, and results are not transferable from job to job.

AccuQuiet® Sound Control Systems offer a cost-effective noise reduction solution for new or renovation construction.

The lab sound tests incorporate 3/4" of AccuCrete Underlayment minimum over AccuQuiet® Sound Mats as thin as 1/4". Most entangled mesh sound mats require a minimum 1". AccuQuiet® Ultra Low Compression provides durability, as thin as 3/4" pour. UL Designs may be proprietary to truss, joist, ceiling dampers, RC-1 or drywall manufacturers. If a single manufacturer is listed in the design, only their products, and those tested in the UL design are permitted. Value engineering is accomplished by changing UL designs which allow for multiple manufacturers. AccuQuiet® and AccuCrete® have proprietary testing with non RC-1 Deluxe manufacturers. Additional tests are available specifically for RC Philips designs. Please contact your local AccuCrete® applicator for details.

## **Acoustical Mat Comparison**

The most commonly used acoustical mat is an entangled mesh design. Made of nylon or polypropylene, the curly mesh strands have a significant open space between the strands. The curliness acts as a spring when an impact hits the floor, compressing the mat. Compression is an function of the entangled mesh design, but it creates a problem for the underlayment and so threatens the integrity of the floor.

Under normal loading - live load such as a person walking or dead load such as furniture, the compression means the slab is not fully supported. Less resistance to prevent the underlayment from bending is especially prevalent under highly flexible floor coverings like carpet and vinyl. A crack creates a weak spot, and over time with subsequent loading cracks widen and propagate. This wears out the underlayment, entangled mesh and shortens the life of the floor covering. In short, the entangled mesh system is replaced much earlier than expected.

| Acoustical Mat      | Gypsum | IIC:<br>Vinyl | IIC:<br>Tile | IIC:<br>Wood<br>Lam. | IIC:<br>Vinyl Plank |
|---------------------|--------|---------------|--------------|----------------------|---------------------|
| 1/8" Entangled Mesh | 3/4"   | 50            | 53           | 50                   | 51                  |
| AccuQuiet D18       | 3/4"   | 51            | 53           | 55                   | 51                  |
| AccuQuiet D18       | 1"     | 53            | 54           | 59                   | 58                  |
| 1/4" Entangled Mesh | 1"     | N/A           | 54           | 53                   |                     |
| AccuQuiet D25       | 3/4"   | 50            | 54           | 57                   | 56                  |
| AccuQuiet D25       | 1"     | 53            | 55           | 59                   | 58                  |
| 3/8" Entangled Mesh | 1"     | 55            | 56           | 55                   |                     |
| AccuQuiet DX38      | 1"     | 55            | 58           | 59                   | 60                  |

The AccuQuiet® system with an ultra low deflection sound mat with AccuCrete® underlayment are engineered to work together to give the right balance between acoustic performance and durability. The top surface of the AccuQuiet® mat features a semi rigid structural grid supported by discreet contact pillars, approximately 1/4" in diameter. All load transfer goes through these pillars, and the mat has contact with only 5% of the surface area for ultra low contact. The compression occurs in the pillars, which makes the AccuQuiet® mat a stronger spring than entangled mesh- and increases the floor systems durability.

|                        | M        |                        | OPEN WEB/  | PARALL     | EL CHORD TRU   | JSS 1 | HOUR               | UL DESIG              | <b>SN</b>                      |                        |     | und<br>ting | Lab Tes                | t Number               |
|------------------------|----------|------------------------|--|------------|--|-------|--------------------|-----------------------|--------------------------------|------------------------|-----|-------------|------------------------|------------------------|
| AccuCrete UL<br>Design | Other UL | AccuQuiet<br>Sound Mat | AccuCrete Minimum<br>Thickness                         | Insulation | Framing Minimum<br>Depth                             | RC-1  | Drywall            | Floor<br>Covering     | Minimum AccuCrete<br>Thickness | AccuQuiet Sound<br>Mat | STC | IIC         | STC                    | IIC                    |
| <u>L528</u>            | L521     |                        |  |            | 12" w/o ceiling damper<br>18" with ceiling<br>damper |       | 1 layer of<br>5/8" | Sheet Vinyl           |                                |                        |     | 53          |                        | G9540.08-<br>113-11-R1 |
| L529                   | L579     |                        | 19.1 mm / 3/4inch                                      |            | 12"  |       |                    | Luxury Vinyl<br>Plank |                                |                        | 57  |             | G9540.09-<br>113-11-R1 |                        |
| <u>L534</u>            | M500     |                        |  |            | 18"  | 1     |                    | Luxury Vinyl<br>Plank | 25.4 mm / 1 inch               | D18                    |     | 58          |                        | G9540.10-<br>113-11-R1 |
| <u>L542</u>            | M510     |                        | 19.1 mm / 3/4 inch<br>1 inch minimum with<br>sound mat |            | 12"  |       | 2 layers<br>1/2"   | Engineered<br>Wood    |                                |                        |     | 59          |                        | G9540.11-<br>113-11-R1 |
| <u>L546</u>            | M545     |                        |  |            | 12"  | 1     |                    | Ceramic Tile          |                                |                        |     | 54          |                        | G9540.12-<br>113-11-R1 |
| <u>L550</u>            |          |                        |  |            | 12" w/o ceiling damper<br>18" with ceiling<br>damper |       | 1 layer of<br>5/8" | Sheet Vinyl           |                                |                        |     | 50          |                        | G5325.09-<br>113-11-R1 |
| L558                   |          |                        |  |            | 12"  | 1     |                    | Engineered<br>Wood    |                                |                        |     | 57          |                        | G5325.10-<br>113-11-R1 |
|                        |          |                        |  |            | 12" w/o ceiling damper                               |       |                    | wood                  |                                |                        |     |             |                        |                        |
| <u>L562</u>            |          |                        |  |            | 18" with ceiling<br>damper                           |       | 1 layer of<br>5/8" | Ceramic Tile          | 19.1 mm / 3/4 inch             |                        |     | 54          |                        | G5325.11-<br>113-11-R1 |
| <u>L563</u>            |          | D18, D25,<br>DX38      |  | Yes        | 18"  | Yes   |                    | Luxury Vinyl<br>Plank |                                |                        |     | 56          |                        | G5325.13-<br>113-11-R1 |
| L574                   |          |                        |  |            |  |       |                    | Luxury Vinyl<br>Plank |                                |                        | 58  |             | G5325.12-<br>113-11-R1 |                        |
| L576                   |          |                        | 19.1 mm/ 3/4inch                                       |            |  |       |                    | LVT                   |                                | D25                    |     | 52          |                        | G5325.05-<br>113-11-R1 |
| L581                   |          |                        |  |            |  |       |                    | LVT                   |                                |                        | 58  |             | G5325.04-<br>113-11-R2 |                        |
| L583                   |          |                        |  |            |  |       | 2 layers           | Sheet Vinyl           |                                |                        |     | 53          |                        | H2989.08-<br>113-11-R0 |
| L585                   |          |                        |  |            | 12" w/o ceiling damper                               |       | 5/8"               | Luxury Vinyl<br>Plank |                                |                        | 57  |             | H2989.09-<br>113-11-R0 |                        |
| L587                   |          |                        |  |            | 18" with ceiling<br>damper                           |       | 1 layers<br>5/8"   | Luxury Vinyl<br>Plank | 25.4 mm / 1 inch               |                        |     | 58          |                        | H2989.10-              |
| L592                   |          |                        |  |            |  |       | 3,0                | Engineered<br>Wood    |                                |                        |     | 59          |                        | H2989.11-              |
| M503                   |          |                        |  |            |  |       |                    | Ceramic Tile          |                                |                        |     | 55          |                        | H2989.12-              |
| M508                   |          |                        |  |            |  |       |                    | BARE FLOOR            |                                |                        |     | 50          |                        | G9530.09-              |
| M550                   |          |                        |  |            |  |       |                    | Luxury Vinyl<br>Plank |                                |                        | 59  |             | G9530.10-<br>113-11-R1 | 113 11 11              |
|                        |          | ς                      | \  |            | 1  |       | 77-                | Luxury Vinyl<br>Plank |                                |                        |     | 53          |                        | G9530.11-<br>113-11-R1 |
| // (M                  | 0.       |                        |  |            |  |       |                    | Sheet Vinyl           | - /2                           |                        |     | 52          |                        | G9530.12-              |
|                        |          | T                      | 01   | -          |  |       |                    | Sheet Vinyl           |                                |                        |     | 55          |                        | 113-11-R1<br>H3270.09- |
| 281                    |          | 7                      | CHERTHAN   | 18300      | 0  |       |                    | Engineered            | 25.4 mm / 1 inch               | DX38                   |     |             |                        | 113-11-R0<br>G9530.13- |
| )                      | Sel.     | africa                 | Hilling  |            |  |       |                    | Wood                  | 4.                             |                        |     | 57          |                        | 113-11-R1<br>H3270.12- |
| hun!                   | 19455    |                        | 2  |            |  |       |                    | Engineered<br>Wood    | \$\X\(\)                       |                        |     | 59          |                        | 113-11-R0              |
|                        | 2007     |                        | pl/  |            |  |       | ,                  | Ceramic Tile          |                                | 1.                     |     | 54          |                        | G9530.14-<br>113-11-R1 |
|                        |          |                        |  |            | 350  | 7.31  | OX                 | Luxury Vinyl<br>Plank |                                | X.                     | 58  |             | G9530.15-<br>113-11-R1 |                        |
| \ /                    |          |                        | 11/5   | 1 8        |  |       |                    | Luxury Vinyl<br>Plank |                                |                        |     | 60          | _                      | H3270.11-<br>113-11-R0 |
| 11                     |          |                        |  |            |  |       | 407 77             | Quarry Tile           |                                |                        |     | 53          |                        | 7012009                |
| 7/                     |          |                        | 7  | 77_71      | 7  |       |                    | Sheet Vinyl           |                                |                        | 59  |             | 5012006                |                        |
| -                      | 1        | 77 77 7                | 1  |            |  |       |                    | Sheet Vinyl           | 19.1 mm / 3/4 inch             | D18                    |     | 51          |                        | 7012010                |
| 27                     | 1        |                        |  |            | 0  |       |                    | laminate<br>Flooring  |                                |                        |     | 55          | V                      | 7012011                |
| 1                      | /        |                        | 1/1  |            | 54/  |       |                    | Vinyl Plank           | ,                              | CAT                    |     | 51          |                        | 7012028                |

|              |          |                   | OPEN WEB/         |            |                 |      |                    | SIGN     |                   |                 | Sou<br>Rat | -   |     | Test<br>mber |
|--------------|----------|-------------------|-------------------|------------|-----------------|------|--------------------|----------|-------------------|-----------------|------------|-----|-----|--------------|
| AccuCrete UL | Other UL | AccuQuiet         | AccuCrete Minimum | Insulation | Framing Minimum | RC-1 | Drvwall            | Floor    | Minimum AccuCrete | AccuQuiet Sound | STC        | IIC | STC | IIC          |
| Design       | Other OL | Sound Mat         | Thickness         | modiacion  | Depth           |      | Diywan             | Covering | Thickness         | Mat             | 3.0        |     | SIC |              |
| <u>L577</u>  | M521     | D18, D25,<br>Dx38 | 19.1 mm/ 3/4inch  | yes        | 12"             | yes  | 3 layers of<br>5/8 |          |                   |                 |            |     |     |              |

|                        |          |                        |                                |            | JR UL DESIG   | _    |                             |                       |                                |                        |     | und<br>ing |                            | Test<br>mber           |
|------------------------|----------|------------------------|--------------------------------|------------|---|------|-----------------------------|-----------------------|--------------------------------|------------------------|-----|------------|----------------------------|------------------------|
| AccuCrete UL<br>Design | Other UL | AccuQuiet<br>Sound Mat | AccuCrete Minimum<br>Thickness | Insulation | Framing Minimum<br>Depth  | RC-1 | Drywall                     | Floor<br>Covering     | Minimum AccuCrete<br>Thickness | AccuQuiet Sound<br>Mat | STC | IIC        | STC                        | IIC                    |
| <u>L518</u>            |          |                        |                                |            |   |      | 2 layers 1/2"               | Sheet Vinyl           |                                |                        |     | 51         |                            | H4639.08-<br>113-11-R0 |
| <u>L530</u>            |          |                        |                                |            | 9-1/2"  |      | 2 layers of<br>1/2" or 5/8" | LVT                   |                                |                        | 60  |            | H4639.09<br>-113-11-<br>R0 |                        |
| <u>L570</u>            |          |                        |                                |            | 9-1/2" deep/ 19.2"<br>oc. Increased to<br>24" o.c. with<br>insulation |      | 2 layers of<br>1/2" or 5/8" | LVT                   | 19.1 mm/ 3/4 inch              | D25                    |     | 54         |                            | H4639.10-<br>113-11-R0 |
| <u>L581</u>            |          | D18, D25,              | 19.1 mm/ 3/4inch               | yes        | 10" wood joist, 12"<br>parallel chord, 9-<br>1/2" I joist             | ves  |                             | Luxury Vinyl<br>Plank |                                |                        |     | 50         |                            | H4639.11-<br>113-11-R0 |
| <u>L583</u>            |          | Dx38                   | , ,                            | ,          | 10" wood joist, 12"<br>parallel chord, 9-<br>1/2" I joist             | ,    | 2 layers of<br>5/8"         | Engineered<br>Wood    |                                |                        |     | 55         |                            | H4639.12-<br>113-11-R0 |
| <u>L589</u>            |          |                        |                                |            |   |      | 2 layers of<br>1/2" or 5/8" | Ceramic Tile          |                                |                        |     | 52         |                            | H4639.13-<br>113-11-R0 |
| <u>M502</u>            |          |                        |                                |            | 0.4/01  |      | 2 layers of<br>1/2" or 5/8" |                       |                                |                        |     |            |                            |                        |
| <u>M506</u>            |          |                        |                                |            | 9-1/2"  |      | 2 layers of<br>1/2" or 5/8" |                       |                                |                        |     |            |                            |                        |
| M535<br>M553           |          |                        |                                |            |   |      | 2 layers of<br>5/8"         |                       | _                              | _                      |     |            |                            | _                      |

|              |          |           | I JOIST 1-1/2     |            |                 |      |               |          |                   |                 | Sou<br>Rat | -   |     | Test<br>nber |
|--------------|----------|-----------|-------------------|------------|-----------------|------|---------------|----------|-------------------|-----------------|------------|-----|-----|--------------|
| AccuCrete UL | Other UL | AccuQuiet | AccuCrete Minimum | Insulation | Framing Minimum | RC-1 | Drywall       | Floor    | Minimum AccuCrete | AccuQuiet Sound | STC        | IIC | STC | IIC          |
| Design       | Other OL | Sound Mat | Thickness         | modiacion  | Depth           | KC-1 | Diywan        | Covering | Thickness         | Mat             | 3.0        |     | 310 | "C           |
| <u>L547</u>  |          | D18, D25, | 40.4 / 2/4/       | no         | 0.4/211         |      | 2 layers 1/2" |          |                   |                 |            |     |     |              |
| M544         |          | Dx38      | 19.1 mm/ 3/4inch  | yes        | 9-1/2"          | yes  | 2 layers 5/8" |          |                   |                 |            |     |     |              |

|                        |          |                        | I JOIST 2 HO                   |            |                          |      |               |                   |                                |                        | Sou<br>Rat | -   |     | Test<br>nber |
|------------------------|----------|------------------------|--------------------------------|------------|--------------------------|------|---------------|-------------------|--------------------------------|------------------------|------------|-----|-----|--------------|
| AccuCrete UL<br>Design | Other UL | AccuQuiet<br>Sound Mat | AccuCrete Minimum<br>Thickness | Insulation | Framing Minimum<br>Depth | RC-1 | Drywall       | Floor<br>Covering | Minimum AccuCrete<br>Thickness | AccuQuiet Sound<br>Mat | STC        | IIC | STC | IIC          |
| <u>L538</u>            |          | D18,D25, DX<br>38      | 19.1 mm/ 3/4 inch              | no         | 9- 1/2"                  | yes  | 3 layers 5/8" |                   |                                |                        |            |     |     |              |

|                        |          |                        | 2 X 10 WOO                  | D JOIST/ I | DIMMENSIO              | NAL  | . LUMBE                      | R 1/2 -3          | 3/4 HOUR UL I                  | DESIGNS                | //- | und<br>ing |     | Test<br>mber |
|------------------------|----------|------------------------|-----------------------------|------------|------------------------|------|------------------------------|-------------------|--------------------------------|------------------------|-----|------------|-----|--------------|
| AccuCrete UL<br>Design | Other UL | AccuQuiet<br>Sound Mat | AccuCrete Minimum Thickness | Insulation | Framing Minimum  Depth | RC-1 | Drywall                      | Floor<br>Covering | Minimum AccuCrete<br>Thickness | AccuQuiet Sound<br>Mat | STC | IIC        | STC | IIC          |
| L506<br>L509           | 7        | D18,D25, DX            | S 101 1011 1                | no         | 4011                   | no   | 1 layer 1/2"<br>1 layer 1/2" | \                 |                                |                        |     |            |     |              |
| L520<br>M504           | 9/       | 38                     | 19.1 mm/ 3/4 inch           | yes<br>no  | 10"                    |      | 1 layer 5/8"<br>1 layer 1/2" |                   |                                |                        |     |            |     | 001>         |

| ccuCrete UL |          | AccuQuiet | 2X10 WOOD AccuCrete Minimum              | -          | DIMMENSIOI<br>Framing Minimum  |      |                                  | R 1 HOU    | R UL DESIGN |             | Rat | ing | Nur  | Test<br>nber |
|-------------|----------|-----------|--|------------|--|------|----------------------------------|------------|-------------|-------------|-----|-----|------|--------------|
| Design      | Other UL | Sound Mat | Thickness                                | Insulation | Depth  | RC-1 | Drywall                          | Covering   | Thickness   | Mat         | STC | IIC | STC  | IIC          |
| L006        | L545     |           | 25.4 mm/ 1 "<br>3/4" w/o sound mat, 1"   | yes        | †  | no   | dwss                             | or 1 layer | 5/8"        |             |     |     |      |              |
| <u>L201</u> | L569     |           | with sound mat<br>3/4" w/o sound mat, 1" | no         | -  | no   | dwss                             |            |             |             | _   |     |      |              |
| <u>L202</u> | L588     |           | with sound mat                           | no         | 1  | no   | dwss                             | or 1 layer | 5/8"        |             |     |     |      |              |
| <u>L206</u> | M514     |           | 19.1 mm/ 3/4"<br>3/4" w/o sound mat, 1"  | yes        | -  | no   | lay in panels                    | or 2 layer | 5/8"        |             |     |     |      |              |
| <u>L209</u> | M517     |           | with sound mat                           | no         |  | no   | dwss                             | or 1 layer | 5/8"        |             |     |     |      |              |
| <u>L210</u> | M518     |           | 3/4" w/o sound mat, 1"<br>with sound mat | no         |  | no   | dwss                             | or 2 layer | 5/8"        |             |     |     |      |              |
| <u>L212</u> | M531     |           | 3/4" w/o sound mat, 1"<br>with sound mat | no         |  | no   | insulated<br>ceiling<br>membrane | or 1 layer | 5/8"        |             |     |     |      |              |
| <u>L501</u> |          |           | 19.1 mm/ 3/4"                            | no         | 10"  | no   | 1 layer of 5/8"                  |            |             |             |     |     |      |              |
| <u>L502</u> |          |           | 19.1 mm/ 3/4"                            | yes        |  | yes  | 1 layer of<br>5/8"               |            |             |             |     |     |      |              |
| L503        |          |           | 3/4" w/o sound mat, 1"                   | no         | 1  | no   | 1 layer of                       |            |             |             |     |     |      |              |
| L504        |          |           | with sound mat<br>19.1 mm/ 3/4"          | no         | 1  | no   | 5/8"<br>1 layer of               |            |             |             |     |     |      |              |
| L507        |          |           | 19.1 mm/ 3/4"                            | yes        | 1  | no   | 1/2"<br>1 layer of               |            |             |             |     |     |      |              |
| L508        |          | ·         | 3/4" w/o sound mat, 1"                   | yes        | 1  | yes  | 1/2"<br>1 layer of               |            |             |             |     |     |      |              |
|             |          |           | with sound mat                           |            | 4  |      | 5/8"<br>1 layer of               |            |             |             |     |     |      |              |
| <u>L512</u> |          |           | 19.1 mm/ 3/4"                            | no         |  | no   | 1/2"or 5/8"                      |            |             |             |     |     |      |              |
| <u>L513</u> |          |           | 19.1 mm/ 3/4"                            | yes        | 2" x 10" 24" o.c.  | yes  | 1 layer of<br>5/8"               |            |             |             |     |     |      |              |
| <u>L514</u> |          |           | 19.1 mm/ 3/4"                            | yes        |  | yes  | 1 layer of<br>1/2"               |            |             |             |     |     |      |              |
| <u>L515</u> |          |           | 19.1 mm/ 3/4"                            | yes        |  | yes  | 1 layer of<br>1/2"               |            |             |             |     |     |      |              |
| <u>L516</u> |          |           | 19.1 mm/ 3/4"                            | yes        |  | yes  | 1 layer of<br>5/8"               |            |             |             |     |     |      |              |
| <u>L517</u> |          |           | 19.1 mm/ 3/4"                            | no         |  | yes  | 1 layer of 1/2"                  |            |             |             |     |     |      |              |
| <u>L519</u> |          |           | 3/4" w/o sound mat, 1"<br>with sound mat | no         |  | no   | 1 layer of<br>1/2"               |            |             |             |     |     |      |              |
| L522        |          |           | 3/4" w/o sound mat, 1"<br>with sound mat | no         | 1  | no   | 1 layer of 1/2"                  |            |             |             |     |     |      |              |
| L523        |          |           | 3/4" w/o sound mat, 1"                   | no         | 10"  | yes  | 1 layer of                       |            |             |             |     |     |      |              |
| L525        |          |           | with sound mat<br>19.1 mm/ 3/4"          | no         | 1  | yes  | 5/8"<br>1 layer of               |            |             |             |     |     |      |              |
| L526        |          |           | 3/4" w/o sound mat, 1"                   | no         | 1  | no   | 5/8"<br>dwss                     |            |             |             |     |     |      |              |
| L533        |          |           | with sound mat<br>19.1 mm/ 3/4"          | yes        | 1  | yes  | 1 layer of                       |            |             |             |     |     |      |              |
|             |          |           |  |            | -  | _    | 5/8"<br>1 layer of               |            |             |             |     |     |      |              |
| L535        |          |           | 19.1 mm/ 3/4"                            | yes        | -  | yes  | 1/2"or 5/8"                      |            |             |             | _   |     |      |              |
| <u>L537</u> |          |           | 19.1 mm/ 3/4"                            | no         |  | no   | 1 layer of<br>1/2"or 5/8"        |            |             |             |     |     |      |              |
| <u>L539</u> |          |           | 19.1 mm/ 3/4"                            | yes        | 2" x 10" 24" o.c.  | no   | 1 layer of<br>1/2"or 5/8'        |            |             |             |     |     |      |              |
| L540        |          |           | 19.1 mm/ 3/4"                            | yes        | 2" x 8" 16" o.c. 2' x<br>10" 24" o.c.  | no   | 1 layer of 5/8"                  |            |             |             |     |     |      |              |
| <u>L581</u> |          |           | 19.1 mm/ 3/4"                            | yes        | 2"x10"/16" o.c. , 12"<br>open web/ 24" o.c.,                                       | yes  | 2 layers 5/8"                    |            |             |             |     |     |      |              |
| <u>L583</u> |          |           | 19.1 mm/ 3/4"                            | yes        | 9-1/2"   Joist/24"o.c.<br>10" wood joist, 12"<br>parallel chord, 9-1/2"<br>  joist | yes  | 2 layers 5/8"                    |            |             |             |     |     |      |              |
| L590        |          |           | 25.4 mm/ 1 "                             | yes        | 2"x10"/16"o.c.<br>increased to 24" o.c.<br>when battens are<br>used                | yes  | 1 layer of<br>5/8"               |            |             |             |     |     |      |              |
| <u>L593</u> |          | 11/       | 19.1 mm/ 3/4"                            | yes        | 2"x10"/16"o.c.<br>increased to 24" o.c.<br>when battens are<br>used                | yes  | 1 layer of<br>5/8"               |            |             |             |     |     |      |              |
| M519        | 1//      |           | 19.1 mm/ 3/4"                            | yes        | \ \  | yes  | 1 layer of 5/8"                  |            |             |             |     |     |      |              |
| M530        | /1/      |           | 19.1 mm/ 3/4"                            | no         | 10"  | no   | 1 layer of 5/8"                  |            |             |             |     |     | /-/2 |              |
| M538        |          |           | 19.1 mm/ 3/4"                            | no         | Trong A  | no   | 1 layer of 5/8"                  |            | 00 010 00   | 00       00 |     | 444 |      |              |

|                        |          |                        | 2 X 10 WC                      | OD JOI     | STS/DIMMENS              | ION  | AL LUMB                          |                   |                                |                        | Sou<br>Rat | ind<br>ing |     | Test<br>nber |
|------------------------|----------|------------------------|--------------------------------|------------|--------------------------|------|----------------------------------|-------------------|--------------------------------|------------------------|------------|------------|-----|--------------|
| AccuCrete UL<br>Design | Other UL | AccuQuiet<br>Sound Mat | AccuCrete<br>Minimum Thickness | Insulation | Framing Minimum<br>Depth | RC-1 | Drywall                          | Floor<br>Covering | Minimum AccuCrete<br>Thickness | AccuQuiet Sound<br>Mat | STC        | IIC        | STC | IIC          |
| <u>L211</u>            |          |                        |                                |            |                          | no   | insulated<br>ceiling<br>membrane |                   |                                |                        |            |            |     |              |
| <u>L505</u>            |          | D18, D25,              | 19.1mm/3/4"                    | no         | 10"                      |      | 2 layers 5/8"                    |                   |                                |                        |            |            |     |              |
| <u>L511</u>            |          | DX38                   | 19.111111/3/4                  |            |                          | l    | 2 layers 5/8"                    |                   |                                |                        |            |            |     |              |
| L536                   |          |                        |                                |            |                          | yes  | 2 layers 5/8"                    |                   |                                |                        |            |            |     |              |
| L541                   |          |                        |                                | yes        |                          |      |                                  |                   |                                |                        |            |            |     |              |
| L556                   |          |                        |                                |            |                          | 1    | 1 layer 5/8"                     |                   |                                |                        |            |            |     |              |
| L510                   |          |                        | 1"                             | no         | 8"                       | I    | 2 layers 5/8"or dwss             |                   |                                |                        |            |            |     |              |
| 1208                   |          | 1                      | 1                              |            |                          |      | dwcc                             |                   |                                |                        |            |            |     |              |

|       |          |                  |           | STRUCTUE          | RAL STE     | EL I HOUR UL D  | ESIG | iN            |          |                   |                 | Sou | -   |     | Test<br>mber |
|-------|----------|------------------|-----------|-------------------|-------------|-----------------|------|---------------|----------|-------------------|-----------------|-----|-----|-----|--------------|
| AccuC | Crete UL | Other UL         | AccuQuiet | AccuCrete         | Insulation  | Framing Minimum | RC-1 | Drywall       | Floor    | Minimum AccuCrete | AccuQuiet Sound | STC | IIC | STC | IIC          |
| De    | esign    | Other OL         | Sound Mat | Minimum Thickness | ilisulation | Depth           | KC-1 | Diywan        | Covering | Thickness         | Mat             | 5   | iic | 310 | 110          |
| LS    | .524     |                  | D18, D25, | 40.4 / 2 / 4      | no          | 7"              | no   | 2 layers 1/2" |          |                   |                 |     |     |     |              |
| LS    | 560      | , and the second | DX38      | 19.1 mm/ 3/4"     | yes         | 10'             | yes  | 1 layer 5/8"  |          |                   |                 |     |     | Ť   |              |

| AccuCrete UL     |          | AccuQuiet | AccuCrata         |                   | USS/ STEEL DE                   |      |                    | UR UL    | DESIGNS Minimum AccuCrete | AccuQuiet Sound |     | ing | Nu  | Test<br>mber |
|------------------|----------|-----------|-------------------|-------------------|---------------------------------|------|--------------------|----------|---------------------------|-----------------|-----|-----|-----|--------------|
| Design           | Other UL | -         | Minimum Thickness | Insulation        | Depth                           | RC-1 | Drywall            | Covering | Thickness                 | Mat             | STC | IIC | STC | IIC          |
| <u>G578</u>      | G551     |           |                   |                   | 9-1/4"                          |      | 1 layer 5/8"       |          |                           |                 |     |     |     |              |
| <u>G579</u>      | G553     |           | 1 inch            |                   | 9-1/4"                          |      | 1-2 layers<br>5/8" |          |                           |                 |     |     |     |              |
| <u>G581</u>      | G560     |           |                   | Yes               | 8"                              | Yes  |                    |          |                           |                 |     |     |     |              |
| <u>G592</u>      | G563     | D18,D25,  |                   |                   | 10"                             | 1    | 1 layer 5/8"       |          |                           |                 |     |     |     |              |
| <u>M513</u>      | G566     | DX38      | 19.1 mm/ 3/4 inch |                   | prefabricated various<br>depths |      | 1 layer 5/6        |          |                           |                 |     |     |     |              |
|                  | G574     |           |                   |                   |                                 |      |                    |          |                           |                 |     |     |     |              |
| , and the second | G587     |           |                   | The second second |                                 |      | , and the second   |          |                           |                 |     |     |     |              |
|                  | G597     |           |                   |                   |                                 |      |                    |          |                           |                 |     |     |     |              |
| H502             |          |           | 19.1 mm/ 3/4 inch |                   |                                 |      |                    |          |                           |                 |     |     |     |              |

| STEEL TRUSS/STEEL DECK 2 HOUR DESIGNS |          |                        |                                |            |                          |      |              |                   |                                |                        |     | und<br>ing |     | Test<br>nber |
|---------------------------------------|----------|------------------------|--------------------------------|------------|--------------------------|------|--------------|-------------------|--------------------------------|------------------------|-----|------------|-----|--------------|
| AccuCrete UL<br>Design                | Other UL | AccuQuiet<br>Sound Mat | AccuCrete<br>Minimum Thickness | Insulation | Framing Minimum<br>Depth | RC-1 | Drywall      | Floor<br>Covering | Minimum AccuCrete<br>Thickness | AccuQuiet Sound<br>Mat | STC | IIC        | STC | IIC          |
| <u>G577</u>                           |          | D40 D25                |                                |            |                          |      |              |                   |                                |                        |     |            |     |              |
| <u>G580</u>                           |          | D18, D25,<br>DX38      | 25.4 mm/ 1"                    | yes        | 9-1/4"                   | yes  | 1 layer 5/8" |                   |                                |                        |     |            |     |              |
| G582                                  |          | DX38                   |                                |            |                          |      |              |                   |                                |                        |     |            |     |              |

| STEEL JOIST/TRUSS AND PLYWOOD SUBFLOOR I HOUR UL DESIGNS |          |           |                        |            |                        |      |               |          |                   |                 | Sou<br>Rat | und<br>ting |     | Test<br>mber |
|--|----------|-----------|------------------------|------------|------------------------|------|---------------|----------|-------------------|-----------------|------------|-------------|-----|--------------|
| AccuCrete UL   | Other UL | AccuQuiet | AccuCrete              | Insulation | Framing Minimum RC-1   | RC-1 | Drywall       |          | Minimum AccuCrete | AccuQuiet Sound | STC        | IIC         | STC | IIC          |
| Design   | - tc     | Sound Mat | Minimum Thickness      | ;          | Depth                  |      | ,             | Covering | Thickness         | Mat             |            |             |     |              |
| <u>L543</u>  | L564     | ///       |                        |            | 8"                     |      | 2 layers 1/2" |          |                   |                 |            |             |     |              |
| <u>L549</u>  | L567     | D18, D25, | 10.1 mans / 3 /4 in ab |            |                        |      | 1 layer 5/8"  |          |                   |                 |            |             |     |              |
| <u>L551</u>  | /        | DX38      | 19.1 mm/ 3/4 inch      | yes        | various depending upon |      | 1 layer 5/8"  |          |                   |                 |            |             |     |              |
| <u>L573</u>  |          |           |                        |            | manufacturer           |      | 2 layers 5/8" |          |                   |                 |            |             |     |              |

| STEEL JOIST/PLYWOOD SUBFLOOR 1-1/2 HOUR UL DESIGNS |          |                   |                                |            |                       |      |               |                   |                                |                        | ( ) ) ) |     |     | Test |
|--|----------|-------------------|--------------------------------|------------|-----------------------|------|---------------|-------------------|--------------------------------|------------------------|---------|-----|-----|------|
| AccuCrete UL<br>Design                             | Other UL | AccuQuiet         | AccuCrete<br>Minimum Thickness | Insulation | Framing Minimum Depth | RC-1 | Drywall       | Floor<br>Covering | Minimum AccuCrete<br>Thickness | AccuQuiet Sound<br>Mat | STC     | IIC | STC | IIC  |
| <u>L527</u>  |          | D18, D25,<br>DX38 | 19.1 mm/ 3/4"                  | no         | 9-3/8"                | yes  | 2 layers 5/8" |                   |                                |                        |         |     |     |      |

|                        | PRECAST CONCRETE 1, 2, AND 3 HOUR UL DESIGNS  AccuCrete UL Colonia   AccuQuiet   AccuCrete Minimum   Colonia Minimum   AccuCrete   AccuQuiet Sounce   AccuCrete Minimum   AccuCrete Minimu |                     |  |            |                                   |      |         |                               |                             |                        |     |     |                        | ab Test<br>umber       |  |
|------------------------|--|---------------------|--|------------|-----------------------------------|------|---------|-------------------------------|-----------------------------|------------------------|-----|-----|------------------------|------------------------|--|
| AccuCrete UL<br>Design | Other UL   | AccuQuiet Sound Mat | AccuCrete Minimum Thickness                | Insulation | Framing Minimum<br>Depth          | RC-1 | Drywall | Floor<br>Covering             | Minimum AccuCrete Thickness | AccuQuiet Sound<br>Mat | STC | IIC | STC                    | IIC                    |  |
| <u>J917</u>            | J991   |                     | 1/2" w/o sound mat,<br>3/4" with sound mat |            | normal weight precast<br>concrete | 1    | no      | BARE FLOOR                    | none                        | none                   | 56  | 30  | I1394.12-<br>113-11-R0 | I1394.13-<br>I13-11-R0 |  |
| <u>J920</u>            |  |                     | 19.1 mm/ 3/4"                              | no         | normal weight precast concrete    |      |         | 7.8 mm LVT                    | DX38                        | 25.4 mm/ 1 inch        | 55  | 50  |                        | I1394.15-<br>113-11-R0 |  |
| <u>J927</u>            |  | D18, D25,<br>DX38   |  |            | 6"                                |      |         | 12.7 mm<br>Engineered<br>Wood | DX38                        | 25.4 mm/ 1 inch        |     | 51  |                        | I1394.16-<br>113-11-R0 |  |
| <u>J931</u>            |  | DX38                |  |            | 8"                                |      |         | 7.8 mm<br>Ceramic Tile        | DX38                        | 25.4 mm/ 1 inch        |     | 51  |                        | I1394.17-<br>113-11-R0 |  |
| <u> J957</u>           |  |                     |  | spray      |                                   |      |         | Carpet/pad                    | DX38                        | 25.4 mm/ 1 inch        |     | 83  |                        | I1394.18-<br>113-11-R0 |  |
| <u> 1958</u>           |  |                     |  |            |                                   |      |         |                               |                             |                        |     |     |                        |                        |  |

|                        | PRECAST CONCRETE 1-1/2, 2, 3 AND 4 HOUR UL DESIGNS |                     |   |            |                          |      |         |                   |   |                        |     |     |     | Test<br>mber |
|------------------------|--|---------------------|---|------------|--------------------------|------|---------|-------------------|---|------------------------|-----|-----|-----|--------------|
| AccuCrete UL<br>Design | Other UL   | AccuQuiet Sound Mat | AccuCrete Minimum Thickness   | Insulation | Framing Minimum<br>Depth | RC-1 | Drywall | Floor<br>Covering | Minimum AccuCrete Thickness             | AccuQuiet Sound<br>Mat | STC | IIC | STC | IIC          |
| <u>1994</u>            |  | - Country Water     | 2 hour- 1/2" thick<br>underlayment<br>3 hour-1" thick<br>underlayment   |            |                          |      |         | coreg             | ······································· |                        |     |     |     |              |
| <u>1991</u>            |  | D18,D25,<br>DX38    | 3 hour- 1/2" thick<br>underlayment<br>4 hour-5/8" thick<br>uderlayment<br>2,3 hour- no topping<br>4 hour- 1/2"thick<br>underlayment | no         | 10"                      | no   | no      |                   |   |                        |     |     |     |              |

|                        | PRECAST CONCRETE 2, 3, AND 4 HOUR UL DESIGNS |                        |  |            |  |      |         |                   |                                |                        |     |     |     | Test |
|------------------------|--|------------------------|--|------------|--|------|---------|-------------------|--------------------------------|------------------------|-----|-----|-----|------|
| AccuCrete UL<br>Design | Other UL                                     | AccuQuiet<br>Sound Mat | AccuCrete Minimum Thickness              | Insulation | Framing Minimum<br>Depth                 | RC-1 | Drywall | Floor<br>Covering | Minimum AccuCrete<br>Thickness | AccuQuiet Sound<br>Mat | STC | IIC | STC | IIC  |
| <u>J919</u>            |  | D18, D25,<br>DX38      | 19.1 mm/ 3/4"                            | spray      | normal weiight precast<br>concrete units | no   | no      |                   |                                |                        |     |     |     |      |
|                        |  | no                     | 2 hour- no minimum<br>3 hour- 1/2" thick |            | 8"                                       |      |         |                   |                                |                        |     |     |     |      |
| J924                   |  | D18, D25,<br>DX38      | 4 hour- 3/4" thick                       | no         |  |      |         |                   |                                |                        |     |     |     |      |
| _                      |  | no                     | 2 hour- no minimum<br>3 hour- no minimum | Ī          | 10"                                      |      |         |                   |                                |                        |     |     |     |      |
|                        |  |                        | 4 hour- 1/2" thick                       |            |  |      |         |                   |                                |                        |     |     |     |      |

For more information on any of the UL designs, sound test results, or for any other question, please contact us.

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