GENERAL NOTES:
2. ANCHOR INSTALLATION SHALL BE MADE IN ACCORDANCE WITH MANUFACTURER’S PUBLISHED INSTALLATION INSTRUCTIONS AND THIS NOTICE OF ACCEPTANCE.
3. CONCRETE SHALL CONFORM TO ACI 301 SPECIFICATIONS, WITH STRENGTH INCREMENTS AS SPECIFIED IN GREEN, HOLLOW AND MIXED, CLASS C, D, AND E. FOR FURTHER SPECIFICATIONS, SEE MANUFACTURER’S SPECIFICATIONS.
4. DEWALT ULTRACON IS A CORROSION RESISTANT MASONRY AND CONCRETE FASTENER FINISHED WITH STAINLESS COATING.
5. HEAD MARKINGS: DEWALT ULTRACON MASONRY FASTENERS ARE IDENTIFIED WITH EITHER THE DEWALT LOGO, OR FOUR DOTS IN THE CASE OF THE PHILIPS PAN HEAD, TRIMFIT FASTENERS HAVE THE DEWALT LOGO ALONG WITH 2 DOTS (1/8" DIAMETER), 3/8" DIAMETER HEX WASHER HEAD ULTRACON FASTENERS HAVE DEWALT LOGO AND "S" INDICATING THE 5/16" DIAMETER.
6. ALLOWABLE LOAD SHOWN ULTIMATE LOAD DIVIDED BY 4.0 FOR SOLID NON-CRACKED CONCRETE SUBSTRATES, 5.0 FOR HOLLOW BLOCK & BLOCK FILLED BLOCK SUBSTRATES. NO ALLOWABLE STRESS INCREASE HAS BEEN USED IN PREPARATION OF THIS DOCUMENT.
7. CONCRETE YIELD STRENGTH Fy = 155ksi, ANCHOR ULTIMATE STRENGTH Fu = 337ksi.
8. NON-APPROVED CONCRETE OR MASONRY MIXES OR SPACING TO THOSE SHOWN IN DESIGN TABLES HEREIN ARE NOT ACCEPTABLE.
9. ALLOWABLE LOAD CAPACITIES TO SUBSTRATES THAT ARE NOT SHOWN IN THE DESIGN TABLES LISTED HEREIN ARE OUTSIDE THE SCOPE OF THIS CERTIFICATION AND SHALL BE DETERMINED BY A LICENSED PROFESSIONAL ENGINEER.
10. ANCHOR INSTALLATION SHALL BE MADE IN ACCORDANCE WITH THE MANUFACTURER’S PUBLISHED INSTALLATION INSTRUCTIONS AND THIS PRODUCT APPROVAL.
11. DRILL HOLES AT LEAST 1/4" DEEPER THAN THE ULTRACON EMBEDMENT.
12. DRILL HOLES SHALL BE CUT TO DETERMINE APPROPRIATE DRILL BIT DIAMETER CORRESPONDING TO FASTENER DIAMETER.
13. CLEAN HOLES OF DIRT AND DUST BEFORE INSTALLATION OF ANCHOR.
14. ANCHORS SHALL NOT BE INSTALLED IF THE CONCRETE HAS BEEN DAMAGED IN ITS DESIGN STRENGTH.
15. ANCHORS SHALL NOT BE INSTALLED IN CRACKED CONCRETE SUBSTRATES, AS DEFINED IN ACI 355.2.
16. ANCHOR VALUES LISTED HEREIN ARE DETERMINED THROUGH TESTING REPORT DATA AND CHECKED FOR CONSISTENCY WITH EACH TEST PERFORMED.
17. REFER TO THE FOLLOWING TEST REPORTS:
   #HETT-03-1173 (12/12/2003)
   #HETT-03-3209 (09/30/2003)
   #HETT-03-3200 (09/20/2003)
   #HETT-08-4414 (08/20/2008)
   #HETT-08-4416 (08/20/2008)
   #HETT-08-4423 (03/08/2011)
   #HETT-08-4434 (08/20/2008)
   #HETT-08-4104 (03/07/11)

5/16" DEWALT ULTRACON
CONCRETE & MASONRY ANCHORS

TYPICAL SECTION

1/0" = 1'-0"

SECTION

HEAD STYLES

N.T.S.

HEX WASHER HEAD

HEX FLANGE HEAD

TRIMFIT® FLAT HEAD

PHILLIPS FLAT HEAD

PHILLIPS FLAT HEAD

LARGE DIAMETER PHILLIPS FLAT HEAD

1/4" MAX SHIM

0.25" MIN.

0.250" REF.

0.246" REF.

0.246" REF.

0.246" REF.

0.210" REF.

0.210" REF.

0.210" REF.

0.210" REF.

0.330/320" FULL THREAD O.D.

0.330/320" FULL THREAD O.D.

0.250" REF. LOW THREAD DIAMETER

0.250" REF. LOW THREAD DIAMETER

0.330/320" FULL THREAD O.D.

0.330/320" FULL THREAD O.D.

5/16" HEX WASHER HEAD (HWH)

5/16" HEX FLANGE HEAD (HFF)

5/16" PHILLIPS FLAT HEAD (PFH & TRIMFIT (THF))

5/16" LARGE DIAMETER FLAT HEAD (LDF)

SIDE VIEW

SIDE VIEW

SIDE VIEW

SIDE VIEW

SIDE VIEW

SIDE VIEW
5/16" Ø ULTRACON
ALLOWABLE LOAD CAPACITIES:

<table>
<thead>
<tr>
<th>EDGE DISTANCE</th>
<th>SPACING</th>
<th>NUMBER OF DIA-METERS</th>
<th>EMBEDMENT**</th>
<th>TENSION (LB)</th>
<th>SHEAR (LB)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/16&quot; P.S.I. CONCRETE</td>
<td>1-1/4&quot;</td>
<td>1-3/4&quot;</td>
<td>60</td>
<td>2&quot;</td>
<td>205</td>
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<td>130</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>5&quot;</td>
<td>1&quot;</td>
<td>180</td>
</tr>
<tr>
<td></td>
<td>2-3/16&quot;</td>
<td>1-3/4&quot;</td>
<td>166</td>
<td>1&quot;</td>
<td>205</td>
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<td>3-3/4&quot;</td>
<td>1&quot;</td>
<td>600</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1-1/4&quot;</td>
<td>2&quot;</td>
<td>200</td>
</tr>
<tr>
<td></td>
<td>3-1/2&quot;</td>
<td>2&quot;</td>
<td>130</td>
<td>2&quot;</td>
<td>455</td>
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<td>3-3/4&quot;</td>
<td>1&quot;</td>
<td>210</td>
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<td>5&quot;</td>
<td>2&quot;</td>
<td>650</td>
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<td>1-1/2&quot;</td>
<td>2&quot;</td>
<td>835</td>
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<tr>
<td>GROUT FILLED BLOCK</td>
<td>2-1/2&quot;</td>
<td>2-1/4&quot;</td>
<td>164</td>
<td>230</td>
<td>370</td>
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<td>2-1/2&quot;</td>
<td>280</td>
<td>370</td>
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<td>5&quot;</td>
<td>200</td>
<td>140</td>
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<td>175</td>
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<td>3-3/4&quot;</td>
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<td>140</td>
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<td></td>
<td></td>
<td>6&quot;</td>
<td>200</td>
<td>225</td>
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</table>

HOLLOW BLOCK

NOTE:
*ULTRACON ALLOWABLE LOAD CAPACITIES LISTED HEREIN ARE NOT VALID FOR CRACKED CONCRETE SUBSTRATES.
**EMBEDMENT VALUE LISTED HEREIN CONSIDERS FULL EMBEDMENT TO CONCRETE. GROUT FILLED BLOCK OR HOLLOW BLOCK, EMBEDMENT DEPTH DOES NOT INCLUDE THE THICKNESS OF ANY WOOD BUCKS.

ULTRACON HEAD
DIMENSIONS:

<table>
<thead>
<tr>
<th>HEAD STYLE</th>
<th>HEAD DIAMETER</th>
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</thead>
<tbody>
<tr>
<td>5/16&quot; PPH</td>
<td>0.543&quot;</td>
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<tr>
<td>5/16&quot; LDPM</td>
<td>0.695&quot;</td>
</tr>
<tr>
<td>5/16&quot; TRANSMIT</td>
<td>0.414&quot;</td>
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</table>

DRILL BIT SCHEDULE:

<table>
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<tr>
<th>SCREW-ANCHOR DIAMETER</th>
<th>DRILL BIT</th>
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</thead>
<tbody>
<tr>
<td>5/16&quot;</td>
<td>3/8&quot; DIAMETER DEWALT ULTRACON BIT</td>
</tr>
</tbody>
</table>

1. INSTALLATION SHALL BE MADE IN ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS AND THIS MIAMI-DADE COUNTY NOTICE OF ACCEPTANCE.
2. DRILL HOLES AT LEAST 1/2" DEEPER THAN ULTRACON EMBEDMENT.
3. CLEAN HOLES OR GROOVES AND DUST BEFORE INSTALLATION OF ANCHOR.
4. ANCHORS SHALL NOT BE INSTALLED BEFORE THE CONCRETE HAS DEVELOPED ITS DESIGN STRENGTH.
5. ANCHORS SHALL NOT BE INSTALLED IN CRACKED CONCRETE SUBSTRATES, AS DEFINED IN ACI 355.2.

HEX WASHER HEAD (HW) DIMENSIONS:

<table>
<thead>
<tr>
<th>HEAD STYLE</th>
<th>ACROSS FLAT</th>
<th>WASHER DIAMETER</th>
</tr>
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<tbody>
<tr>
<td>5/16&quot; HWH</td>
<td>5/16&quot;</td>
<td>0.415&quot;</td>
</tr>
<tr>
<td>5/16&quot; HWF</td>
<td>5/16&quot;</td>
<td>0.543&quot;</td>
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