

# CB CONFINED MASONRY BLOCK

**CONFINED MASONRY BLOCK 24"x 8" IS USED TO BUILD CONFINED MASONRY WALLS, REINFORCED WITH VERTICAL AND HORIZONTAL CONFINING ELEMENTS (TIE COLUMNS AND BOND BEAMS).**

Due to its dimensions and finish, it helps to have better performance on site.



DATA SHEET

## SPECS

| PARAMETERS                 | UNITS                       | AAC-4 | AAC-5 | AAC-6 |
|----------------------------|-----------------------------|-------|-------|-------|
| Nominal Density            | lb/ft <sup>3</sup>          | 31.2  | 37.2  | 39.9  |
| Real Density               | lb/ ft <sup>3</sup>         | 37.4  | 44.7  | 47.8  |
| Compressive Strength (min) | psi                         | 580   | 725   | 870   |
| Thermal Conductivity       | BTU·in/ft <sup>2</sup> ·h°F | 0.798 | 0.992 | 1.07  |
| Permeability               | US Perm                     | 0.13  | 0.11  | 0.07  |
| Moisture Adsorption        | % weight                    | 7.61  | 6.31  | 3.9   |



## WORKFORCE PERFORMANCE

| PRODUCT PLACEMENT             | PERFORMANCE                  |
|-------------------------------|------------------------------|
| Bearing wall & Partition wall | 129 ft <sup>2</sup> /workday |
| Squad: Officer and assitant.  |                              |

## STRUCTURAL PROPERTIES

| CONCEPT  | UNITS | ACC-4 | ACC-6 |
|--|-------|-------|-------|
| Design compressive strength of masonry             | (PSI) | 398   | 435   |
| Design resistant shear stress (V*m)                | (PSI) | 57    | 92    |
| Compressive strength of cubes for piles at 28 days | (PSI) | 1920  | 2503  |
| Compressive strength of cubes for walls at 28 days | (PSI) | 1949  | 2532  |

## DIMENSIONS

| THICKNESS<br>e<br>(in) | DESIGN WEIGHT               |                             |                             | PIECE WEIGHT   |                |                | CONTENT PER PALLET             |                                |                                |
|------------------------|-----------------------------|-----------------------------|-----------------------------|----------------|----------------|----------------|--------------------------------|--------------------------------|--------------------------------|
|                        | AAC-4<br>lb/ft <sup>2</sup> | AAC-5<br>lb/ft <sup>2</sup> | AAC-6<br>lb/ft <sup>2</sup> | AAC-4<br>lb/pc | AAC-5<br>lb/pc | AAC-6<br>lb/pc | ft <sup>3</sup><br>x<br>pallet | ft <sup>3</sup><br>x<br>pallet | ft <sup>3</sup><br>x<br>pallet |
| 4                      | 12.28                       | 14.66                       | 15.69                       | 15.9           | 18.9           | 20.3           | 76.3                           | 232.5                          | 180                            |
| 5                      | 15.22                       | 18.02                       | 18.92                       | 19.7           | 23.3           | 24.4           | 76.3                           | 186                            | 144                            |
| 6                      | 18.27                       | 21.62                       | 22.70                       | 23.6           | 27.9           | 29.3           | 76.3                           | 155                            | 120                            |
| 7                      | 21.31                       | 25.23                       | 26.49                       | 27.5           | 32.6           | 34.2           | 71.2                           | 124                            | 96                             |
| 8                      | 24.36                       | 28.83                       | 30.27                       | 31.5           | 37.2           | 39.1           | 71.2                           | 108.5                          | 84                             |
| 10                     | 30.45                       | 36.04                       | 37.84                       | 39.3           | 46.5           | 48.9           | 76.3                           | 93                             | 72                             |
| 12                     | 36.54                       | 43.24                       | 45.40                       | 47.2           | 55.9           | 58.6           | 76.3                           | 77.5                           | 60                             |

