

ACCOMPANIMENT DOCUMENT / DECLARATION OF CONFORMITY

Manufacturer: Chano Castiello

EN 12326-1:2004

Comercial document number: 25003 **Issue date:** 13/11/2007

Comercial document issued by: Cupa Pizarras S.A.

Quarry or mine location: Pizarras Beta.Benuza. 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: 29/05/2007 **Essay date:** 13/08/2007

Product description and comercial name: Slate for roofing and exterior cladding.Cupa 25 **Conformity**

1 Dimensional tolerances

Sizes 32x22 - 30x20 - 27x18 - 25x18 - 25x15 - 27x15 - 27x16 - 35x25

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 4,2mm±35%

3 Resistance

MoR characteristic Transverse 17 Mpa Longitudinal 74 Mpa

Medium load breakages Transverse 396 N Longitudinal 629 N

4 Water absorption 0,24%

5 Freeze thaw test not required

6 Thermic cycle essay T1

7 Carbonates content 0,8%

8 Essays of SO2 exposure	≤ 20% en carbonates	S1	
	> 20% en carbonates	Thickness of the softened layer	mm

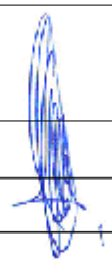
9 Contents of carbonate non carbonated 0,49%

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: Chano Castiello

EN 12326-1:2004

Comercial document number: 25002 **Issue date:** 13/11/2007

Comercial document issued by: Cupa Pizarras S.A.

Quarry or mine location: Pizarras Beta.Benuza. 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 25 **Conformity**

1 Dimensional tolerances

Sizes 32x22 - 30x20 - 27x18 - 25x18 - 25x15 - 27x15 - 27x16 - 35x25

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 4,2mm±35%

3 Resistance

MoR characteristic Transverse 17 Mpa Longitudinal 74 Mpa

Medium load breakages Transverse 396 N Longitudinal 629 N

4 Water absorption 0,24%

5 Freeze thaw test not required

6 Thermic cycle essay T1

7 Carbonates content 0,8%

8 Essays of SO2 exposure
 ≤ 20% en carbonates S1
 > 20% en carbonates Thickness of the softened layer mm

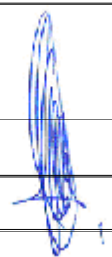
9 Contents of carbonate non carbonated 0,49%

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: Chano Castiello

EN 12326-1:2004

Comercial document number: 25001	Issue date: 13/11/2007
Comercial document issued by: Cupa Pizarras S.A.	
Quarry or mine location: Pizarras Beta.Benuza. 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 25				
Conformity					
1 Dimensional tolerances					
Sizes	32x22 - 30x20 - 27x18 - 25x18 - 25x15 - 27x15 - 27x16 - 35x25				
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	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">Very smooth</td> <td style="width: 25%;">Smooth</td> <td style="width: 25%;">Normal</td> <td style="width: 25%;">Texturised</td> </tr> </table>	Very smooth	Smooth	Normal	Texturised
Very smooth	Smooth	Normal	Texturised		
Deviation of the planicidad	<0,9%				
2 Thickness					
Slate type for the calculation of the packaged slate thickness	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">Very smooth</td> <td style="width: 25%;">Smooth</td> <td style="width: 25%;">Normal</td> <td style="width: 25%;">Texturised</td> </tr> </table>	Very smooth	Smooth	Normal	Texturised
Very smooth	Smooth	Normal	Texturised		
Nominal thickness and variation	4,2mm±35%				
3 Resistance					
MoR characteristic	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">Transverse</td> <td style="width: 25%;">17 Mpa</td> <td style="width: 25%;">Longitudinal</td> <td style="width: 25%;">74 Mpa</td> </tr> </table>	Transverse	17 Mpa	Longitudinal	74 Mpa
Transverse	17 Mpa	Longitudinal	74 Mpa		
Medium load breakages	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">Transverse</td> <td style="width: 25%;">396 N</td> <td style="width: 25%;">Longitudinal</td> <td style="width: 25%;">629 N</td> </tr> </table>	Transverse	396 N	Longitudinal	629 N
Transverse	396 N	Longitudinal	629 N		
4 Water absorption	0,24%				
5 Freeze thaw test	not required				
6 Thermic cycle essay	T1				
7 Carbonates content	0,8%				
8 Essays of SO2 exposure	≤ 20% en carbonates	S1			
	> 20% en carbonates	Thickness of the softened layer mm			
9 Contents of carbonate non carbonated	0,49%				
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: *Chano Castiello*

EN 12326-1:2004

Comercial document number: *25004* Issue date: *13/11/2007*

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

Quarry or mine location: *Pizarras Beta.Benuza. 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: *29/05/2007* Essay date: *13/08/2007*

Product description and comercial name: *Slate for roofing and exterior cladding.Cupa 25* **Conformity**

1 Dimensional tolerances

Sizes *32x22 - 30x20 - 27x18 - 25x18 - 25x15 - 27x15 - 27x16 - 50x25 - 40x25 - 50x38 - 40x38*

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 *<0,9%*

2 Thickness

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

Nominal thickness and variation *5mm±35%*

3 Resistance

MoR characteristic **Transverse** *56 Mpa* **Longitudinal** *68 Mpa*

Medium load breakages **Transverse** *686 N* **Longitudinal** *1019 N*

4 Water absorption *0,24%*

5 Freeze thaw test *not required*

6 Thermic cycle essay *T1*

7 Carbonates content *0,8%*

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

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

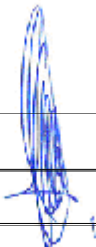
9 Contents of carbonate non carbonated *0,49%*

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: Chano Castiello

EN 12326-1:2004

Comercial document number: 25005	Issue date: 13/11/2007
Comercial document issued by: Cupa Pizarras S.A.	
Quarry or mine location: Pizarras Beta.Benuza. 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 25								
Conformity									
1 Dimensional tolerances									
Sizes	32x22 - 30x20 - 27x18 - 25x18 - 25x15 - 27x15 - 27x16 - 50x25 - 40x25 - 50x38 - 40x38								
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	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">Very smooth</td> <td style="width: 25%;">Smooth</td> <td style="width: 25%;">Normal</td> <td style="width: 25%;">Texturised</td> </tr> <tr> <td></td> <td style="text-align: center;"><1%</td> <td></td> <td></td> </tr> </table>	Very smooth	Smooth	Normal	Texturised		<1%		
Very smooth	Smooth	Normal	Texturised						
	<1%								
Deviation of the planicidad									
2 Thickness									
Slate type for the calculation of the packaged slate thickness	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">Very smooth</td> <td style="width: 25%;">Smooth</td> <td style="width: 25%;">Normal</td> <td style="width: 25%;">Texturised</td> </tr> <tr> <td></td> <td style="text-align: center;">5mm±35%</td> <td></td> <td></td> </tr> </table>	Very smooth	Smooth	Normal	Texturised		5mm±35%		
Very smooth	Smooth	Normal	Texturised						
	5mm±35%								
Nominal thickness and variation									
3 Resistance									
MoR characteristic	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">Transverse</td> <td style="width: 25%;">56 Mpa</td> <td style="width: 25%;">Longitudinal</td> <td style="width: 25%;">68 Mpa</td> </tr> </table>	Transverse	56 Mpa	Longitudinal	68 Mpa				
Transverse	56 Mpa	Longitudinal	68 Mpa						
Medium load breakages	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">Transverse</td> <td style="width: 25%;">686 N</td> <td style="width: 25%;">Longitudinal</td> <td style="width: 25%;">1019 N</td> </tr> </table>	Transverse	686 N	Longitudinal	1019 N				
Transverse	686 N	Longitudinal	1019 N						
4 Water absorption	0,24%								
5 Freeze thaw test	not required								
6 Thermic cycle essay	T1								
7 Carbonates content	0,8%								
8 Essays of SO2 exposure	≤ 20% en carbonates	S1							
	> 20% en carbonates	Thickness of the softened layer mm							
9 Contents of carbonate non carbonated	0,49%								
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: Chano Castiello

EN 12326-1:2004

Comercial document number: 25006 **Issue date:** 13/11/2007

Comercial document issued by: Cupa Pizarras S.A.

Quarry or mine location: Pizarras Beta.Benuza. 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 25 **Conformity**

1 Dimensional tolerances

Sizes 32x22 - 30x20 - 27x18 - 25x18 - 25x15 - 27x15 - 27x16 - 50x25 - 40x25 - 50x38 - 40x38

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 5mm±35%

3 Resistance

MoR characteristic Transverse 56 Mpa Longitudinal 68 Mpa

Medium load breakages Transverse 686 N Longitudinal 1019 N

4 Water absorption 0,24%

5 Freeze thaw test not required

6 Thermic cycle essay T1

7 Carbonates content 0,8%

8 Essays of SO2 exposure ≤ 20% en carbonates S1

> 20% en carbonates Thickness of the softened layer mm

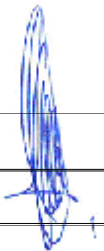
9 Contents of carbonate non carbonated 0,49%

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: Chano Castiello

EN 12326-1:2004

Comercial document number: 25007 **Issue date:** 03/03/2006

Comercial document issued by: Cupa Pizarras S.A.

Quarry or mine location: Pizarras Beta.Benuza. 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: 23/03/2005	Essay date: 02/05/2005				
Product description and comercial name:	Slate for roofing and exterior cladding.Cupa 25				Conformity
1 Dimensional tolerances					
Sizes	50x25 - 40x25 - 50x38 - 40x38				
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			7,7mm±35%		
3 Resistance					
MoR characteristic	Transverse	37 Mpa	Longitudinal	54 Mpa	
Medium load breakages	Transverse	589 N	Longitudinal	887 N	
4 Water absorption	0,29%				
5 Freeze thaw test	not required				
6 Thermic cycle essay	T1				
7 Carbonates content	0,3%				
8 Essays of SO2 exposure	≤ 20% en carbonates				S1
	> 20% en carbonates	Thickness of the softened layer		mm	
9 Contents of carbonate non carbonated	0,51%				
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

