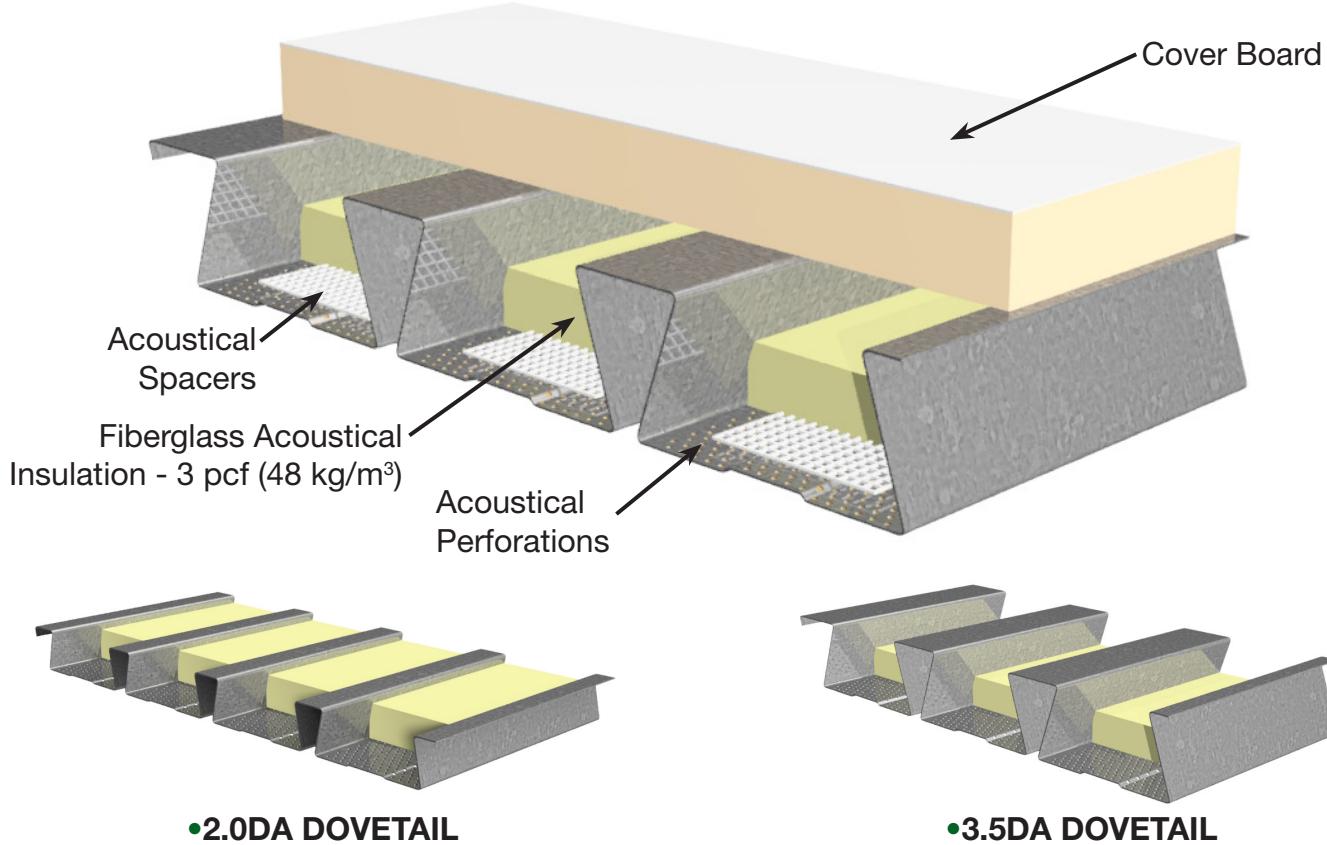


# VULCRAFT NRC ACOUSTICAL SOLUTIONS

## DOVETAIL ACOUSTICAL DECKS

**REDUCE INTERIOR NOISE WITH THE SOUND ABSORPTION CAPABILITIES  
OF VULCRAFT ACOUSTICAL ROOF DECK**



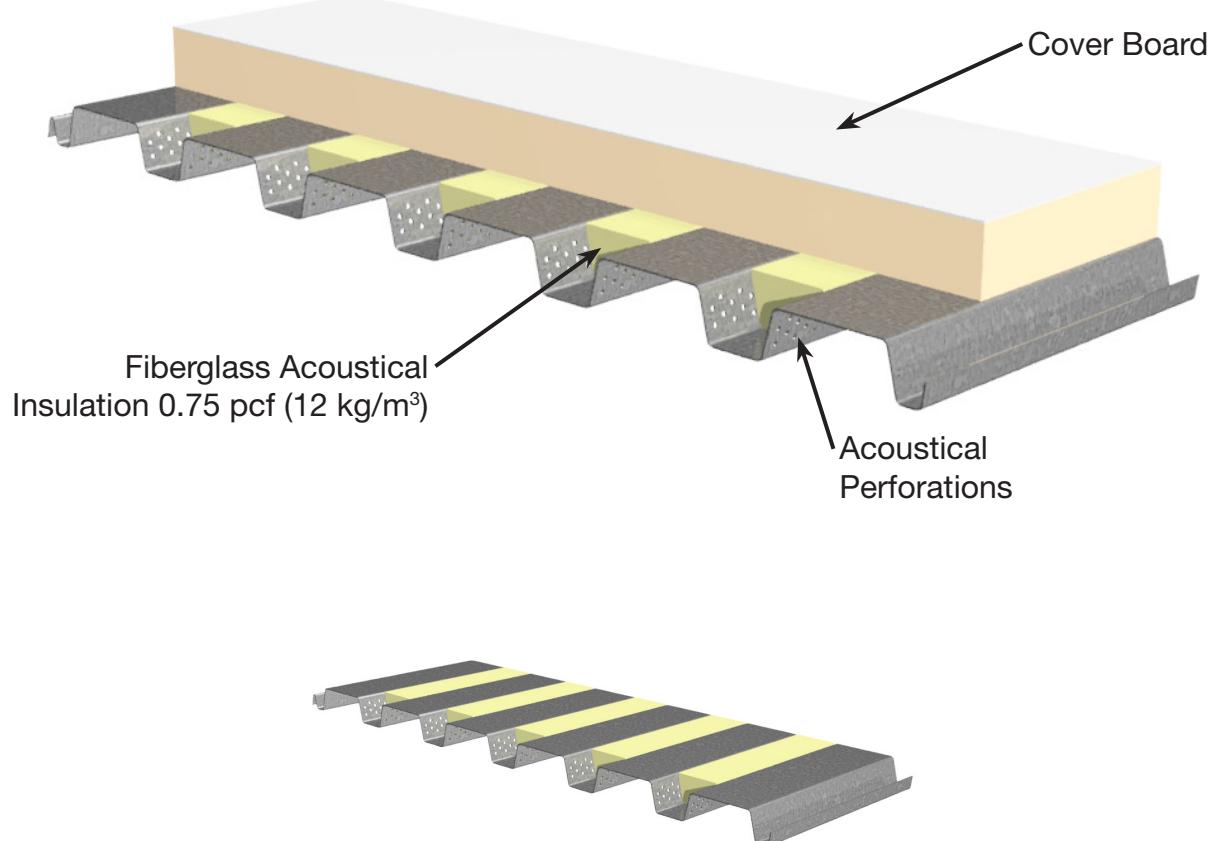
| Roof<br>Insulation       | AC<br>Insulation | Absorption Coefficients |        |        |         |         |         |      | RAL<br>Test. No. |         |
|--------------------------|------------------|-------------------------|--------|--------|---------|---------|---------|------|------------------|---------|
|                          |                  | 125 Hz                  | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | SSA  | NRC              |         |
| <b>2.0DA DOVETAIL</b>    |                  |                         |        |        |         |         |         |      |                  |         |
| Poly-Iso                 | Plain            | 0.19                    | 0.54   | 1.15   | 1.07    | 1.01    | 0.79    | 0.95 | 0.95             | A14-170 |
|                          | Encapsulated     | 0.35                    | 0.82   | 1.15   | 0.99    | 0.97    | 0.72    | 0.96 | 1.00             | A14-167 |
| Fiberglass               | Plain            | 0.74                    | 1.40   | 1.25   | 1.03    | 0.98    | 0.80    | 1.14 | 1.15             | A14-169 |
|                          | Encapsulated     | 0.62                    | 1.18   | 1.08   | 0.93    | 0.97    | 0.77    | 1.02 | 1.05             | A14-168 |
| ½" (13 mm)<br>Roof Board | Plain            | 0.17                    | 0.51   | 1.05   | 1.05    | 0.85    | 0.77    | 0.85 | 0.85             | A19-101 |
|                          | Encapsulated     | 0.30                    | 0.56   | 1.02   | 0.99    | 0.92    | 0.78    | 0.86 | 0.85             | A19-102 |
| <b>3.5DA DOVETAIL</b>    |                  |                         |        |        |         |         |         |      |                  |         |
| Poly-Iso                 | Plain            | 0.25                    | 0.74   | 1.13   | 1.06    | 0.97    | 0.75    | 0.96 | 1.00             | A14-186 |
|                          | Encapsulated     | 0.38                    | 0.86   | 1.18   | 1.03    | 0.93    | 0.65    | 0.98 | 1.00             | A14-189 |
| Fiberglass               | Plain            | 0.92                    | 1.51   | 1.13   | 1.06    | 0.98    | 0.78    | 1.14 | 1.15             | A14-187 |
|                          | Encapsulated     | 0.97                    | 1.50   | 1.09   | 1.00    | 0.91    | 0.67    | 1.10 | 1.15             | A14-188 |
| ½" (13 mm)<br>Roof Board | Plain            | 0.33                    | 0.95   | 1.20   | 1.00    | 0.96    | 0.74    | 1.01 | 1.05             | A19-220 |
|                          | Encapsulated     | 0.56                    | 1.10   | 1.13   | 0.91    | 0.94    | 0.64    | 1.02 | 1.00             | A19-223 |

**Note:**

- Plain 3.0 pcf (48 kg/m³) fiberglass acoustical insulation standard. Inquire regarding lead time for encapsulated insulation.

# VULCRAFT NRC ACOUSTICAL SOLUTIONS

## FLUTED ACOUSTICAL DECKS



•1.5BA-36 / 1.5BIA-36 / 1.5PLBA-36

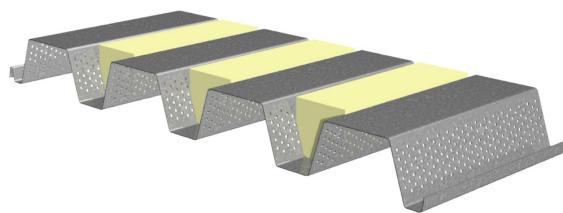
| Roof<br>Insulation                       | AC<br>Insulation | Absorption Coefficients |        |        |         |         |         | SSA  | NRC  | RAL<br>Test. No. |
|--|------------------|-------------------------|--------|--------|---------|---------|---------|------|------|------------------|
|  |                  | 125 Hz                  | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz |      |      |                  |
| <b>1.5BA-36 / 1.5BIA-36 / 1.5PLBA-36</b> |                  |                         |        |        |         |         |         |      |      |                  |
| Poly-Iso                                 | Plain            | 0.09                    | 0.20   | 0.47   | 0.86    | 0.55    | 0.32    | 0.55 | 0.55 | A15-125          |
|  | Encapsulated     | 0.14                    | 0.35   | 0.74   | 0.76    | 0.44    | 0.27    | 0.57 | 0.55 | A15-124          |
| Fiberglass                               | Plain            | 0.68                    | 1.16   | 1.17   | 0.96    | 0.52    | 0.31    | 0.95 | 0.95 | A15-126          |
|  | Encapsulated     | 0.75                    | 0.83   | 0.78   | 0.68    | 0.42    | 0.28    | 0.67 | 0.70 | A15-123          |

**Note:**

- Plain 0.75 pcf (12 kg/m³) fiberglass acoustical insulation standard for all BA decks. Inquire regarding lead time for encapsulated insulation.

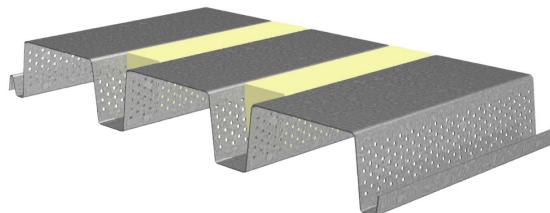
# VULCRAFT NRC ACOUSTICAL SOLUTIONS

## FLUTED ACOUSTICAL DECKS



•3NLA-32 / 3NIA-32 / 3PLNA-32

| Roof<br>Insulation                  | AC<br>Insulation | Absorption Coefficients |        |        |         |         |         |      | RAL  |           |
|-------------------------------------|------------------|-------------------------|--------|--------|---------|---------|---------|------|------|-----------|
|                                     |                  | 125 Hz                  | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | SSA  | NRC  | Test. No. |
| <b>3NLA-32 / 3NIA-32 / 3PLNA-32</b> |                  |                         |        |        |         |         |         |      |      |           |
| Poly-Iso                            | Plain            | 0.23                    | 0.42   | 0.85   | 0.95    | 0.50    | 0.41    | 0.68 | 0.70 | A19-032   |
|                                     | Encapsulated     | 0.30                    | 0.62   | 1.09   | 0.79    | 0.52    | 0.31    | 0.74 | 0.75 | A19-111   |
| Fiberglass                          | Plain            | 0.78                    | 1.17   | 1.20   | 0.98    | 0.50    | 0.41    | 0.96 | 0.95 | A19-031   |
|                                     | Encapsulated     | 0.89                    | 1.08   | 1.09   | 0.74    | 0.46    | 0.30    | 0.83 | 0.85 | A19-110   |
| ½" (13 mm)<br>Roof Board            | Plain            | 0.21                    | 0.41   | 0.81   | 0.89    | 0.49    | 0.41    | 0.64 | 0.65 | A19-033   |



•3NA-24 / 3NIA-24

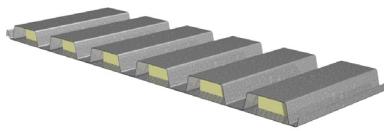
| Roof<br>Insulation      | AC<br>Insulation | Absorption Coefficients |        |        |         |         |         |      | RAL  |           |
|-------------------------|------------------|-------------------------|--------|--------|---------|---------|---------|------|------|-----------|
|                         |                  | 125 Hz                  | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | SSA  | NRC  | Test. No. |
| <b>3NA-24 / 3NIA-24</b> |                  |                         |        |        |         |         |         |      |      |           |
| Poly-Iso                | Plain            | 0.19                    | 0.33   | 0.73   | 0.83    | 0.48    | 0.33    | 0.59 | 0.60 | A15-130   |
|                         | Encapsulated     | 0.17                    | 0.39   | 0.94   | 0.86    | 0.48    | 0.27    | 0.67 | 0.65 | A15-138   |
| Fiberglass              | Plain            | 0.81                    | 1.16   | 1.15   | 0.91    | 0.47    | 0.27    | 0.92 | 0.90 | A15-128   |
|                         | Encapsulated     | 1.07                    | 1.13   | 1.04   | 0.81    | 0.43    | 0.26    | 0.85 | 0.85 | A15-137   |

**Note:**

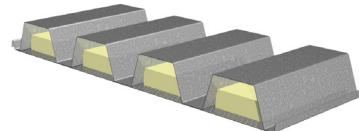
- Plain 0.75 pcf (12 kg/m³) fiberglass acoustical insulation standard for all NA decks. Inquire regarding lead time for encapsulated insulation.

# VULCRAFT NRC ACOUSTICAL SOLUTIONS

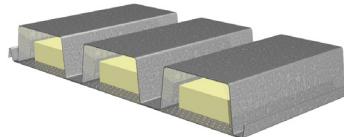
## CELLULAR ACOUSTICAL DECKS



- 1.5BPA-36 / 1.5PLBPA-36 ROOF DECK
- 1.5VLPA-36 / 1.5PLVLPA-36 COMPOSITE DECK

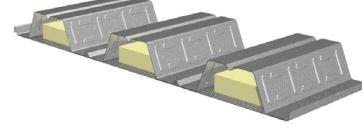
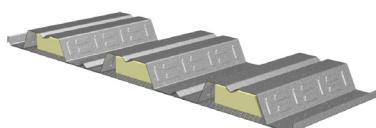


- 3NPA-32 / 3PLNPA-32 ROOF DECK



- 3NPA-24 / 3PLNPA-24 ROOF DECK

| Roof<br>Insulation   | AC<br>Insulation | Absorption Coefficients       |      |      |      |      |      | SSA  | NRC  | RAL<br>Test. No. |
|--|------------------|-------------------------------|------|------|------|------|------|------|------|------------------|
| <b>1.5BPA-36 / 1.5PLBPA-36 ROOF DECK OR 1.5VLPA-36 / 1.5PLVLPA-36 COMPOSITE DECK</b> |                  |                               |      |      |      |      |      |      |      |                  |
| Poly-Iso   | Plain            | 0.27                          | 0.32 | 0.70 | 1.02 | 0.80 | 0.52 | 0.69 | 0.70 | A15-114          |
|  | Encapsulated     | 0.26                          | 0.44 | 0.84 | 0.98 | 0.67 | 0.45 | 0.72 | 0.75 | A15-115          |
| <b>3NPA-32 / 3PLNPA-32 ROOF DECK</b>   |                  |                               |      |      |      |      |      |      |      |                  |
| Poly-Iso   | Plain            | TESTING CURRENTLY IN PROGRESS |      |      |      |      |      |      |      |                  |
|  | Encapsulated     | TESTING CURRENTLY IN PROGRESS |      |      |      |      |      |      |      |                  |
| <b>3NPA-24 / 3PLNPA-24 ROOF DECK</b>   |                  |                               |      |      |      |      |      |      |      |                  |
| Poly-Iso   | Plain            | 0.25                          | 0.47 | 0.92 | 0.75 | 0.62 | 0.54 | 0.69 | 0.70 | A15-141          |
|  | Encapsulated     | 0.39                          | 0.62 | 1.19 | 0.74 | 0.66 | 0.44 | 0.80 | 0.80 | A15-231          |



- 2VLPA-36 / 2PLVLPA-36 COMPOSITE DECK

- 3VLPA-36 / 3PLVLPA-36 COMPOSITE DECK

| Floor                                       | AC<br>Insulation | Absorption Coefficients |      |      |      |      |      | SSA  | NRC  | RAL<br>Test. No. |
|---|------------------|-------------------------|------|------|------|------|------|------|------|------------------|
| <b>2VLPA-36 / 2PLVLPA-36 COMPOSITE DECK</b> |                  |                         |      |      |      |      |      |      |      |                  |
| Concrete                                    | Plain            | 0.31                    | 0.44 | 0.72 | 0.77 | 0.47 | 0.47 | 0.60 | 0.60 | A15-120          |
|   | Encapsulated     | 0.39                    | 0.45 | 0.87 | 0.66 | 0.31 | 0.19 | 0.58 | 0.55 | A15-119          |
| <b>3VLPA-36 / 3PLVLPA-36 COMPOSITE DECK</b> |                  |                         |      |      |      |      |      |      |      |                  |
| Concrete                                    | Plain            | 0.48                    | 0.56 | 1.00 | 0.75 | 0.49 | 0.49 | 0.69 | 0.70 | A15-121          |
|   | Encapsulated     | 0.51                    | 0.63 | 0.83 | 0.49 | 0.39 | 0.28 | 0.58 | 0.60 | A15-122          |

**Note:**

1. Factory installed plain 3.0pcf (48 kg/m<sup>3</sup>) fiberglass acoustical insulation standard for all cellular decks. Inquire regarding lead time for encapsulated insulation.

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