

## ACCOMPANIMENT DOCUMENT / DECLARATION OF CONFORMITY

Manufacturer: *Valdocal*

**EN 12326-1:2004**

Comercial document number: *05002* Issue date: *13/11/2007*

Comercial document issued by: *Cupa Pizarras S.A.*

Quarry or mine location: *Valdocal.Pusmazán. León ( España )*

This document establishes conformity of the product described above and becomes uncomplete without the explanation of the essay results and the requests of the EN 12326-1:2004 Norm. The essays to which it refers and the criteria are included in the EN 12326-1:2004 and :2-2000 Norm.

Sampling date: <i>29/05/2007</i>	Essay date: <i>13/08/2007</i>			
Product description and comercial name:	<i>Slate for roofing and exterior cladding.Cupa 5</i>	<b>Conformity</b>		
<b>1 Dimensional tolerances</b>				
<b>Sizes</b>	<i>46x30 - 40x25 - 40x20 - 35x25 - 32x22 - 30x20 - 27x18 - 30x30 - 30x18 - 35x22 - 40x22 - 35x20</i>			
Deviation of the declared lenght	<i>Complies &lt; ±5mms</i>			
Deviation of the declared width	<i>Complies &lt; ±5mms</i>			
Deviation of the orthogonality	<i>Complies &lt; ±1%</i>			
Deviation of the edges linearity	<i>Complies &lt; 5mms &amp; &lt;=1% lenght</i>			
Type of slate according to the flat surface	<b>Very smooth</b>	<b>Smooth</b>	<b>Normal</b>	<b>Texturised</b>
Deviation of the planicidad			<i>&lt;1,5%</i>	
<b>2 Thickness</b>				
Slate type for the calculation of the packaged slate thickness	<b>Very smooth</b>	<b>Smooth</b>	<b>Normal</b>	<b>Texturised</b>
Nominal thickness and variation			<i>5,5mm±25%</i>	
<b>3 Resistance</b>				
MoR characteristic	<b>Transverse</b>	<i>48 Mpa</i>	<b>Longitudinal</b>	<i>51 Mpa</i>
Medium load breakages	<b>Transverse</b>	<i>824 N</i>	<b>Longitudinal</b>	<i>834 N</i>
<b>4 Water absorption</b>	<i>0,16%</i>			
<b>5 Freeze thaw test</b>	<i>not required</i>			
<b>6 Thermic cycle essay</b>	<i>T1</i>			
<b>7 Carbonates content</b>	<i>0,9%</i>			
<b>8 Essays of SO2 exposure</b>	<i>≤ 20% en carbonates</i>	<i>S1</i>		
	<i>&gt; 20% en carbonates</i>	<i>Thickness of the softened layer</i>	<i>mm</i>	
<b>9 Contents of carbonate non carbonated</b>	<i>0,27%</i>			
<b>10 Exposure to the external fire</b>	<i>It is considered to comply</i>			
<b>11 Fire reaction</b>	<i>It is considered to comply with A1 class</i>			
<b>12 Dangerous substances emission</b>	<i>None in normal conditions of use as a roof o external cladding</i>			

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## ACCOMPANIMENT DOCUMENT / DECLARATION OF CONFORMITY

Manufacturer: *Valdocal*

**EN 12326-1:2004**

Comercial document number: *05001* Issue date: *13/11/2007*

Comercial document issued by: *Cupa Pizarras S.A.*

Quarry or mine location: *Valdocal.Pusmazán. León ( España )*

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Sampling date: *29/05/2007* Essay date: *13/08/2007*

Product description and comercial name: *Slate for roofing and exterior cladding.Cupa 5* **Conformity**

**1 Dimensional tolerances**

Sizes *46x30 - 40x25 - 40x20 - 35x25 - 32x22 - 30x20 - 27x18 - 30x30 - 30x18 - 35x22 - 40x22 - 35x20*

Deviation of the declared lenght *Complies < ±5mms*

Deviation of the declared width *Complies < ±5mms*

Deviation of the orthogonality *Complies < ±1%*

Deviation of the edges linearity *Complies < 5mms & <=1% lenght*

Type of slate according to the flat surface **Very smooth** **Smooth** **Normal** **Texturised**

Deviation of the planicidad *<1%*

**2 Thickness**

Slate type for the calculation of the packaged slate thickness **Very smooth** **Smooth** **Normal** **Texturised**

Nominal thickness and variation *5,5mm±25%*

**3 Resistance**

MoR characteristic **Transverse** *48 Mpa* **Longitudinal** *51 Mpa*

Medium load breakages **Transverse** *824 N* **Longitudinal** *834 N*

4 Water absorption *0,16%*

5 Freeze thaw test *not required*

6 Thermic cycle essay *T1*

7 Carbonates content *0,9%*

8 Essays of SO2 exposure *S1*  

<b>≤ 20% en carbonates</b>		
<b>&gt; 20% en carbonates</b>	<i>Thickness of the softened layer</i>	<i>mm</i>

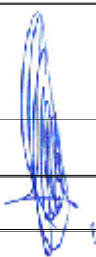
9 Contents of carbonate non carbonated *0,27%*

10 Exposure to the external fire *It is considered to comply*

11 Fire reaction *It is considered to comply with A1 class*

12 Dangerous substances emission *None in normal conditions of use as a roof o external cladding*

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## ACCOMPANIMENT DOCUMENT / DECLARATION OF CONFORMITY

Manufacturer: *Valdocal*

**EN 12326-1:2004**

Comercial document number: *05003* Issue date: *13/11/2007*

Comercial document issued by: *Cupa Pizarras S.A.*

Quarry or mine location: *Valdocal.Pusmazán. León ( España )*

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Sampling date: *29/05/2007* Essay date: *13/08/2007*

Product description and comercial name: *Slate for roofing and exterior cladding.Cupa 5* **Conformity**

**1 Dimensional tolerances**

**Sizes** *46x30 - 40x25 - 40x20 - 35x25 - 32x22 - 30x20 - 27x18 - 30x30 - 40x30 - 35x22 - 40x22 - 35x20*

**Deviation of the declared lenght** *Complies < ±5mms*

**Deviation of the declared width** *Complies < ±5mms*

**Deviation of the orthogonality** *Complies < ±1%*

**Deviation of the edges linearity** *Complies < 5mms & <=1% lenght*

**Type of slate according to the flat surface** **Very smooth** **Smooth** **Normal** **Texturised**

**Deviation of the planicidad** *<1,5%*

**2 Thickness**

**Slate type for the calculation of the packaged slate thickness** **Very smooth** **Smooth** **Normal** **Texturised**

**Nominal thickness and variation** *5,5mm±35%*

**3 Resistance**

**MoR characteristic** **Transverse** *48 Mpa* **Longitudinal** *51 Mpa*

**Medium load breakages** **Transverse** *824 N* **Longitudinal** *834 N*

**4 Water absorption** *0,16%*

**5 Freeze thaw test** *not required*

**6 Thermic cycle essay** *T1*

**7 Carbonates content** *0,9%*

**8 Essays of SO2 exposure** **≤ 20% en carbonates** *S1*

**> 20% en carbonates** *Thickness of the softened layer mm*

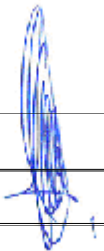
**9 Contents of carbonate non carbonated** *0,27%*

**10 Exposure to the external fire** *It is considered to comply*

**11 Fire reaction** *It is considered to comply with A1 class*

**12 Dangerous substances emission** *None in normal conditions of use as a roof o external cladding*

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## ACCOMPANIMENT DOCUMENT / DECLARATION OF CONFORMITY

Manufacturer: *Valdocal*

**EN 12326-1:2004**

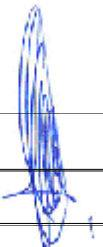
Comercial document number: *05006* Issue date: *13/11/2007*

Comercial document issued by: *Cupa Pizarras S.A.*

Quarry or mine location: *Valdocal.Pusmazán. León ( España )*

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Sampling date:	<i>29/05/2007</i>	Essay date:	<i>13/08/2007</i>		
Product description and comercial name:	<i>Slate for roofing and exterior cladding.Cupa 5</i>				<b>Conformity</b>
<b>1 Dimensional tolerances</b>					
<b>Sizes</b>	<i>30x30 Uni - 25x25 Uni - 20x20 Uni - 26x14 Spitzort - 37x14 Serrados - 60x45 - 50x30 - 40x30 - 21x11 Spitzort - 42x14 Serrados - 40x30 Rombo - 35x25 Rombo - 35x15 - 22x16 - 30x15 - 60x30 - 50x38 - 40x38</i>				
Deviation of the declared lenght	<i>Complies &lt; ±5mms</i>				
Deviation of the declared width	<i>Complies &lt; ±5mms</i>				
Deviation of the orthogonality	<i>Complies &lt; ±1%</i>				
Deviation of the edges linearity	<i>Complies &lt; 5mms &amp; &lt;=1% lenght</i>				
Type of slate according to the flat surface	<b>Very smooth</b>	<b>Smooth</b>	<b>Normal</b>	<b>Texturised</b>	
Deviation of the planicidad		<i>&lt;1%</i>			
<b>2 Thickness</b>					
Slate type for the calculation of the packaged slate thickness	<b>Very smooth</b>	<b>Smooth</b>	<b>Normal</b>	<b>Texturised</b>	
Nominal thickness and variation		<i>5,5mm±35%</i>			
<b>3 Resistance</b>					
MoR characteristic	<b>Transverse</b>	<i>48 Mpa</i>	<b>Longitudinal</b>	<i>51 Mpa</i>	
Medium load breakages	<b>Transverse</b>	<i>824 N</i>	<b>Longitudinal</b>	<i>834 N</i>	
<b>4 Water absorption</b>	<i>0,16%</i>				
<b>5 Freeze thaw test</b>	<i>not required</i>				
<b>6 Thermic cycle essay</b>	<i>T1</i>				
<b>7 Carbonates content</b>	<i>0,9%</i>				
<b>8 Essays of SO2 exposure</b>	<b>≤ 20% en carbonates</b>				<i>S1</i>
	<b>&gt; 20% en carbonates</b>	<i>Thickness of the softened layer</i>		<i>mm</i>	
<b>9 Contents of carbonate non carbonated</b>	<i>0,27%</i>				
<b>10 Exposure to the external fire</b>	<i>It is considered to comply</i>				
<b>11 Fire reaction</b>	<i>It is considered to comply with A1 class</i>				
<b>12 Dangerous substances emission</b>	<i>None in normal conditions of use as a roof o external cladding</i>				<b>DTOR. CALIDAI</b>



## ACCOMPANIMENT DOCUMENT / DECLARATION OF CONFORMITY

Manufacturer: *Valdocal*

### EN 12326-1:2004

Comercial document number: *05007* Issue date: *13/11/2007*

Comercial document issued by: *Cupa Pizarras S.A.*

Quarry or mine location: *Valdocal.Pusmazán. León ( España )*

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Sampling date: *29/05/2007* Essay date: *13/08/2007*

Product description and comercial name: *Slate for roofing and exterior cladding.Cupa 5* Conformity

#### 1 Dimensional tolerances

Sizes *46x25 - 50x30*

Deviation of the declared lenght *Complies < ±5mms*

Deviation of the declared width *Complies < ±5mms*

Deviation of the orthogonality *Complies < ±1%*

Deviation of the edges linearity *Complies < 5mms & <=1% lenght*

Type of slate according to the flat surface **Very smooth** **Smooth** **Normal** **Texturised**

Deviation of the planicidad *<1,5%*

#### 2 Thickness

Slate type for the calculation of the packaged slate thickness **Very smooth** **Smooth** **Normal** **Texturised**

Nominal thickness and variation *5,5mm±35%*

#### 3 Resistance

MoR characteristic **Transverse** *48 Mpa* **Longitudinal** *51 Mpa*

Medium load breakages **Transverse** *824 N* **Longitudinal** *834 N*

4 Water absorption *0,16%*

5 Freeze thaw test *not required*

6 Thermic cycle essay *T1*

7 Carbonates content *0,9%*

8 Essays of SO2 exposure **≤ 20% en carbonates** *S1*

**> 20% en carbonates** *Thickness of the softened layer mm*

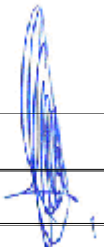
9 Contents of carbonate non carbonated *0,27%*

10 Exposure to the external fire *It is considered to comply*

11 Fire reaction *It is considered to comply with A1 class*

12 Dangerous substances emission *None in normal conditions of use as a roof o external cladding*

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## ACCOMPANIMENT DOCUMENT / DECLARATION OF CONFORMITY

Manufacturer: *Valdocal*

**EN 12326-1:2004**

Comercial document number: *05005* Issue date: *13/11/2007*

Comercial document issued by: *Cupa Pizarras S.A.*

Quarry or mine location: *Valdocal.Pusmazán. León ( España )*

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Sampling date: *29/05/2007* Essay date: *13/08/2007*

Product description and comercial name: *Slate for roofing and exterior cladding.Cupa 5* **Conformity**

### 1 Dimensional tolerances

Sizes *50x38 - 50x25 - 40x38 - 40x30 - 40x25 - 40x20 - 60x30 - 30x20 - 30x30 - 35x20- 45x30 - 46x25 - 40x40 - 35x30 - 45x25*

Deviation of the declared lenght *Complies < ±5mms*

Deviation of the declared width *Complies < ±5mms*

Deviation of the orthogonality *Complies < ±1%*

Deviation of the edges linearity *Complies < 5mms & <=1% lenght*

Type of slate according to the flat surface **Very smooth** **Smooth** **Normal** **Texturised**

Deviation of the planicidad *<1,5%*

### 2 Thickness

Slate type for the calculation of the packaged slate thickness **Very smooth** **Smooth** **Normal** **Texturised**

Nominal thickness and variation *7,75mm±35%*

### 3 Resistance

MoR characteristic **Transverse** *51 Mpa* **Longitudinal** *55 Mpa*

Medium load breakages **Transverse** *1569 N* **Longitudinal** *1617 N*

4 Water absorption *0,16%*

5 Freeze thaw test *not required*

6 Thermic cycle essay *T1*

7 Carbonates content *0,9%*

8 Essays of SO2 exposure **≤ 20% en carbonates** *S1*

**> 20% en carbonates** *Thickness of the softened layer mm*

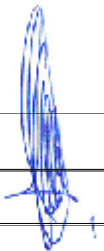
9 Contents of carbonate non carbonated *0,27%*

10 Exposure to the external fire *It is considered to comply*

11 Fire reaction *It is considered to comply with A1 class*

12 Dangerous substances emission *None in normal conditions of use as a roof o external cladding*

**DTOR. CALIDAI**



## ACCOMPANIMENT DOCUMENT / DECLARATION OF CONFORMITY

Manufacturer: *Valdocal*

### EN 12326-1:2004

Comercial document number: <i>05008</i>	Issue date: <i>13/11/2007</i>
Comercial document issued by: <i>Cupa Pizarras S.A.</i>	
Quarry or mine location: <i>Valdocal.Pusmazán. León ( España )</i>	

This document establishes conformity of the product described above and becomes uncomplete without the explanation of the essay results and the requests of the EN 12326-1:2004 Norm. The essays to which it refers and the criteria are included in the EN 12326-1:2004 and :2-2000 Norm.

Sampling date: <i>29/05/2007</i>	Essay date: <i>13/08/2007</i>					
Product description and comercial name:	<i>Slate for roofing and exterior cladding.Cupa 5</i>	<b>Conformity</b>				
<b>1 Dimensional tolerances</b>						
Sizes	<i>40x30 Rombo</i>					
Deviation of the declared lenght		<i>Complies &lt; ±5mms</i>				
Deviation of the declared width		<i>Complies &lt; ±5mms</i>				
Deviation of the orthogonality		<i>Complies &lt; ±1%</i>				
Deviation of the edges linearity		<i>Complies &lt; 5mms &amp; &lt;=1% lenght</i>				
Type of slate according to the flat surface	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;"><b>Very smooth</b></td> <td style="width: 25%;"><b>Smooth</b></td> <td style="width: 25%;"><b>Normal</b></td> <td style="width: 25%;"><b>Texturised</b></td> </tr> </table>	<b>Very smooth</b>	<b>Smooth</b>	<b>Normal</b>	<b>Texturised</b>	
<b>Very smooth</b>	<b>Smooth</b>	<b>Normal</b>	<b>Texturised</b>			
Deviation of the planicidad		<i>&lt;1,5%</i>				
<b>2 Thickness</b>						
Slate type for the calculation of the packaged slate thickness	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;"><b>Very smooth</b></td> <td style="width: 25%;"><b>Smooth</b></td> <td style="width: 25%;"><b>Normal</b></td> <td style="width: 25%;"><b>Texturised</b></td> </tr> </table>	<b>Very smooth</b>	<b>Smooth</b>	<b>Normal</b>	<b>Texturised</b>	
<b>Very smooth</b>	<b>Smooth</b>	<b>Normal</b>	<b>Texturised</b>			
Nominal thickness and variation		<i>9mm±35%</i>				
<b>3 Resistance</b>						
MoR characteristic	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;"><b>Transverse</b></td> <td style="width: 25%;"><i>51 Mpa</i></td> <td style="width: 25%;"><b>Longitudinal</b></td> <td style="width: 25%;"><i>55 Mpa</i></td> </tr> </table>	<b>Transverse</b>	<i>51 Mpa</i>	<b>Longitudinal</b>	<i>55 Mpa</i>	
<b>Transverse</b>	<i>51 Mpa</i>	<b>Longitudinal</b>	<i>55 Mpa</i>			
Medium load breakages	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;"><b>Transverse</b></td> <td style="width: 25%;"><i>1569 N</i></td> <td style="width: 25%;"><b>Longitudinal</b></td> <td style="width: 25%;"><i>1617 N</i></td> </tr> </table>	<b>Transverse</b>	<i>1569 N</i>	<b>Longitudinal</b>	<i>1617 N</i>	
<b>Transverse</b>	<i>1569 N</i>	<b>Longitudinal</b>	<i>1617 N</i>			
<b>4 Water absorption</b>		<i>0,16%</i>				
<b>5 Freeze thaw test</b>		<i>not required</i>				
<b>6 Thermic cycle essay</b>		<i>T1</i>				
<b>7 Carbonates content</b>		<i>0,9%</i>				
<b>8 Essays of SO2 exposure</b>	<i>≤ 20% en carbonates</i>	<i>S1</i>				
	<i>&gt; 20% en carbonates</i>	<i>Thickness of the softened layer                      mm</i>				
<b>9 Contents of carbonate non carbonated</b>		<i>0,27%</i>				
<b>10 Exposure to the external fire</b>	<i>It is considered to comply</i>					
<b>11 Fire reaction</b>	<i>It is considered to comply with A1 class</i>					
<b>12 Dangerous substances emission</b>	<i>None in normal conditions of use as a roof o external cladding</i>					

**DTOR. CALIDAI**