ULTRABlack
DOUBLE WALL STOVE PIPE
ULTRABlack Technical Information

Certification
ULTRABlack has been tested and listed by Intertek Testing Services.

Applications
ULTRABlack is designed to be used as a connector between a freestanding oil, wood or coal burning stove and a masonry or metal chimney. There are four primary advantages to ULTRABlack over single wall connector pipes:

▪ It offers reduced clearance to combustible materials.
▪ It is designed to last the lifetime of the stove and/or chimney system.
▪ It offers reduced creosote formation.
▪ It is certified for use with mobile home stoves.

Allowable Flue Gas Temperatures
Max Continuous 650°C (1200°F)
Brief Forced Firing 925°C (1700°F)
Tested To 1150°C (2100°F)

Clearance to Combustible Materials
ULTRABlack is certified for 6" clearance with the following exception. When ULTRABlack is used as the connector on a mobile home certified stove the clearance is determined by the installation instructions for the specific stove model being installed.

Construction
Flue: .016" stainless steel.
Casing: .019" satin coat steel. Satin coat is specifically designed to be painted.
Seam: Interior and exterior seams are seam welded.
Wall thickness: Approximately 3/8"
Paint: Forrest “Stove Bright” flat black

ULTRABlack Engineering and Design Considerations

Maximum allowable overall height:
There is no maximum requirement however, as a general guideline we recommend that the length of ULTRABlack not exceed 20 feet.

ULTRABlack assembles like a regular single wall stove pipe - no complicated, unsightly twist lock connectors or spot welds. There is no cutting required and all the screw holes are predrilled. Just put one piece on top of the other and screw together using the black oxide screws provided. Easily fits most stoves, including cast iron stoves and stoves with oval collars. ULTRABlack is approved for mobile home installation on most major stove brands, when installed with EXCEL insulated chimney. For mobile home installations follow the stove manufacturer’s installation instructions.

EXCEL ULTRABlack
Fully Shielded Stove pipe with smooth, clean lines.
▪ Requires just 6" clearance to combustibles in all diameters - even when installed in a corner, or parallel with a ceiling*.
▪ Has a smooth, clean appearance to compliment any stove installation.
▪ Maximizes flue gas temperature, ensuring good draft.
▪ Minimizes creosote buildup.
* Some stoves may require greater clearances.
ULTRABlack Product Descriptions

Lengths (UB5F, UB1F, UB18F, UB2F & UB3F)

Lengths are available in 5", 12", 18", 24" and 36".

Adjustable Lengths combine a 36" length and a 36" slip length in one box. The UBAF fits all brands of insulated chimney and most brands of wood burning stoves without a stove or chimney adapter. A UBTC trim collar is included with the UBAF.

Slip Lengths slide over a regular straight length allowing you to adjust the overall length of a straight run without cutting. The minimum adjustment can be reached only if the length used below the slip length is long enough to accept it.

### Length Dimensions (6-7-8")

<table>
<thead>
<tr>
<th>Code</th>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>6-7-8 UB5F</td>
<td>5</td>
<td>4</td>
</tr>
<tr>
<td>6-7-8 UB1F</td>
<td>12</td>
<td>11</td>
</tr>
<tr>
<td>6-7-8 UB18F</td>
<td>18</td>
<td>17</td>
</tr>
<tr>
<td>6-7-8 UB2F</td>
<td>24</td>
<td>23</td>
</tr>
<tr>
<td>6-7-8 UB3F</td>
<td>36</td>
<td>35</td>
</tr>
</tbody>
</table>

### Slip Length Dimensions

<table>
<thead>
<tr>
<th>Code</th>
<th>A.MIN</th>
<th>A.MAX</th>
<th>B.MIN</th>
<th>B.MAX</th>
</tr>
</thead>
<tbody>
<tr>
<td>UB6SF</td>
<td>2</td>
<td>6</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>UB12SF</td>
<td>2</td>
<td>12</td>
<td>1</td>
<td>11</td>
</tr>
<tr>
<td>UB18SF</td>
<td>2</td>
<td>18</td>
<td>1</td>
<td>17</td>
</tr>
</tbody>
</table>

### Adjustable Length Dimensions

<table>
<thead>
<tr>
<th>Code</th>
<th>A.MIN</th>
<th>A.MAX</th>
<th>B.MIN</th>
<th>B.MAX</th>
</tr>
</thead>
<tbody>
<tr>
<td>6UBAF</td>
<td>40</td>
<td>68</td>
<td>39</td>
<td>67</td>
</tr>
<tr>
<td>7UBAF</td>
<td>40</td>
<td>68</td>
<td>39</td>
<td>67</td>
</tr>
<tr>
<td>8UBAF</td>
<td>40</td>
<td>68</td>
<td>39</td>
<td>67</td>
</tr>
</tbody>
</table>

### Tees (UBT)

Combines a 90° transition with a clean out. Includes a tee cap.

<table>
<thead>
<tr>
<th>Code</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>6UBT</td>
<td>12</td>
<td>11</td>
<td>6</td>
<td>5 7/8</td>
</tr>
<tr>
<td>7UBT</td>
<td>12</td>
<td>11</td>
<td>6</td>
<td>6 3/8</td>
</tr>
<tr>
<td>8UBT</td>
<td>12</td>
<td>11</td>
<td>6</td>
<td>6 7/8</td>
</tr>
</tbody>
</table>

### Elbows (UB30, UB45 & UB90)

Are available in 30°, 45° and 90°.

<table>
<thead>
<tr>
<th>Code</th>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>6UB30</td>
<td>2 5/16</td>
<td>2 9/16</td>
</tr>
<tr>
<td>7UB30</td>
<td>2 7/16</td>
<td>2 11/16</td>
</tr>
<tr>
<td>8UB30</td>
<td>2 9/16</td>
<td>2 13/16</td>
</tr>
<tr>
<td>6UB45</td>
<td>2 3/4</td>
<td>3</td>
</tr>
<tr>
<td>7UB45</td>
<td>2 15/16</td>
<td>3 3/16</td>
</tr>
<tr>
<td>8UB45</td>
<td>3 1/8</td>
<td>3 3/8</td>
</tr>
<tr>
<td>6UB90</td>
<td>5 9/16</td>
<td>4 1/2</td>
</tr>
<tr>
<td>7UB90</td>
<td>6 1/16</td>
<td>5</td>
</tr>
<tr>
<td>8UB90</td>
<td>6 9/16</td>
<td>5 1/2</td>
</tr>
</tbody>
</table>
Reducers (UBR)

Designed to reduce the diameter of a system to accommodate a range of flue sizes, appliances and installations. Note: Decreasing chimney diameter even 1” can have a serious negative impact of chimney performance. Be careful to use these components only when appropriate.

<table>
<thead>
<tr>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Code</td>
</tr>
<tr>
<td>UBR76</td>
</tr>
<tr>
<td>UBR86</td>
</tr>
<tr>
<td>UBR87</td>
</tr>
</tbody>
</table>

Oval to Round Adapter (UBORF)

Adapters are designed to connect ULTRABlack to stoves with oval flue collars - such as a Vermont Castings Defiant Encore. Available in 8” only.

<table>
<thead>
<tr>
<th>Dimensions (8” only)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Code</td>
</tr>
<tr>
<td>8UBORF</td>
</tr>
</tbody>
</table>

Stove Adapters (UBSE)

Primarily used with cast iron flue collars. Connect ULTRABlack to stoves with flue collars that do not project above the top of the stove. It can also be used to connect to stoves with irregular shaped or sized flue collars.

<table>
<thead>
<tr>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Code</td>
</tr>
<tr>
<td>6UBSE</td>
</tr>
<tr>
<td>7UBSE</td>
</tr>
<tr>
<td>8UBSE</td>
</tr>
</tbody>
</table>

Barometric Damper Adapter (SWBA)

This adapter simplifies the connection between a barometric damper and an EXCELPrime or ULTRABlack tee.

<table>
<thead>
<tr>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Code</td>
</tr>
<tr>
<td>6SWBA</td>
</tr>
<tr>
<td>7SWBA</td>
</tr>
<tr>
<td>8SWBA</td>
</tr>
</tbody>
</table>
Masonry Adapter (UBM)

This part acts as a thimble sleeve to secure ULTRABlack to a masonry chimney that does not have a thimble or has an oversize one. Note: ULTRABlack is not certified to pass through a combustible wall. An EXCELiner Insulated Thimble (ITH) must be used where there is a combustible wall between the stove and the masonry chimney. Flat trim collar included.

<table>
<thead>
<tr>
<th>Code</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>6UBM</td>
<td>11 7/8</td>
<td>10 7/8</td>
<td>12 6 1/8</td>
<td></td>
</tr>
<tr>
<td>7UBM</td>
<td>11 7/8</td>
<td>10 7/8</td>
<td>13 7 1/8</td>
<td></td>
</tr>
<tr>
<td>8UBM</td>
<td>11 7/8</td>
<td>10 7/8</td>
<td>14 8 1/8</td>
<td></td>
</tr>
</tbody>
</table>

Masonry Thimble Adapter (UBMA)

Connect ULTRABlack to a masonry chimney with an existing 8” thimble. Note: ULTRABlack is not certified to pass through a combustible wall. An EXCELiner Insulated Thimble (ITH) must be used where there is a combustible wall between the stove and the masonry chimney.

<table>
<thead>
<tr>
<th>Code</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>6UBMA</td>
<td>6 7/8</td>
<td>11 1/8</td>
<td>7 1/2</td>
<td>4 3/4</td>
</tr>
</tbody>
</table>

Damper Section (UBD)

Butterfly type in line dampers. They are recommended by some stove manufacturers to help control draft.

<table>
<thead>
<tr>
<th>Code</th>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>UBD</td>
<td>5</td>
<td>4</td>
</tr>
</tbody>
</table>

Trim Collars (UBTC)

Covers the crimped (top) end of ULTRABlack where it connects to the insulated chimney. A UBTC is included with every UBAF so they rarely need to be purchased separately.

<table>
<thead>
<tr>
<th>Code</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>6UBTC</td>
<td>22 x 2</td>
</tr>
<tr>
<td>7UBTC</td>
<td>25 3/8 x 2</td>
</tr>
<tr>
<td>8UBTC</td>
<td>28 1/2 x 2</td>
</tr>
</tbody>
</table>

Conical Trim Ring (UBTR)

Adjustable to fit the exterior of regular ULTRABlack lengths and slip lengths. There are also slots to fit fixed and slip EXCELDirect lengths as well as single wall black pipe. Available in 6” or 8”.

<table>
<thead>
<tr>
<th>Code</th>
<th>A</th>
</tr>
</thead>
<tbody>
<tr>
<td>UBTR</td>
<td>3”</td>
</tr>
</tbody>
</table>
### UB OFFSET TABLE
- **45° Elbows**: Use this table if you are not installing a slip length (UBSF) between the elbows.

#### 6 INCH Ø

<table>
<thead>
<tr>
<th>Length Between Elbows</th>
<th>Rise</th>
<th>Offset</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 Length</td>
<td>8 1/4</td>
<td>3 1/2</td>
</tr>
<tr>
<td>5&quot; Length</td>
<td>11</td>
<td>6 1/4</td>
</tr>
<tr>
<td>12&quot; Length</td>
<td>16</td>
<td>11 1/4</td>
</tr>
<tr>
<td>18&quot; Length</td>
<td>20 1/4</td>
<td>15 1/2</td>
</tr>
<tr>
<td>24&quot; Length</td>
<td>24 1/2</td>
<td>19 3/4</td>
</tr>
<tr>
<td>36&quot; Length</td>
<td>33</td>
<td>28 1/4</td>
</tr>
</tbody>
</table>

#### 7 INCH Ø

<table>
<thead>
<tr>
<th>Length Between Elbows</th>
<th>Rise</th>
<th>Offset</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 Length</td>
<td>9</td>
<td>3 3/4</td>
</tr>
<tr>
<td>5&quot; Length</td>
<td>11 3/4</td>
<td>6 1/2</td>
</tr>
<tr>
<td>12&quot; Length</td>
<td>16 3/4</td>
<td>11 1/2</td>
</tr>
<tr>
<td>18&quot; Length</td>
<td>21</td>
<td>15 3/4</td>
</tr>
<tr>
<td>24&quot; Length</td>
<td>25 1/4</td>
<td>20</td>
</tr>
<tr>
<td>36&quot; Length</td>
<td>33 3/4</td>
<td>28 1/2</td>
</tr>
</tbody>
</table>

#### 8 INCH Ø

<table>
<thead>
<tr>
<th>Length Between Elbows</th>
<th>Rise</th>
<th>Offset</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 Length</td>
<td>9 3/4</td>
<td>4</td>
</tr>
<tr>
<td>5&quot; Length</td>
<td>12 1/2</td>
<td>7</td>
</tr>
<tr>
<td>12&quot; Length</td>
<td>17 1/2</td>
<td>11 3/4</td>
</tr>
<tr>
<td>18&quot; Length</td>
<td>21 3/4</td>
<td>16</td>
</tr>
<tr>
<td>24&quot; Length</td>
<td>26</td>
<td>20 1/4</td>
</tr>
<tr>
<td>36&quot; Length</td>
<td>34 1/2</td>
<td>28 3/4</td>
</tr>
</tbody>
</table>

**All measurements are in inches**

### UB OFFSET TABLE
- **45° Elbows**: Use this table if you are installing an adjustable length between the elbows.

#### 6 INCH Ø

<table>
<thead>
<tr>
<th>Length Between Elbows</th>
<th>Rise</th>
<th>Offset</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 Length + UB6SF</td>
<td>9 1/4</td>
<td>4 1/2</td>
</tr>
<tr>
<td>5&quot; Length + UB6SF</td>
<td>12 - 14</td>
<td>7 1/4</td>
</tr>
<tr>
<td>12&quot; Length + UB12SF</td>
<td>16 - 18</td>
<td>11 1/4</td>
</tr>
<tr>
<td>18&quot; Length + UB12SF</td>
<td>21 - 23</td>
<td>12 1/4</td>
</tr>
<tr>
<td>24&quot; Length + UB18SF</td>
<td>25 - 27</td>
<td>16 1/2</td>
</tr>
<tr>
<td>36&quot; Length + UB18SF</td>
<td>33 - 35</td>
<td>20 3/4</td>
</tr>
</tbody>
</table>

#### 7 INCH Ø

<table>
<thead>
<tr>
<th>Length Between Elbows</th>
<th>Rise</th>
<th>Offset</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 Length + UB6SF</td>
<td>9 3/4</td>
<td>4 3/4</td>
</tr>
<tr>
<td>5&quot; Length + UB6SF</td>
<td>12 3/4</td>
<td>7 1/2</td>
</tr>
<tr>
<td>12&quot; Length + UB12SF</td>
<td>16 3/4</td>
<td>11 3/4</td>
</tr>
<tr>
<td>18&quot; Length + UB12SF</td>
<td>21 - 23</td>
<td>12 1/4</td>
</tr>
<tr>
<td>24&quot; Length + UB18SF</td>
<td>26 1/4</td>
<td>21 - 23</td>
</tr>
<tr>
<td>36&quot; Length + UB18SF</td>
<td>36 1/4</td>
<td>32 - 21</td>
</tr>
</tbody>
</table>

#### 8 INCH Ø

<table>
<thead>
<tr>
<th>Length Between Elbows</th>
<th>Rise</th>
<th>Offset</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 Length + UB6SF</td>
<td>10 - 11</td>
<td>4 3/4</td>
</tr>
<tr>
<td>5&quot; Length + UB6SF</td>
<td>13 3/4</td>
<td>7 3/4</td>
</tr>
<tr>
<td>12&quot; Length + UB12SF</td>
<td>17 1/2</td>
<td>11 3/4</td>
</tr>
<tr>
<td>18&quot; Length + UB12SF</td>
<td>22 - 23</td>
<td>17 - 23</td>
</tr>
<tr>
<td>24&quot; Length + UB18SF</td>
<td>26 3/4</td>
<td>21 1/4</td>
</tr>
<tr>
<td>36&quot; Length + UB18SF</td>
<td>38 3/4</td>
<td>32 1/4</td>
</tr>
</tbody>
</table>

**All measurements are in inches**
### 30° Elbows

**UB Offset Table**: Use this table when a slip length (UBSF) is not installed between the elbows.

<table>
<thead>
<tr>
<th>Length Between Offsets</th>
<th>30° Elbows</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>6 Inch Ø</strong></td>
<td></td>
</tr>
<tr>
<td>No Length</td>
<td>7 1/4</td>
</tr>
<tr>
<td>5&quot; Length</td>
<td>10 1/2</td>
</tr>
<tr>
<td>12&quot; Length</td>
<td>16 3/4</td>
</tr>
<tr>
<td>18&quot; Length</td>
<td>23 1/4</td>
</tr>
<tr>
<td>24&quot; Length</td>
<td>27</td>
</tr>
<tr>
<td>36&quot; Length</td>
<td>37 1/2</td>
</tr>
<tr>
<td><strong>7 Inch Ø</strong></td>
<td></td>
</tr>
<tr>
<td>No Length</td>
<td>7 3/4</td>
</tr>
<tr>
<td>5&quot; Length</td>
<td>11</td>
</tr>
<tr>
<td>12&quot; Length</td>
<td>17 1/4</td>
</tr>
<tr>
<td>18&quot; Length</td>
<td>22 1/2</td>
</tr>
<tr>
<td>24&quot; Length</td>
<td>27 1/2</td>
</tr>
<tr>
<td>36&quot; Length</td>
<td>38</td>
</tr>
<tr>
<td><strong>8 Inch Ø</strong></td>
<td></td>
</tr>
<tr>
<td>No Length</td>
<td>8 1/4</td>
</tr>
<tr>
<td>5&quot; Length</td>
<td>11 3/4</td>
</tr>
<tr>
<td>12&quot; Length</td>
<td>17 3/4</td>
</tr>
<tr>
<td>18&quot; Length</td>
<td>23</td>
</tr>
<tr>
<td>24&quot; Length</td>
<td>28 1/4</td>
</tr>
<tr>
<td>36&quot; Length</td>
<td>38 1/2</td>
</tr>
</tbody>
</table>

All measurements are in inches

### 30° Elbows

**UB Offset Table**: Use this table if you are installing an adjustable length between the elbows.

<table>
<thead>
<tr>
<th>Length Between Offsets</th>
<th>30° Elbows</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>6 Inch Ø</strong></td>
<td></td>
</tr>
<tr>
<td>No Length + UB6SF</td>
<td>8 1/4 - 10 1/2</td>
</tr>
<tr>
<td>5&quot; Length + UB6SF</td>
<td>11 3/4 - 14</td>
</tr>
<tr>
<td>5&quot; Length + UB12SF</td>
<td>16 3/4 - 19 1/4</td>
</tr>
<tr>
<td>12&quot; Length + UB12SF</td>
<td>17 3/4 - 25 1/4</td>
</tr>
<tr>
<td>18&quot; Length + UB12SF</td>
<td>23 - 30 1/2</td>
</tr>
<tr>
<td>24&quot; Length + UB18SF</td>
<td>28 1/4 - 41</td>
</tr>
<tr>
<td>UBAF</td>
<td>41 3/4 - 66</td>
</tr>
<tr>
<td>18&quot; Length + UBAF</td>
<td>55 1/2 - 79 3/4</td>
</tr>
<tr>
<td>36&quot; + 36&quot; + UB18SF</td>
<td>78 1/4 - 91 1/4</td>
</tr>
<tr>
<td>36&quot; + 36&quot; + 24&quot; + UB18SF</td>
<td>88 3/4 - 101 1/2</td>
</tr>
<tr>
<td>36&quot; + 36&quot; + 36&quot; + UB18SF</td>
<td>99 1/4 - 112</td>
</tr>
<tr>
<td><strong>7 Inch Ø</strong></td>
<td></td>
</tr>
<tr>
<td>No Length + UB8SF</td>
<td>8 3/4 - 11</td>
</tr>
<tr>
<td>5&quot; Length + UB8SF</td>
<td>12 1/4 - 14 1/2</td>
</tr>
<tr>
<td>5&quot; Length + UB12SF</td>
<td>17 1/4 - 19 3/4</td>
</tr>
<tr>
<td>12&quot; Length + UB12SF</td>
<td>18 1/4 - 25 3/4</td>
</tr>
<tr>
<td>18&quot; Length + UB12SF</td>
<td>23 1/2 - 31</td>
</tr>
<tr>
<td>24&quot; Length + UB18SF</td>
<td>28 3/4 - 41 1/2</td>
</tr>
<tr>
<td>UBAF</td>
<td>42 1/4 - 66 1/2</td>
</tr>
<tr>
<td>18&quot; Length + UBAF</td>
<td>56 – 80 1/4</td>
</tr>
<tr>
<td>36&quot; + 36&quot; + 12&quot; + UB18SF</td>
<td>78 3/4 - 91 3/4</td>
</tr>
<tr>
<td>36&quot; + 36&quot; + 12&quot; + UB18SF</td>
<td>89 1/4 - 102</td>
</tr>
<tr>
<td>36&quot; + 36&quot; + 12&quot; + UB18SF</td>
<td>99 3/4 - 112 1/2</td>
</tr>
<tr>
<td><strong>8 Inch Ø</strong></td>
<td></td>
</tr>
<tr>
<td>No Length + UB8SF</td>
<td>9 1/4 - 11 3/4</td>
</tr>
<tr>
<td>5&quot; Length + UB8SF</td>
<td>12 3/4 - 15 1/4</td>
</tr>
<tr>
<td>5&quot; Length + UB12SF</td>
<td>17 3/4 - 20 1/4</td>
</tr>
<tr>
<td>12&quot; Length + UB12SF</td>
<td>18 3/4 - 26 1/2</td>
</tr>
<tr>
<td>18&quot; Length + UB12SF</td>
<td>24 - 31 3/4</td>
</tr>
<tr>
<td>24&quot; Length + UB18SF</td>
<td>29 1/4 - 42</td>
</tr>
<tr>
<td>UBAF</td>
<td>43 – 67 1/4</td>
</tr>
<tr>
<td>18&quot; Length + UBAF</td>
<td>56 3/4 - 81</td>
</tr>
<tr>
<td>36&quot; + 36&quot; + 12&quot; + UB18SF</td>
<td>79 1/2 - 92 1/4</td>
</tr>
<tr>
<td>36&quot; + 36&quot; + 12&quot; + UB18SF</td>
<td>89 3/4 - 102 3/4</td>
</tr>
<tr>
<td>36&quot; + 36&quot; + 12&quot; + UB18SF</td>
<td>100 1/4 - 113</td>
</tr>
</tbody>
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All measurements are in inches.