SAFETY

All OBERFIELDS concrete masonry units are manufactured in accordance with ASTM C-90, the industry standard for load bearing concrete masonry units.

Material Safety Data Sheets (MSDS) are available upon request from OBERFIELDS for the products listed in this Guide.

Please note, sawing or grinding of concrete masonry units may result in the release of dust particles, which could cause minor eye or nose irritation if proper protective equipment is not in place. The use of a NIOSH approved respirator and tight goggles is recommended when sawing or grinding operations are in progress. Please contact our Customer Service Center if further information is desired.

TECHNICAL SUPPORT

OBERFIELDS Technical Support Staff will gladly provide written quotations for all your special project needs. To expedite the process, have any dimensional constraints, drawings, and product requirements available for our review.

FIRE RATING

The fire ratings for the concrete masonry units in this Guide were calculated using the equivalent thickness method and based on the use of normal weight aggregates. References include ASTM C90, ASTM C140, TEK 7-1E, International Building Code 2009, and ASTM E119.
UNIT WEIGHT
All weights shown represent OBERFIELDS standard normal weight (Rite-Blok) concrete masonry units manufactured from natural aggregates. Most shapes and sizes can be special ordered in lightweight (Lite-Blok) or medium weight (Mid-Blok). Please contact OBERFIELDS Technical Support Staff for additional information.

To estimate a given product’s weight using lightweight or medium weight raw materials, use the following rule of thumb:

- **Weight of lightweight product =** standard normal weight \( \times 0.85 \)
- **To obtain weight of normal weight product without limestone aggregate use normal weight \( \times 1.05 \)**

**NOTE:** Weight of units manufactured at our Centerville location will vary in weight as specified in this catalog. Please call for exact weight of units.

SCORED CONCRETE MASONRY UNITS
OBERFIELDS offers vertical scores, or false joints, on the majority of its standard concrete masonry units. Typically, one or three scores are preferred. Also, in some instances, both sides of the standard concrete masonry unit can be scored. OBERFIELDS Technical Support Staff will gladly discuss design options and availability.

COMBINATION CUBES
Please note on combination cubes that the ratio of one product to another varies from manufacturing plant to manufacturing plant due to differences in mold sizes and configurations. Please call our Technical Support Staff for additional information.

WEST CUBES
West cubes are available for some concrete masonry units. Please contact our Technical Support Staff for availability.

OBTAINING SAMPLES
Samples of colors, textures, weights, sizes, and shapes can be obtained from OBERFIELDS.

PRODUCT DISCLAIMER
The products shown in this Guide are computer-generated images. These images depict standard gray units. Some color differentiation should be expected with architectural concrete masonry units both smooth & split. Variations are to be expected. Should you require a product not cataloged in this Guide, contact our Technical Support Staff for the manufacturing lead time.

HANDLING DESIGNBLOK™ ARCHITECTURAL CONCRETE MASONRY UNITS ON THE JOB
When handling DesignBLOK™ architectural concrete masonry units on the job, avoid stacking palletized cubes one on top of the other. Pallet stain may occur otherwise. Also, given the demand for multiple colored units on the job, prevent the mixing of colors by checking for changes in colors of the units.

ORDERING SUGGESTIONS
The aesthetic beauty and structural characteristics that concrete masonry possess are being recognized and appreciated. It is important that units are ordered correctly the first time to insure the lowest overall cost, while achieving the finest quality and appearance.

1. Check for changes in quantity and color. With multiple colors, due to the use of accent bands and other color combinations, ordering by OBERFIELDS name and number will help to clarify your order.
2. By using OBERFIELDS Concrete Masonry Product Guide, you can order by OBERFIELDS product number to avoid confusion. If the need arises for a shape or size that is not currently cataloged, check with your salesperson or our Technical Support Staff for the manufacturing lead time. OBERFIELDS invites your requests for custom shapes, sizes, aggregates, textures, weights, and colors.
3. For special orders, contact OBERFIELDS Customer Service Department for lead time.
4. Special units such as corners and halves, correctly ordered at the beginning of the project, will aid in color uniformity.
MISCELLANEOUS

4 16" x 16" x 8" CHIMNEY
16" x 16" x 8"
406 x 406 x 203
UNIT WEIGHT: 61
ON PALLET
45 PER CUBE

CONCRETE BRICK

4 4" x 8" x 16" SOLID
2" x 8" x 16"
51 x 203 x 406
UNIT WEIGHT: 14
ON PALLET
216 PER CUBE

3 3" x 8" x 16" SOLID
3" x 8" x 16"
76 x 203 x 406
UNIT WEIGHT: 22
ON PALLET
144 PER CUBE
RATED .75 HOURS

5 16" x 20" x 8" CHIMNEY
16" x 20" x 8"
406 x 508 x 203
UNIT WEIGHT: 75
ON PALLET
30 PER CUBE

6 10" x 20" x 8" CHIMNEY HALF BLOCK FOR 20" x 20" x 8"
10" x 20" x 8"
254 x 508 x 203
UNIT WEIGHT: 56
ON PALLET
40 PER CUBE

8 2" x 4" x 8" CONCRETE BRICK
2" x 4" x 8"
51 x 102 x 203
UNIT WEIGHT: 5
ON PALLET
720 PER CUBE

9 4" x 5" x 8" CONCRETE DOUBLE BRICK
4" x 5" x 8"
102 x 127 x 203
UNIT WEIGHT: 10
ON PALLET
378 PER CUBE

10 4" x 4" x 16" SOLID FROGGED ON TOP
4" x 4" x 16"
102 x 102 x 406
UNIT WEIGHT: 15
ON PALLET
216 PER CUBE
RATED 1.5 HOURS

11 4" x 8" x 8" SOLID
4" x 8" x 8"
102 x 203 x 203
UNIT WEIGHT: 12
ON PALLET
144 PER CUBE
NON-STOCK

12 4" x 8" x 12" SOLID
4" x 8" x 12"
102 x 203 x 305
UNIT WEIGHT: 23
ON PALLET
144 PER CUBE

13 4" x 8" x 16" SOLID
4" x 8" x 16"
102 x 203 x 406
UNIT WEIGHT: 31
ON PALLET OR ON 8s
108 PER CUBE
RATED 1.5 HOURS

14 4" SOLID 45 DEGREE
4" x 8" x 11"
102 x 203 x 280 x 76
UNIT WEIGHT: 28
ON PALLET
90 PER CUBE

14a 4" x 8" x 16" SOLID L CORNER & END
4" x 8" x 16"
102 x 203 x 406
UNIT WEIGHT: 31
ON PALLET
108 PER CUBE
NON-STOCK

15 4" x 4" x 16" DOUBLE END
4" x 4" x 16"
102 x 102 x 406
UNIT WEIGHT: 12
ON PALLET
288 PER CUBE
NON-STOCK

16 4" x 4" x 16" DOUBLE END BREAKER
4" x 4" x 16"
102 x 102 x 406
UNIT WEIGHT: 12
NON-STOCK

ON PALLET

WWW.OBERFIELDS.COM 614.252.0955 740.369.7644 937.885.3711 800.845.7644 740.363.7644
info@oberfields.com WWW.OBERFIELDS.COM
<table>
<thead>
<tr>
<th>SNO</th>
<th>DESCRIPTION</th>
<th>DIMENSIONS</th>
<th>UNIT WEIGHT</th>
<th>STOREutta</th>
<th>RATING</th>
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<tr>
<td>18</td>
<td>4&quot; x 6&quot; x 16&quot; DOUBLE END</td>
<td>102 x 152 x 406</td>
<td>15</td>
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<td>1 HOUR</td>
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<td>19</td>
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<td>102 x 152 x 406</td>
<td>24</td>
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<td>1 HOUR</td>
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<td>1 HOUR</td>
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<td>23</td>
<td>4&quot; x 8&quot; x 16&quot; DOUBLE END</td>
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<td>24</td>
<td>4&quot; x 8&quot; x 16&quot; DOUBLE END BREAKER</td>
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<td>1 HOUR</td>
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<td>25</td>
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<td>3 HOURS</td>
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<td>26</td>
<td>4&quot; x 8&quot; x 8&quot; SOLID BULLNOSE</td>
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<td>16</td>
<td>ON PALLET</td>
<td>3 HOURS</td>
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<tr>
<td>27</td>
<td>4&quot; x 8&quot; x 8&quot; SINGLE BULLNOSE &amp; END</td>
<td>102 x 203 x 203</td>
<td>16</td>
<td>ON PALLET</td>
<td>3 HOURS</td>
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<td>102 x 203 x 203</td>
<td>16</td>
<td>ON PALLET</td>
<td>3 HOURS</td>
</tr>
<tr>
<td>29</td>
<td>4&quot; x 8&quot; x 12&quot; SINGLE BULLNOSE &amp; END</td>
<td>102 x 203 x 305</td>
<td>16</td>
<td>ON PALLET</td>
<td>3 HOURS</td>
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<td>30</td>
<td>4&quot; x 8&quot; x 16&quot; SINGLE BULLNOSE &amp; END</td>
<td>102 x 203 x 406</td>
<td>24</td>
<td>ON PALLET</td>
<td>3 HOURS</td>
</tr>
<tr>
<td>31</td>
<td>4&quot; x 8&quot; x 16&quot; DOUBLE BULLNOSE &amp; END</td>
<td>102 x 203 x 406</td>
<td>24</td>
<td>ON PALLET</td>
<td>3 HOURS</td>
</tr>
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<td>32</td>
<td>6&quot; x 8&quot; x 16&quot; SOLID</td>
<td>152 x 203 x 406</td>
<td>46</td>
<td>ON PALLET</td>
<td>3 HOURS</td>
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Shades 43-46 available in a Spec-BRIK® finish.
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<tr>
<th>Code</th>
<th>Description</th>
<th>Dimensions</th>
<th>Unit Weight</th>
<th>Pallet Info</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>51</td>
<td>6&quot; x 8&quot; x 8&quot; Double Bullnose &amp; End</td>
<td>6&quot; x 8&quot; x 8&quot;</td>
<td>152 x 203 x 203</td>
<td>ON PALLET 216 PER CUBE</td>
<td>NON-STOCK</td>
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<tr>
<td>52</td>
<td>6&quot; x 8&quot; x 14&quot; Single Bullnose</td>
<td>6&quot; x 8&quot; x 14&quot;</td>
<td>152 x 203 x 356</td>
<td>ON PALLET 126 PER CUBE</td>
<td>NON-STOCK</td>
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<td>53</td>
<td>6&quot; x 8&quot; x 16&quot; Single Bullnose &amp; End</td>
<td>6&quot; x 8&quot; x 16&quot;</td>
<td>152 x 203 x 406</td>
<td>ON PALLET 108 PER CUBE</td>
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<td>54</td>
<td>6&quot; x 8&quot; x 16&quot; Double Bullnose &amp; End</td>
<td>6&quot; x 8&quot; x 16&quot;</td>
<td>152 x 203 x 406</td>
<td>ON PALLET 108 PER CUBE</td>
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<td>203 x 203 x 406</td>
<td>ON PALLET 54 PER CUBE</td>
<td>RATED 4 HOURS</td>
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<tr>
<td>56</td>
<td>8&quot; x 8&quot; x 16&quot; Solid Header</td>
<td>8&quot; x 8&quot; x 16&quot;</td>
<td>203 x 203 x 406</td>
<td>ON 8s 72 PER CUBE</td>
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<td>56a</td>
<td>8&quot; x 8&quot; x 16&quot; Open Core Solid Header</td>
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<td>203 x 203 x 406</td>
<td>ON 8s 72 PER CUBE</td>
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<td>57</td>
<td>8&quot; x 4&quot; x 12&quot; Restricted Bond Beam</td>
<td>8&quot; x 4&quot; x 12&quot;</td>
<td>203 x 102 x 305</td>
<td>ON PALLET 192 PER CUBE</td>
<td></td>
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<tr>
<td>58</td>
<td>8&quot; x 4&quot; x 12&quot; Double End*</td>
<td>8&quot; x 4&quot; x 12&quot;</td>
<td>203 x 102 x 305</td>
<td>ON PALLET 192 PER CUBE</td>
<td>RATED 2 HOURS</td>
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<tr>
<td>59</td>
<td>8&quot; x 4&quot; x 16&quot; Double End*</td>
<td>8&quot; x 4&quot; x 16&quot;</td>
<td>203 x 102 x 406</td>
<td>ON PALLET 192 PER CUBE</td>
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<td>60</td>
<td>8&quot; x 4&quot; x 16&quot; Double End Breaker*</td>
<td>8&quot; x 4&quot; x 16&quot;</td>
<td>203 x 102 x 406</td>
<td>ON PALLET 192 PER CUBE</td>
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</tr>
<tr>
<td>61</td>
<td>8&quot; x 4&quot; x 16&quot; Sash &amp; End*</td>
<td>8&quot; x 4&quot; x 16&quot;</td>
<td>203 x 102 x 406</td>
<td>ON PALLET 192 PER CUBE</td>
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<tr>
<td>62</td>
<td>8&quot; x 4&quot; x 16&quot; Double Sash Breaker*</td>
<td>8&quot; x 4&quot; x 16&quot;</td>
<td>203 x 102 x 406</td>
<td>ON PALLET 192 PER CUBE</td>
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<tr>
<td>63</td>
<td>8&quot; x 4&quot; x 16&quot; Double End*</td>
<td>8&quot; x 4&quot; x 16&quot;</td>
<td>203 x 102 x 406</td>
<td>ON PALLET 192 PER CUBE</td>
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<tr>
<td>63a</td>
<td>8&quot; x 4&quot; x 16&quot; Restricted Bond Beam</td>
<td>8&quot; x 4&quot; x 16&quot;</td>
<td>203 x 102 x 406</td>
<td>ON PALLET 192 PER CUBE</td>
<td></td>
</tr>
</tbody>
</table>

* Architectural cubed CMU’s only
64 8" x 8" x 16"  
DOUBLE END*  
8" x 8" x 16"  
203 x 152 x 406  
UNIT WEIGHT: 25

65 8" x 8" x 16" DOUBLE END BREAKER*  
8" x 8" x 16"  
203 x 152 x 406  
UNIT WEIGHT: 54

66 8" x 8" x 16"  
SASH & END*  
8" x 8" x 16"  
203 x 152 x 406  
UNIT WEIGHT: 54

67 8" x 8" x 16" DOUBLE SASH BREAKER*  
8" x 8" x 16"  
203 x 152 x 406  
UNIT WEIGHT: 54

67a 8" x 8" x 16" DOUBLE END*  
8" x 8" x 16"  
203 x 152 x 406  
UNIT WEIGHT: 36

68a 8" x 8" x 16" DOUBLE END  
8" x 8" x 16"  
203 x 203 x 406  
UNIT WEIGHT: 36

68b 8" x 8" x 16" DOUBLE END BREAKER*  
8" x 8" x 16"  
203 x 203 x 406  
UNIT WEIGHT: 36

68c 8" x 8" x 16" SASH & END*  
8" x 8" x 16"  
203 x 203 x 406  
UNIT WEIGHT: 36

68d 8" x 8" x 16" DOUBLE SASH BREAKER*  
8" x 8" x 16"  
203 x 203 x 406  
UNIT WEIGHT: 36

68e 8" x 8" x 16" DOUBLE END*  
8" x 8" x 16"  
203 x 203 x 406  
UNIT WEIGHT: 36

69 8" x 8" x 8" SASH & END  
8" x 8" x 8"  
203 x 203 x 203  
UNIT WEIGHT: 21

ON PALLET 144 PER CUBE

70 8" x 8" x 12"  
DOUBLE END  
8" x 8" x 12"  
203 x 203 x 305  
UNIT WEIGHT: 29

ON PALLET 120 PER CUBE

71 8" x 8" x 16"  
45 DEGREE  
8" x 8" x 16"  
203 x 203 x 406  
UNIT WEIGHT: 42

ON PALLET 108 PER CUBE

72 8" x 8" x 16" STRETCHER  
8" x 8" x 16"  
203 x 203 x 406  
UNIT WEIGHT: 34

ON PALLET 108 PER CUBE

73 8" x 8" x 16" SASH & END  
8" x 8" x 16"  
203 x 203 x 406  
UNIT WEIGHT: 35

ON PALLET 108 PER CUBE

74 8" x 8" x 16"  
2 HOUR STRETCHER  
8" x 8" x 16"  
203 x 203 x 406  
UNIT WEIGHT: 36

RATED 2 HOURS

75 8" x 8" x 16"  
2 HOUR SASH & END  
8" x 8" x 16"  
203 x 203 x 406  
UNIT WEIGHT: 36

RATED 2 HOURS

76 8" x 8" x 16"  
3 HOUR STRETCHER  
8" x 8" x 16"  
203 x 203 x 406  
UNIT WEIGHT: 42

RATED 3 HOURS

77 8" x 8" x 16"  
3 HOUR SASH & END BREAKER  
8" x 8" x 16"  
203 x 203 x 406  
UNIT WEIGHT: 44

RATED 3 HOURS

* Architectural cubed CMU’s only
**DEEP 4 FLUTE SPLIT FACE**

217  12" x 8" x 16" STRETCHER DEEP 4 FLUTE SPLIT FACE

- 12" x 8" x 16"
- 305 x 203 x 406
- UNIT WEIGHT: 58
- NON-STOCK

218  12" x 8" x 16" SASH & END BREAKER DEEP 4 FLUTE SPLIT FACE

- 12" x 8" x 16"
- 305 x 203 x 406
- UNIT WEIGHT: 59
- NON-STOCK

219  4" x 8" x 12" SOLID CORNER & END DEEP 4 FLUTE SPLIT FACE

- 4" x 8" x 12"
- 102 x 203 x 305
- UNIT WEIGHT: 24
- ON PALLET 96 PER CUBE
- NON-STOCK

220  4" x 8" x 16" SOLID DOUBLE END DEEP 4 FLUTE SPLIT FACE

- 4" x 8" x 16"
- 102 x 203 x 406
- UNIT WEIGHT: 30
- ON PALLET 108 PER CUBE
- NON-STOCK

221  8" x 8" x 16" STRETCHER DEEP 4 FLUTE SPLIT FACE

- 8" x 8" x 16"
- 203 x 203 x 406
- UNIT WEIGHT: 55
- NON-STOCK

222  8" x 8" x 16" SASH & END BREAKER DEEP 4 FLUTE SPLIT FACE

- 8" x 8" x 16"
- 203 x 203 x 406
- UNIT WEIGHT: 56
- NON-STOCK

223  10" x 8" x 16" STRETCHER DEEP 4 FLUTE SPLIT FACE

- 10" x 8" x 16"
- 254 x 203 x 406
- UNIT WEIGHT: 55
- NON-STOCK

224  10" x 8" x 16" SASH & END BREAKER DEEP 4 FLUTE SPLIT FACE

- 10" x 8" x 16"
- 254 x 203 x 406
- UNIT WEIGHT: 56
- NON-STOCK

225  12" x 8" x 16" STRETCHER DEEP 4 FLUTE SPLIT FACE

- 12" x 8" x 16"
- 305 x 203 x 406
- UNIT WEIGHT: 62
- ON PALLET 55 PER CUBE
- NON-STOCK

226  4" x 8" x 16" SOLID DOUBLE END WIDE 4 FLUTE SPLIT FACE

- 4" x 8" x 16"
- 102 x 203 x 406
- UNIT WEIGHT: 30
- ON PALLET 144 PER CUBE
- NON-STOCK

227  4" x 8" x 16" SOLID 45 DEGREE CORNER & END WIDE 4 FLUTE SPLIT FACE

- 4" x 8" x 16"
- 102 x 203 x 406
- UNIT WEIGHT: 26
- ON PALLET 144 PER CUBE
- NON-STOCK

228  8" x 8" x 16" 45 DEGREE CORNER & END WIDE 4 FLUTE SPLIT FACE

- 8" x 8" x 16"
- 203 x 203 x 406
- UNIT WEIGHT: 45
- ON PALLET 75 PER CUBE
- NON-STOCK

**WIDE 4 FLUTE SPLIT FACE**

217  12" x 8" x 16" STRETCHER DEEP 4 FLUTE SPLIT FACE

- 12" x 8" x 16"
- 305 x 203 x 406
- UNIT WEIGHT: 58
- NON-STOCK

SPECIAL NOTE: WHEN YOU PURCHASE 225 YOU MUST ALSO PURCHASE 221 IN EQUAL AMOUNTS BECAUSE WHEN WE MANUFACTURE A 12" DEEP 4 FLUTE, AN 8" DEEP 4 FLUTE IS MADE IN CONJUNCTION.
289 10" x 8" x 16" TYPE RSC/RF (10") SOUNDBLOX
10" x 8" x 16"
254 x 203 x 406
UNIT WEIGHT: 51
ON Pallet
72 PER CUBE
NON-STOCK
STRAIGHT THROUGH CAVITIES

290 12" x 8" x 16" TYPE RSC/RF (12") SOUNDBLOX
12" x 8" x 16"
305 x 203 x 406
UNIT WEIGHT: 59
ON Pallet
60 PER CUBE
NON-STOCK
STRAIGHT THROUGH CAVITIES

291 12" x 8" x 16" TYPE RSC/RF (12") SOUNDBLOX
12" x 8" x 16"
305 x 203 x 406
UNIT WEIGHT: 59
ON Pallet
60 PER CUBE
NON-STOCK
STRAIGHT THROUGH CAVITIES

297 12" x 4" x 16" Hi R SMOOTH
12" x 4" x 16"
305 x 102 x 406
UNIT WEIGHT: 22
ON Pallet
120 PER CUBE
NON-STOCK

298 12" x 4" x 16" Hi R SPLIT FACE
12" x 4" x 16"
305 x 102 x 406
UNIT WEIGHT: 23
ON Pallet
120 PER CUBE
NON-STOCK

299 12" x 8" x 16" Hi R SMOOTH
12" x 8" x 16"
305 x 203 x 406
UNIT WEIGHT: 43
ON Pallet
60 PER CUBE
NON-STOCK

300 12" x 8" x 16" Hi R SPLIT FACE
12" x 8" x 16"
305 x 203 x 406
UNIT WEIGHT: 44
ON Pallet
60 PER CUBE
NON-STOCK

301 4" x 4" x 16" SOLID TUMBLED FROGGED
4" x 4" x 16"
102 x 102 x 406
UNIT WEIGHT: 17
ON Pallet
NON-STOCK

302 4" x 8" x 8" SOLID TUMBLED
4" x 8" x 8"
102 x 203 x 203
UNIT WEIGHT: 17
ON Pallet
NON-STOCK

303 4" x 8" x 16" SOLID TUMBLED FROGGED
4" x 8" x 16"
102 x 203 x 406
UNIT WEIGHT: 34
ON Pallet
NON-STOCK

Hi R® ENERGY WALL SYSTEM

ARTISTRY SERIES
CORNER DETAILS (CONTINUED)

M  12" WALL USING 8" x 8" x 16" CORNER & END SPLIT FACE

N  12" WALL USING 4" x 8" x 12" CORNER & END DEEP 4 FLUTE SPLIT FACE

O  12" WALL USING 12" x 8" x 16" RETURN CORNER

P  14" WALL USING 6" x 8" x 14" DOUBLE END

Q  16" WALL USING 8" x 8" x 16" CORNER & END DEEP 4 FLUTE SPLIT FACE

R  4" WALL USING 4" x 12" x 16" SOLID CORNER & END SPLIT FACE OR SAND BLOWED

PIER DETAILS

8" UNITS

8" & 12" UNITS
### Length of Concrete Masonry Walls by Stretcher

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<thead>
<tr>
<th>No. of Stretchers</th>
<th>Wall Length</th>
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<tr>
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<td>1'4&quot;</td>
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<td>1.5</td>
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<tr>
<td>2</td>
<td>2'8&quot;</td>
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<td>2.5</td>
<td>3'4&quot;</td>
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<td>5.5</td>
<td>7'4&quot;</td>
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<tr>
<td>6</td>
<td>8'0&quot;</td>
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<tr>
<td>6.5</td>
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</tr>
<tr>
<td>7</td>
<td>9'4&quot;</td>
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<td>10'0&quot;</td>
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<td>11'4&quot;</td>
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<td>12'0&quot;</td>
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<tr>
<td>9.5</td>
<td>12'8&quot;</td>
</tr>
<tr>
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<td>17'4&quot;</td>
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<td>15</td>
<td>20'0&quot;</td>
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<tr>
<td>15.5</td>
<td>20'8&quot;</td>
</tr>
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</table>

* Based on concrete blocks 15\(\frac{1}{2}\) in. long and half units 7\(\frac{3}{8}\) in. long, with 3\(\frac{3}{8}\) in. thick head joints. Actual lengths of finished walls are 3\(\frac{3}{8}\) in. less than the modular dimensions shown in this table.

### Height of Concrete Masonry Walls by Courses

<table>
<thead>
<tr>
<th>No. of Courses</th>
<th>3/8” Bed Joint</th>
<th>7/16” Bed Joint</th>
<th>1/2” Bed Joint</th>
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<tbody>
<tr>
<td>8” Block</td>
<td>4” Block</td>
<td>8” block</td>
<td>8” block</td>
</tr>
<tr>
<td>1</td>
<td>8”</td>
<td>4”</td>
<td>8(\frac{1}{16})”</td>
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<tr>
<td>2</td>
<td>1’4”</td>
<td>8”</td>
<td>1’4(\frac{1}{8})”</td>
</tr>
<tr>
<td>3</td>
<td>2’0”</td>
<td>1’0”</td>
<td>2’3(\frac{3}{8})”</td>
</tr>
<tr>
<td>4</td>
<td>2’8”</td>
<td>1’4”</td>
<td>2’8(\frac{3}{4})”</td>
</tr>
<tr>
<td>5</td>
<td>3’4”</td>
<td>1’8”</td>
<td>3’4(\frac{1}{2})”</td>
</tr>
<tr>
<td>6</td>
<td>4’0”</td>
<td>2’0”</td>
<td>4’3(\frac{3}{8})”</td>
</tr>
<tr>
<td>7</td>
<td>4’8”</td>
<td>2’4”</td>
<td>4’8(\frac{1}{16})”</td>
</tr>
<tr>
<td>8</td>
<td>5’4”</td>
<td>2’8”</td>
<td>5’4(\frac{1}{2})”</td>
</tr>
<tr>
<td>9</td>
<td>6’0”</td>
<td>3’0”</td>
<td>6’9(\frac{1}{16})”</td>
</tr>
<tr>
<td>10</td>
<td>6’8”</td>
<td>3’4”</td>
<td>6’8(\frac{1}{4})”</td>
</tr>
<tr>
<td>11</td>
<td>10’0”</td>
<td>5’0”</td>
<td>10’1(\frac{1}{16})”</td>
</tr>
<tr>
<td>12</td>
<td>13’4”</td>
<td>6’8”</td>
<td>13’5(\frac{3}{4})”</td>
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<tr>
<td>13</td>
<td>16’8”</td>
<td>8’4”</td>
<td>16’9(\frac{1}{16})”</td>
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<tr>
<td>14</td>
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<td>10’0”</td>
<td>19’1(\frac{1}{4})”</td>
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<tr>
<td>15</td>
<td>20’0”</td>
<td>10’0”</td>
<td>20’1(\frac{1}{8})”</td>
</tr>
<tr>
<td>16</td>
<td>23’4”</td>
<td>11’8”</td>
<td>23’6(\frac{1}{16})”</td>
</tr>
<tr>
<td>17</td>
<td>26’8”</td>
<td>13’4”</td>
<td>26’10(\frac{1}{2})”</td>
</tr>
<tr>
<td>18</td>
<td>30’0”</td>
<td>15’0”</td>
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<td>18’4”</td>
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<td>46’8”</td>
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<tr>
<td>24</td>
<td>50’0”</td>
<td>25’0”</td>
<td>50’2(\frac{1}{4})”</td>
</tr>
</tbody>
</table>

* Based on concrete blocks 15\(\frac{1}{2}\) in. long and half units 7\(\frac{3}{8}\) in. long, with 3\(\frac{3}{8}\) in. thick head joints. Actual lengths of finished walls are 3\(\frac{3}{8}\) in. less than the modular dimensions shown in this table.
ESTIMATING GUIDES

UNIT QUANTITIES
Standard Block (8x8x16)
1.13 block per square foot of wall area

Concrete Brick
7.0 concrete brick per square foot of wall area

Half-High Block (4x4x16 or 8x4x16)
2.26 block per square foot of wall area

MORTAR QUANTITIES

<table>
<thead>
<tr>
<th>Per 1000 Units</th>
<th>Masonry Cement Bags</th>
<th>Sand Tons</th>
</tr>
</thead>
<tbody>
<tr>
<td>4&quot; and 6&quot; Regular Block</td>
<td>20</td>
<td>2</td>
</tr>
<tr>
<td>8&quot;, 10&quot;, and 12&quot; Regular Block</td>
<td>25</td>
<td>2 1/2</td>
</tr>
<tr>
<td>Concrete Brick</td>
<td>8</td>
<td>1 1/4</td>
</tr>
</tbody>
</table>

APPROXIMATE VOLUME REQUIRED TO FILL CORE VOIDS IN BLOCK

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Number of Core Holes</th>
<th>Volume per Block</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 x 8 x 16</td>
<td>2 core</td>
<td>0.17 cu.ft./block</td>
</tr>
<tr>
<td>6 x 8 x 16</td>
<td>3 core</td>
<td>0.15 cu.ft./block</td>
</tr>
<tr>
<td>8 x 8 x 16</td>
<td>2 core</td>
<td>0.25 cu.ft./block</td>
</tr>
<tr>
<td>8 x 8 x 16</td>
<td>3 core</td>
<td>0.22 cu.ft./block</td>
</tr>
<tr>
<td>10 x 8 x 16</td>
<td>2 core</td>
<td>0.33 cu.ft./block</td>
</tr>
<tr>
<td>10 x 8 x 16</td>
<td>3 core</td>
<td>0.29 cu.ft./block</td>
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<tr>
<td>12 x 8 x 16</td>
<td>2 core</td>
<td>0.39 cu.ft./block</td>
</tr>
<tr>
<td>12 x 8 x 16</td>
<td>3 core</td>
<td>0.34 cu.ft./block</td>
</tr>
</tbody>
</table>

Example: 5000 - 8" - 2 core H.C. to be filled
5000 x 0.25 = 1250 cu. ft. + 27 cu. ft. per yard
= 46.30 yards

APPROXIMATE QUANTITIES OF CONCRETE REQUIRED TO FILL LINTERLS AND BOND BEAMS

- .74 cu.ft. concrete per lin. ft.
- .46 cu.ft. concrete per lin. ft.
- .37 cu.ft. concrete per lin. ft.
- .22 cu.ft. concrete per lin. ft.
- .173 cu.ft. concrete per lin. ft.
- .08 cu.ft. concrete per lin. ft.
REQUIRED SPECIFICATIONS:
1. Units are available with or without standard drips. Number and location of drip edges must be specified.
2. Unit lengths must be specified for molds that have end gates.
3. Colors other than standard gray are available and must be specified.
4. Finish textures other than standard smooth, dense concrete are available and must be specified.
REQUIRED SPECIFICATIONS:
1. Units are available with or without standard drips. Number and location of drip edges must be specified.
2. Unit lengths must be specified for molds that have end gates.
3. Colors other than standard gray are available and must be specified.
4. Finish textures other than standard smooth, dense concrete are available and must be specified.

CLEANING CONCRETE MASONRY

NEW CONSTRUCTION

In order to reduce the amount of cleaning required at the completion of a building, walls should be cleaned each day. Mortar droppings should be allowed to harden slightly, then scraped off with a trowel or wood scraper. A small piece of broken block is also effective, followed by brushing with a stiff bristle or stainless steel wire brush (never use a steel wire brush).

Good masonry practices will minimize the amount of final cleaning significantly. Turning scaffolding boards at the end of the day and using sand or straw at the base of the wall will eliminate stains that are very difficult to remove later. Another important step is to cover the top of unfinished walls at the end of each day. This will prevent water from entering the cavities and will help prevent efflorescence. The plastic or tarps should drape at least two feet down each side of the wall.

Final cleaning will be easier if it occurs approximately one week after completion of walls (newly constructed walls must set 4 or 5 days to allow the mortar to harden prior to cleaning).

Never use high pressure cleaning! The use of high pressure power washers will most certainly alter the appearance of a concrete masonry wall and could cause unrepairable damage to the building. A pressure washer with a maximum of 200 psi and a wide flare nozzle held 12 to 18 inches from the surface will give excellent results on most projects. Pre-wetting walls is a necessary first step. Work in sections from top down for best results.

CHEMICAL CLEANING

If good masonry practices are followed, chemical cleaning will seldom be necessary. If required, consult project specifications or call OBERFIELDS LLC for product recommendations.

Follow mix solutions and directions of manufacturer. Always pre-wet surfaces prior to application of any cleaning solution.

Oil stains, grease, graffiti or efflorescence removal, refer to N.C.M.A. Tek Notes 8.1, 8.2, 8.3, and 8.4. Copies of these teks are available from OBERFIELDS LLC, www.oberfields.com, or The National Concrete Masonry Association.

CLEANING CONCRETE MASONRY

OBERFIELDS LLC. recommended procedure for cleaning concrete masonry surfaces.

C-37

DATE: Sept. 1, 2011
SCALE: 3/16" = 1"
DRAWN BY: Lew Wood
NUMBER of MOLDS: 7

DESCRIPTION: Sill

C-44

DATE: Sept. 1, 2011
SCALE: 3/16" = 1"
DRAWN BY: Lew Wood
NUMBER of MOLDS: 4

DESCRIPTION: Sill

Std. drip available on 1 or both edges.
## Concrete Lintels

### Block Textured Lintels - Normal Weight

<table>
<thead>
<tr>
<th>Lintel Length</th>
<th>Clear Span</th>
<th>Nominal 4x8</th>
<th></th>
<th>Nominal 6x8</th>
<th></th>
<th>Nominal 8x8</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>24&quot; (2'-0&quot;)</td>
<td>13913</td>
<td>13913</td>
<td>1-#3 B</td>
<td>48</td>
<td></td>
<td></td>
<td>112</td>
</tr>
<tr>
<td>28&quot; (2'-4&quot;)</td>
<td>8894</td>
<td>8894</td>
<td>1-#3 T 1-#3 B</td>
<td>72</td>
<td>4585</td>
<td>4585</td>
<td>149</td>
</tr>
<tr>
<td>32&quot; (2'-8&quot;)</td>
<td>4078</td>
<td>4078</td>
<td>1-#3 T 1-#3 B</td>
<td>96</td>
<td>2498</td>
<td>2498</td>
<td>124</td>
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<td>36&quot; (3'-0&quot;)</td>
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<td>2955</td>
<td>1-#3 T 1-#3 B</td>
<td>112</td>
<td>1911</td>
<td>1911</td>
<td>174</td>
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<td>40&quot; (3'-4&quot;)</td>
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<td>1-#3 T 1-#3 B</td>
<td>128</td>
<td>1544</td>
<td>1544</td>
<td>199</td>
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<td>48&quot; (4'-0&quot;)</td>
<td>1610</td>
<td>1610</td>
<td>1-#3 T 1-#3 B</td>
<td>144</td>
<td>1293</td>
<td>1293</td>
<td>223</td>
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<tr>
<td>56&quot; (4'-8&quot;)</td>
<td>1231</td>
<td>1231</td>
<td>1-#3 T 1-#3 B</td>
<td>160</td>
<td>1110</td>
<td>1110</td>
<td>248</td>
</tr>
<tr>
<td>64&quot; (5'-4&quot;)</td>
<td>995</td>
<td>995</td>
<td>1-#3 T 1-#3 B</td>
<td>176</td>
<td>960</td>
<td>960</td>
<td>273</td>
</tr>
<tr>
<td>72&quot; (6'-0&quot;)</td>
<td>833</td>
<td>833</td>
<td>1-#3 T 1-#3 B</td>
<td>192</td>
<td>853</td>
<td>853</td>
<td>298</td>
</tr>
<tr>
<td>80&quot; (6'-8&quot;)</td>
<td>660</td>
<td>660</td>
<td>1-#3 T 1-#3 B</td>
<td>224</td>
<td>686</td>
<td>670</td>
<td>347</td>
</tr>
<tr>
<td>88&quot; (7'-4&quot;)</td>
<td>619</td>
<td>619</td>
<td>1-#3 T 1-#3 B</td>
<td>240</td>
<td>656</td>
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<td>96&quot; (8'-0&quot;)</td>
<td>550</td>
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<td>1-#3 T 1-#3 B</td>
<td>256</td>
<td>599</td>
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<td>397</td>
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<td>112&quot; (9'-4&quot;)</td>
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<td>1-#3 T 1-#3 B</td>
<td>272</td>
<td>960</td>
<td>670</td>
<td>434</td>
</tr>
<tr>
<td>120&quot; (10'-0&quot;)</td>
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<td>319</td>
<td>1-#3 T 1-#3 B</td>
<td>288</td>
<td>853</td>
<td>594</td>
<td>471</td>
</tr>
<tr>
<td>128&quot; (10'-8&quot;)</td>
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<td>252</td>
<td>1-#3 T 1-#3 B</td>
<td>303</td>
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<td>505</td>
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<tr>
<td>136&quot; (11'-4&quot;)</td>
<td>325</td>
<td>254</td>
<td>1-#3 T 1-#3 B</td>
<td>336</td>
<td>960</td>
<td>700</td>
<td>572</td>
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<tr>
<td>144&quot; (12'-0&quot;)</td>
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<td>206</td>
<td>1-#3 T 1-#3 B</td>
<td>370</td>
<td>1302</td>
<td>1277</td>
<td>600</td>
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### Dense Textured Lintels

<table>
<thead>
<tr>
<th>Lintel Length</th>
<th>Clear Span</th>
<th>Nominal 4x8</th>
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<th>Nominal 6x8</th>
<th></th>
<th>Nominal 8x8</th>
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</tr>
</thead>
<tbody>
<tr>
<td>136&quot; (11'-4&quot;)</td>
<td>9'-4&quot;</td>
<td>319</td>
<td>249</td>
<td>1-#4 T</td>
<td>272</td>
<td></td>
<td></td>
</tr>
<tr>
<td>144&quot; (12'-0&quot;)</td>
<td>10'-0&quot;</td>
<td>259</td>
<td>202</td>
<td>1-#6 B TRUSSED</td>
<td>288</td>
<td></td>
<td></td>
</tr>
<tr>
<td>160&quot; (13'-4&quot;)</td>
<td>11'-4&quot;</td>
<td>215</td>
<td>166</td>
<td>1-#4 T 1-#7 B TRUSSED</td>
<td>320</td>
<td></td>
<td></td>
</tr>
<tr>
<td>168&quot; (14'-0&quot;)</td>
<td>12'-0&quot;</td>
<td>179</td>
<td>138</td>
<td>336</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

All dense concrete lintels have #3 inclined stirrups at 6" c/c welded to top and bottom reinforcing.

### Steel Rebar Locations

- **Block Textured Lintels**
  - 4x8: 24"-32"
  - 4x8: 36"-144"
  - 6x8: ALL SIZES
  - 8x8: ALL SIZES

### Structural Design Notes: Based on ACI 318-11

1. Loading shown is superimposed load capacity of lintel.
2. Concrete compressive strength:
   - For Block Textured Lintels - f'c = 2500 psi
   - For Dense Textured Lintels - f'c = 5000 psi
3. Reinforcing yield strength - fy = 60,000 psi
4. Clear Cover = 3/4" (Top & Bottom)
5. Minimum bearing length:
   - 8" for lintels less than 10 ft
   - 12" for lintels 10 ft and longer
6. Lintel deflection limits:
   - L/480 when supporting reinforced masonry
   - L/600 when supporting unreinforced masonry
7. LRFD Load Combinations: D = Dead Load, L = Live Load
   - 1.4D, 1.2D + 1.6L (Refer to ACI Chapter 9 for additional load cases)
Why try to improve on one of the most trusted construction materials available? Water Control Technology (WCT) is based on preserving the superior performance characteristics of concrete masonry units while adding features that improve the ability of masonry wall assemblies to resist moisture penetration. Subtle changes were made to the top surface of each WCT units web to discourage water from crossing to the interior face shell. Corners and ends can use the WCT drainage zones without compromising aesthetics or performance. This innovation is fully compliant with ASTM C 90 and is a standard feature on all architectural masonry units produced by OBERFIELDS.

- WCT units feature integral drainage zones that direct moisture to the wall’s drainage system.
- No special installation techniques required—cost effectiveness is assured.
- WCT units are suitable for corners and ends for a complete system.
- All units have integral water repellent in their mix design.
- WCT units meet or exceed ASTM C 90.
- Perfect for both single or multi-wythe walls.
- Offered in a wide variety of shapes and sizes.

TESTING

WCT units were spray bar tested with no mortar (just gaps) alongside a traditional block design with a water flow rate equivalent to 180” of rain per hour for a half hour and then at a rate of 30” of rain for an additional 24 hours.

RESULT: the traditional block began to show moisture penetration to the interior surface after 11 seconds. The WCT block completed the 24 hour test without any evident moisture penetration to the interior surface of the wall.
Smooth Face Architectural Concrete Masonry

“Smooth Face Architectural Concrete Masonry” is the designation used when a manufacturer produces a regular concrete block in a colored mix design. The only visual difference between Smooth Face Architectural Concrete Masonry and regular block...is the color.

For architects to achieve their design objective, it is important to understand the limitations of Smooth Face Architectural Concrete Masonry. This purpose of this MDS is to provide insight on the production process and field handling which collectively influence the finish and appearance of these block walls.

At the Block Plant

TEXTURE
Smooth Face Architectural Concrete Block is produced using the same molds and production process as a regular block. The texture and aris of Smooth Face Architectural Block are very similar to a regular concrete block. Smooth Face Architectural Block produced from white aggregate tend to have even rougher edges and irregular texture due to the physical characteristics of most white aggregates.

COLOR CONSISTENCY
Concrete products use synthetic iron oxides to achieve color. The colored iron oxides are batched into the concrete mix where they are bound into the cement paste. The pigmented cement paste then acts as a binding agent for the aggregates in the concrete product.

When concrete block are produced, this pigmented concrete mix is compacted in the mold under high pressure. This pressure forces the cement paste to the surface of the block. When you look at a Smooth Face Architectural Block, the color you see is predominately the cement paste. The concentration of cement paste that is forced to the surface varies block per block causing the overall color of the Smooth Face Block to change.

This is not true with Split Face, Ground Face or Sandblasted units. Split Face Block are molded together and split apart after they are removed from the kiln. The concentration of cement paste forms on the opposite side of the finished surface. The cement paste on the surface of Sandblasted and Ground Face Block is either blasted or ground off during the manufacturing process. Both Sandblasted and Ground Face rely on the exposed aggregate matrix of the concrete to achieve their appearance.

To illustrate this point, view the Split, Sandblasted or Ground Face of an Architectural Concrete Masonry wall during construction. Next, look at the opposite side of that very same wall. The surface that removes the cement paste and exposes the aggregate matrix (split, sandblasted or ground) will show only a slight range of color. The surface with the cement paste remaining (smooth face) will show a wide noticeable color range.

Concrete block are cured in large kilns in a block plant. The goal of curing is hydration of the cement and is typically accomplished by elevating the temperature and moisture in the kiln. Temperature and
moisture significantly affect the color of cement paste. Because the temperature and moisture vary within the kiln, the color of the cement paste will vary throughout the block in the kiln. Split Face, Ground Face or Sandblasted, whose finished surface do not rely on the surface cement paste are not affected. Smooth Face Block is significantly affected.

**Handling At The Jobsite**

**CHIPPING**

ASTM C-90: Standard Specification for “Load Bearing Concrete Masonry Units” recognizes that all concrete block projects experience chipping of the units from delivery and handling at the jobsite. “Minor cracks incidental to the usual method of manufacturing or minor chipping resulting from customary methods of handling in shipment and delivery are not grounds for rejection.” The rough texture of Split Face and Sandblasted Block mask minor chips and allow the mason contractor to fill in a minor chip while the mortar joints are tooled. Small chips and rough edges are very difficult and often not possible to blend into the Smooth Face Block due to its lack of texture.

**SCRATCHING**

The concentrated colored cement paste on the surface of a Smooth Face Block will scratch during customary methods of handling and delivery. One block rubbing against another removes the cement paste at the point of impact. This scratch appears as a white chalky line which cannot be removed by washing. Split Face are not as vulnerable to scratching as the aggregates of the exposed concrete matrix mask impact marks. Sandblasted Block are not affected as the entire surface has been etched by sand during the Sandblast process.

**Suggested Design Considerations For Using Architectural Smooth Face Block**

The wide color range and handling blemishes inherent in Smooth Face Architectural Concrete Block Walls can be minimized by limiting this style of block to small areas of the wall at higher elevations. An example is single course bands of Architectural Smooth Face Block within a field of Split Face.

Often Architectural Smooth Face Block are used for budget reasons after Split Face, Sandblasted or Ground Face Block have been eliminated due to their higher cost. One option is to use regular concrete block and stain the will afterward. Deep penetrating masonry stains maintain the natural texture of the block and have excellent durability. These colored stains mask jobsite blemishes and blend in the wide range of color visible in regular concrete block walls.

If you have questions on this Masonry Design Service, or are interested in learning more on deep penetrating masonry stains, please contact our office at 614.252.0955.
We think you’ll agree— in concrete masonry, you won’t find a more solid performer than OBERFIELDS.

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OBERFIELDS has over 50 years of experience serving the concrete products industry. Its five manufacturing plants, three direct sales and distribution yards, and network of dealers and distributors throughout six states provide residential and commercial markets with a full range of concrete products and related materials including: standard concrete masonry; DesignBLOK® split-face architectural masonry; SpecBRIK®, DesignSTONE ornamental precast; lintels; interlocking concrete pavers and patio stones; retaining wall systems; sitescape products; and a full line of concrete masonry building materials. You won’t find a more complete line or more industry expertise in the entire region when it comes to standard or architectural concrete masonry. We have several Certified Construction Document Technologists on staff to provide full support for our products, including solutions to complex design and construction challenges.

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