TALL, SLENDER STRUCTURAL SINGLE WYTHE WALLS FOR COMMERCIAL APPLICATIONS, GYMNASIUMS, INSTITUTIONAL FACILITIES & MULTI-FAMILY

**BLOCKFLASH DETAIL**

- HOT DIPPED, GALVANIZED JOINT REINF. Ø16" O.C.
- BLOCKFLASH FLASHING IN UNGROUTED CORES OVER BOND BEAMS

**BEARING DETAIL**

- #7 REBAR & GROUT (SEE SCHEDULE)
- MESH TO CONTAIN GROUT "DUR-O-STOP" OR EQUIVALENT

**BASE FLASHING DETAIL**

- BLOCKFLASH BASE FLASHING IN UNGROUTED CORES & IN UNGROUTED CORES ABOVE BOND BEAMS
- PROSOCO CUSTOM MASONRY SEALER OR INFINISEAL®DB POST APPLIED WATER REPELLENT SEALER BY W.R. GRACE

**BEARING PLATE DETAIL**

- 7" HIGH BOND BEAM
- 2 UNITS HIGH
- BOTH COURSES FULLY GROUTED
- 1 #5 BAR (d = 5 1/16")
- 1 1/2" RECTANGLE OR V-NOTCH IN UNIT (SEE BELOW)

**TALL, SLENDER STRUCTURAL SINGLE WYTHE WALLS FOR COMMERCIAL APPLICATIONS, GYMNASIUMS, INSTITUTIONAL FACILITIES & MULTI-FAMILY**

**BASE FLASHING PRODUCT OVERVIEW**

**BLOCKFLASH™** is an embeddable flashing device for exterior single wythe wall systems. It collects moisture that infiltrates the wall and flows down the ungrouted vertical cores and diverts it to the exterior with its positive water flow design. **BLOCKFLASH™** is useful at all above-grade flash-ing/weep hole locations including base of wall and above bond beams.

**WALL HEIGHT**

<table>
<thead>
<tr>
<th>WALL HEIGHT</th>
<th>UNIT WIDTH</th>
<th>REINFORCING 20 PSF WIND</th>
<th>REINFORCING 15 PSF WIND</th>
</tr>
</thead>
<tbody>
<tr>
<td>28'-0&quot;</td>
<td>7 5/8&quot;</td>
<td>#7 @ 32&quot; O.C.</td>
<td>#7 @ 48&quot; O.C.</td>
</tr>
<tr>
<td>32'-0&quot;</td>
<td>9 5/8&quot;</td>
<td>#7 @ 32&quot; O.C.</td>
<td>#7 @ 48&quot; O.C.</td>
</tr>
<tr>
<td>38'-0&quot;</td>
<td>11 5/8&quot;</td>
<td>#7 @ 32&quot; O.C.</td>
<td>#7 @ 48&quot; O.C.</td>
</tr>
<tr>
<td>42'-0&quot;</td>
<td>13 5/8&quot;</td>
<td>#7 @ 32&quot; O.C.</td>
<td>#7 @ 48&quot; O.C.</td>
</tr>
</tbody>
</table>

2002 WITH ASD WITH 1/3 STRESS INCREASE
HALF HIGH CMU WITH INTEGRAL RAINBLOC AND MORTAR ADMIXTURE BY ACM CHEMISTRIES OR DRY-BLOCK INTEGRAL WATER REPELLENT & MORTAR ADMIXTURE BY W.R. GRACE

Advertorial material provided by the Illinois Concrete Products Association - 847-297-6704
EXTERIOR BEARING WALL DETAIL - PRECAST HOLLOW CORE FLOORING

- BLOCKFLASH FLASHING BY MORTARNET
- 2" HIGH SOAP UNIT
- 2" CONCRETE TOPPING
- 10" PRECAST PLANKS
- 3 5/8" UNITS
- 1/2" THERMAX INSULATION
- 7 5/8" X 3 5/8" X 15 5/8" HALF HIGH ARCHITECTURAL CMU CONCRETE BRICK
- PROSOCO CUSTOM MASONRY SEALER

BEARING PAD
3" MIN. BEARING
1 1/2" DWC
1/2" DRYWALL

EXTERIOR NON-BEARING WALL DETAIL - PRECAST HOLLOW CORE FLOORING

WITH 8" PRECAST HOLLOW CORE FLOORING

- BLOCKFLASH FLASHING BY MORTARNET
- 2" HIGH SOAP UNIT
- 2" CONCRETE TOPPING
- 8" PRECAST PLANKS
- 3 5/8" UNITS
- 1/2" THERMAX INSULATION
- 10" DEPTH - 8" HIGH BOND BEAM
  2 COURSES HIGH GROUTED SOLID

MINIMUM 3" BEARING
1 1/2" DWC
FOR ELEC. ROUGH IN
1/2" DRYWALL
2 1/2" THERMAX WITH JOINTS TAPED
PROSOCO CUSTOM MASONRY SEALER

EXTERIOR BEARING WALL DETAIL - PRECAST HOLLOW CORE FLOORING

TOTAL WALL R-VALUE
20.59

Advertorial material provided by the Illinois Concrete Products Association - 847-297-6704
INTERIOR BEARING WALL DETAILS - WOOD TRUSS FLOOR SYSTEM

12" HALF HIGH UNIT
10" HALF HIGH UNIT
8" HALF HIGH UNIT
6" CMU
1 1/2" DWC (FOR ELECTRICAL)
1/2" DRYWALL

EXTERIOR BEARING WALL DETAIL - WOOD TRUSS FLOOR SYSTEM

14" HALF HIGH UNIT
12" HALF HIGH UNIT
10" HALF HIGH UNIT
8" CMU
1 1/2" DWC (FOR ELECTRICAL)
1/2" DRYWALL

EXTERIOR BEARING WALL DETAIL - NON BEARING SECTION

8" HALF HIGH UNIT
6" CMU
1 1/2" DWC (FOR ELECTRICAL)
1/2" DRYWALL

INTERIOR BEARING WALL DETAILS - WOOD TRUSS FLOOR SYSTEM

8" HALF HIGH UNIT
4" UNIT
COTTON SASH WEEP HOLES @ 32" O.C.
THROUGH WALL FLASHING WITH STAINLESS STEEL DRIP EDGE
10" UNITS GROUTED
MESH TO CONTAIN GROUT
#5 REBAR @ 48" O.C.
PROSOCO CUSTOM MASONRY SEALER

EXTERIOR BEARING WALL DETAIL - WOOD TRUSS FLOOR SYSTEM

8" HALF HIGH UNIT
COTTON SASH WEEP HOLES @ 32" O.C.
THROUGH WALL FLASHING WITH STAINLESS STEEL DRIP EDGE
STRAP ANCHOR @ 2' O.C. (FOR LATERAL SUPPORT)
UNITS GROUTED TO FORM BOND BEAM
MESH TO CONTAIN GROUT
#5 REBAR @ 48" O.C.
PROSOCO CUSTOM MASONRY SEALER

Advertorial material provided by the Illinois Concrete Products Association  -  847-297-6704
DISCLAIMER NOTICE

This guide contains technical information on masonry wall systems. It provides some of the basic information required to properly design and detail these systems. This booklet does not cover all designs or conditions. The information presented illustrates only the principles that are involved. The information contained in this guide is based on the available data and experience of the technical staff of the Masonry Advisory Council. This information should be recognized as suggestions which, if followed with good judgement, should produce positive results. Final decisions on the use of information, details and materials as discussed in this booklet are not within the purview of the Masonry Advisory Council, and must rest with the project designer, owner, or both.