

ACCOMPANIMENT DOCUMENT / DECLARATION OF CONFORMITY

Manufacturer: *Armadilla*

EN 12326-1:2004

Comercial document number: *04003* Issue date: *13/11/2007*

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

Quarry or mine location: *Armadilla.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 4* Conformity

1 Dimensional tolerances

Sizes *33x23 - 32x22 - 30x20 - 30x18 - 27x18 - 25x18 - 25x15 - 27x16 - 27x15*

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 *<2%*

2 Thickness

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

Nominal thickness and variation *3,5±35%*

3 Resistance

MoR characteristic **Transverse** *51 Mpa* **Longitudinal** *61 Mpa*

Medium load breakages **Transverse** *445 N* **Longitudinal** *549 N*

4 Water absorption *0,27%*

5 Freeze thaw test *not required*

6 Thermic cycle essay *T1*

7 Carbonates content *0,6%*

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

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

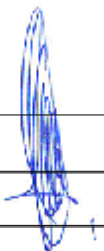
9 Contents of carbonate non carbonated *0,44%*

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: *Armadilla*

EN 12326-1:2004

Comercial document number: *04002* Issue date: *13/11/2007*

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

Quarry or mine location: *Armadilla.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 4* Conformity

1 Dimensional tolerances

Sizes *33x23 - 32x22 - 30x20 - 30x18 - 27x18 - 25x18 - 25x15 - 27x16 - 27x15*

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 *3,5±25%*

3 Resistance

MoR characteristic **Transverse** *51 Mpa* **Longitudinal** *61 Mpa*

Medium load breakages **Transverse** *445 N* **Longitudinal** *549 N*

4 Water absorption *0,27%*

5 Freeze thaw test *not required*

6 Thermic cycle essay *T1*

7 Carbonates content *0,6%*

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

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

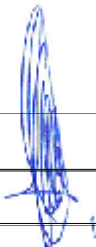
9 Contents of carbonate non carbonated *0,44%*

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: *Armadilla*

EN 12326-1:2004

Comercial document number: *04001* Issue date: *13/11/2007*

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

Quarry or mine location: *Armadilla.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 4* Conformity

1 Dimensional tolerances

Sizes *33x23 - 32x22 - 30x20 - 30x18 - 27x18 - 25x18 - 25x15 - 27x16 - 27x15*

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 *3,5±25%*

3 Resistance

MoR characteristic **Transverse** *51 Mpa* **Longitudinal** *61 Mpa*

Medium load breakages **Transverse** *445 N* **Longitudinal** *549 N*

4 Water absorption *0,27%*

5 Freeze thaw test *not required*

6 Thermic cycle essay *T1*

7 Carbonates content *0,6%*

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

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

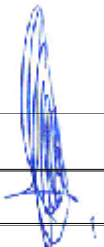
9 Contents of carbonate non carbonated *0,44%*

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: *Armadilla*

EN 12326-1:2004

Comercial document number: <i>04004</i>	Issue date: <i>13/11/2007</i>
Comercial document issued by: <i>Cupa Pizarras S.A.</i>	
Quarry or mine location: <i>Armadilla.Benuza. 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 4</i>	Conformity		
1 Dimensional tolerances				
Sizes	<i>40x22 - 40x20 - 36x23 - 35x25 - 35x22 - 35x20</i>			
Deviation of the declared lenght	<i>Complies < ±5mms</i>			
Deviation of the declared width	<i>Complies < ±5mms</i>			
Deviation of the orthogonality	<i>Complies < ±1%</i>			
Deviation of the edges linearity	<i>Complies < 5mms & <=1% lenght</i>			
Type of slate according to the flat surface	Very smooth	Smooth	Normal	Texturised
Deviation of the planicidad	<i><0,9%</i>			
2 Thickness				
Slate type for the calculation of the packaged slate thickness	Very smooth	Smooth	Normal	Texturised
Nominal thickness and variation	<i>4±25%</i>			
3 Resistance				
MoR characteristic	Transverse	<i>53 Mpa</i>	Longitudinal	<i>64 Mpa</i>
Medium load breakages	Transverse	<i>529 N</i>	Longitudinal	<i>557 N</i>
4 Water absorption	<i>0,27%</i>			
5 Freeze thaw test	<i>not required</i>			
6 Thermic cycle essay	<i>T1</i>			
7 Carbonates content	<i>0,6%</i>			
8 Essays of SO2 exposure	≤ 20% en carbonates	<i>S1</i>		
	> 20% en carbonates	<i>Thickness of the softened layer</i>	<i>mm</i>	
9 Contents of carbonate non carbonated	<i>0,44%</i>			
10 Exposure to the external fire	<i>It is considered to comply</i>			
11 Fire reaction	<i>It is considered to comply with A1 class</i>			
12 Dangerous substances emission	<i>None in normal conditions of use as a roof o external cladding</i>			

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ACCOMPANIMENT DOCUMENT / DECLARATION OF CONFORMITY

Manufacturer: *Armadilla*

EN 12326-1:2004

Comercial document number: *04006* Issue date: *13/11/2007*

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

Quarry or mine location: *Armadilla.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 4* Conformity

1 Dimensional tolerances

Sizes *40x22 - 40x20 - 36x23 - 35x25 - 35x22 - 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 *4±35%*

3 Resistance

MoR characteristic **Transverse** *53 Mpa* **Longitudinal** *64 Mpa*

Medium load breakages **Transverse** *529 N* **Longitudinal** *557 N*

4 Water absorption *0,27%*

5 Freeze thaw test *not required*

6 Thermic cycle essay *T1*

7 Carbonates content *0,6%*

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

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

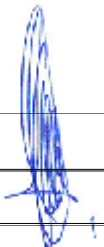
9 Contents of carbonate non carbonated *0,44%*

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: *Armadilla*

EN 12326-1:2004

Comercial document number: <i>04005</i>	Issue date: <i>13/11/2007</i>
Comercial document issued by: <i>Cupa Pizarras S.A.</i>	
Quarry or mine location: <i>Armadilla.Benuza. 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 4</i>	Conformity		
1 Dimensional tolerances				
Sizes	<i>40x22 - 40x20 - 36x23 - 35x25 - 35x22 - 35x20</i>			
Deviation of the declared lenght	<i>Complies < ±5mms</i>			
Deviation of the declared width	<i>Complies < ±5mms</i>			
Deviation of the orthogonality	<i>Complies < ±1%</i>			
Deviation of the edges linearity	<i>Complies < 5mms & <=1% lenght</i>			
Type of slate according to the flat surface	Very smooth	Smooth	Normal	Texturised
Deviation of the planicidad		<i><1%</i>		
2 Thickness				
Slate type for the calculation of the packaged slate thickness	Very smooth	Smooth	Normal	Texturised
Nominal thickness and variation		<i>4±25%</i>		
3 Resistance				
MoR characteristic	Transverse	<i>53 Mpa</i>	Longitudinal	<i>64 Mpa</i>
Medium load breakages	Transverse	<i>529 N</i>	Longitudinal	<i>557 N</i>
4 Water absorption				<i>0,27%</i>
5 Freeze thaw test				<i>not required</i>
6 Thermic cycle essay				<i>T1</i>
7 Carbonates content				<i>0,6%</i>
8 Essays of SO2 exposure	≤ 20% en carbonates			<i>S1</i>
	> 20% en carbonates	<i>Thickness of the softened layer</i>		<i>mm</i>
9 Contents of carbonate non carbonated				<i>0,44%</i>
10 Exposure to the external fire	<i>It is considered to comply</i>			
11 Fire reaction	<i>It is considered to comply with A1 class</i>			
12 Dangerous substances emission	<i>None in normal conditions of use as a roof o external cladding</i>			

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ACCOMPANIMENT DOCUMENT / DECLARATION OF CONFORMITY

Manufacturer: *Armadilla*

EN 12326-1:2004

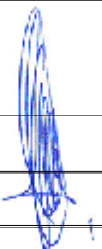
Comercial document number: *04007* Issue date: *03/03/2006*

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

Quarry or mine location: *Armadilla.Benuza. León (España)*

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Sampling date:	<i>08/06/2006</i>	Essay date:	<i>21/06/2006</i>		
Product description and comercial name:	<i>Slate for roofing and exterior cladding.Cupa 4</i>				Conformity
1 Dimensional tolerances					
Sizes	<i>33x23 - 32x22 - 30x20 - 30x18 - 27x18 - 25x18 - 25x15 - 27x16 - 27x15</i>				
Deviation of the declared lenght	<i>Complies < ±5mms</i>				
Deviation of the declared width	<i>Complies < ±5mms</i>				
Deviation of the orthogonality	<i>Complies < ±1%</i>				
Deviation of the edges linearity	<i>Complies < 5mms & <=1% lenght</i>				
Type of slate according to the flat surface	Very smooth	Smooth	Normal	Texturised	
Deviation of the planicidad	<i><0,9%</i>				
2 Thickness					
Slate type for the calculation of the packaged slate thickness	Very smooth	Smooth	Normal	Texturised	
Nominal thickness and variation	<i>4,5±25%</i>				
3 Resistance					
MoR characteristic	Transverse	<i>47 Mpa</i>	Longitudinal	<i>50 Mpa</i>	
Medium load breakages	Transverse	<i>548 N</i>	Longitudinal	<i>605 N</i>	
4 Water absorption	<i>0,20%</i>				
5 Freeze thaw test	<i>not required</i>				
6 Thermic cycle essay	<i>T1</i>				
7 Carbonates content	<i>0,4%</i>				
8 Essays of SO2 exposure	≤ 20% en carbonates	<i>S1</i>			
	> 20% en carbonates	<i>Thickness of the softened layer</i>	<i>mm</i>		
9 Contents of carbonate non carbonated	<i>0,50%</i>				
10 Exposure to the external fire	<i>It is considered to comply</i>				
11 Fire reaction	<i>It is considered to comply with A1 class</i>				
12 Dangerous substances emission	<i>None in normal conditions of use as a roof o external cladding</i>				DTOR. CALIDAI



ACCOMPANIMENT DOCUMENT / DECLARATION OF CONFORMITY

Manufacturer: *Armadilla*

EN 12326-1:2004

Comercial document number: *04008* Issue date: *03/03/2006*

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

Quarry or mine location: *Armadilla.Benuza. León (España)*

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Sampling date: *08/06/2006* Essay date: *21/06/2006*

Product description and comercial name: *Slate for roofing and exterior cladding.Cupa 4* **Conformity**

1 Dimensional tolerances

Sizes *33x23 - 32x22 - 30x20 - 30x18 - 27x18 - 25x18 - 25x15 - 27x16 - 27x15*

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 *4,5±25%*

3 Resistance

MoR characteristic **Transverse** *47 Mpa* **Longitudinal** *50 Mpa*

Medium load breakages **Transverse** *548 N* **Longitudinal** *605 N*

4 Water absorption *0,20%*

5 Freeze thaw test *not required*

6 Thermic cycle essay *T1*

7 Carbonates content *0,4%*

8 Essays of SO2 exposure *S1*

≤ 20% en carbonates		
> 20% en carbonates	<i>Thickness of the softened layer</i>	<i>mm</i>

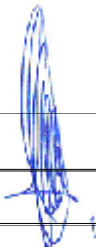
9 Contents of carbonate non carbonated *0,50%*

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: *Armadilla*

EN 12326-1:2004

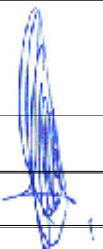
Comercial document number: *04009* Issue date: *03/03/2006*

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

Quarry or mine location: *Armadilla.Benuza. León (España)*

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Sampling date:	<i>08/06/2006</i>	Essay date:	<i>21/06/2006</i>		
Product description and comercial name:	<i>Slate for roofing and exterior cladding.Cupa 4</i>				Conformity
1 Dimensional tolerances					
Sizes	<i>33x23 - 32x22 - 30x20 - 30x18 - 27x18 - 25x18 - 25x15 - 27x16 - 27x15</i>				
Deviation of the declared lenght	<i>Complies < ±5mms</i>				
Deviation of the declared width	<i>Complies < ±5mms</i>				
Deviation of the orthogonality	<i>Complies < ±1%</i>				
Deviation of the edges linearity	<i>Complies < 5mms & <=1% lenght</i>				
Type of slate according to the flat surface	Very smooth	Smooth	Normal	Texturised	
Deviation of the planicidad			<i><1,5%</i>		
2 Thickness					
Slate type for the calculation of the packaged slate thickness	Very smooth	Smooth	Normal	Texturised	
Nominal thickness and variation			<i>4,5±35%</i>		
3 Resistance					
MoR characteristic	Transverse	<i>47 Mpa</i>	Longitudinal	<i>50 Mpa</i>	
Medium load breakages	Transverse	<i>548 N</i>	Longitudinal	<i>605 N</i>	
4 Water absorption	<i>0,20%</i>				
5 Freeze thaw test	<i>not required</i>				
6 Thermic cycle essay	<i>T1</i>				
7 Carbonates content	<i>0,4%</i>				
8 Essays of SO2 exposure	≤ 20% en carbonates	<i>S1</i>			
	> 20% en carbonates	<i>Thickness of the softened layer</i>	<i>mm</i>		
9 Contents of carbonate non carbonated	<i>0,50%</i>				
10 Exposure to the external fire	<i>It is considered to comply</i>				
11 Fire reaction	<i>It is considered to comply with A1 class</i>				
12 Dangerous substances emission	<i>None in normal conditions of use as a roof o external cladding</i>				DTOR. CALIDAI



ACCOMPANIMENT DOCUMENT / DECLARATION OF CONFORMITY

Manufacturer: *Armadilla*

EN 12326-1:2004

Comercial document number: <i>04010</i>	Issue date: <i>03/03/2006</i>
Comercial document issued by: <i>Cupa Pizarras S.A.</i>	
Quarry or mine location: <i>Armadilla.Benuza. 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>08/06/2006</i>	Essay date: <i>21/06/2006</i>			
Product description and comercial name:	<i>Slate for roofing and exterior cladding.Cupa 4</i>	Conformity		
1 Dimensional tolerances				
Sizes	<i>40x22 - 40x20 - 36x23 - 35x25 - 50x25 - 35x22 - 35x20</i>			
Deviation of the declared lenght	<i>Complies < ±5mms</i>			
Deviation of the declared width	<i>Complies < ±5mms</i>			
Deviation of the orthogonality	<i>Complies < ±1%</i>			
Deviation of the edges linearity	<i>Complies < 5mms & <=1% lenght</i>			
Type of slate according to the flat surface	Very smooth	Smooth	Normal	Texturised
Deviation of the planicidad	<i><0,9%</i>			
2 Thickness				
Slate type for the calculation of the packaged slate thickness	Very smooth	Smooth	Normal	Texturised
Nominal thickness and variation	<i>5±25%</i>			
3 Resistance				
MoR characteristic	Transverse	<i>42 Mpa</i>	Longitudinal	<i>39 Mpa</i>
Medium load breakages	Transverse	<i>644 N</i>	Longitudinal	<i>728 N</i>
4 Water absorption	<i>0,17%</i>			
5 Freeze thaw test	<i>not required</i>			
6 Thermic cycle essay	<i>T1</i>			
7 Carbonates content	<i>0,3%</i>			
8 Essays of SO2 exposure	≤ 20% en carbonates	<i>S1</i>		
	> 20% en carbonates	<i>Thickness of the softened layer</i>	<i>mm</i>	
9 Contents of carbonate non carbonated	<i>0,38%</i>			
10 Exposure to the external fire	<i>It is considered to comply</i>			
11 Fire reaction	<i>It is considered to comply with A1 class</i>			
12 Dangerous substances emission	<i>None in normal conditions of use as a roof o external cladding</i>			

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ACCOMPANIMENT DOCUMENT / DECLARATION OF CONFORMITY

Manufacturer: *Armadilla*

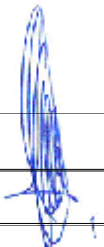
EN 12326-1:2004

Comercial document number: <i>04012</i>	Issue date: <i>03/03/2006</i>
Comercial document issued by: <i>Cupa Pizarras S.A.</i>	
Quarry or mine location: <i>Armadilla.Benuza. 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>08/06/2006</i>	Essay date: <i>21/06/2006</i>			
Product description and comercial name:	<i>Slate for roofing and exterior cladding.Cupa 4</i>	Conformity		
1 Dimensional tolerances				
Sizes	<i>40x22 - 40x20 - 36x23 - 35x25 - 50x25 - 35x22 - 35x20</i>			
Deviation of the declared lenght	<i>Complies < ±5mms</i>			
Deviation of the declared width	<i>Complies < ±5mms</i>			
Deviation of the orthogonality	<i>Complies < ±1%</i>			
Deviation of the edges linearity	<i>Complies < 5mms & <=1% lenght</i>			
Type of slate according to the flat surface	Very smooth	Smooth	Normal	Texturised
Deviation of the planicidad			<i><1,5%</i>	
2 Thickness				
Slate type for the calculation of the packaged slate thickness	Very smooth	Smooth	Normal	Texturised
Nominal thickness and variation			<i>5±35%</i>	
3 Resistance				
MoR characteristic	Transverse	<i>42 Mpa</i>	Longitudinal	<i>39 Mpa</i>
Medium load breakages	Transverse	<i>644 N</i>	Longitudinal	<i>728 N</i>
4 Water absorption				<i>0,17%</i>
5 Freeze thaw test				<i>not required</i>
6 Thermic cycle essay				<i>T1</i>
7 Carbonates content				<i>0,3%</i>
8 Essays of SO2 exposure	≤ 20% en carbonates			<i>S1</i>
	> 20% en carbonates	<i>Thickness of the softened layer</i>		<i>mm</i>
9 Contents of carbonate non carbonated				<i>0,38%</i>
10 Exposure to the external fire	<i>It is considered to comply</i>			
11 Fire reaction	<i>It is considered to comply with A1 class</i>			
12 Dangerous substances emission	<i>None in normal conditions of use as a roof o external cladding</i>			

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ACCOMPANIMENT DOCUMENT / DECLARATION OF CONFORMITY

Manufacturer: *Armadilla*

EN 12326-1:2004

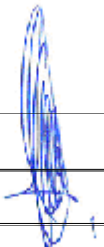
Comercial document number: *04011* Issue date: *03/03/2006*

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

Quarry or mine location: *Armadilla.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:	<i>08/06/2006</i>	Essay date:	<i>21/06/2006</i>		
Product description and comercial name:	<i>Slate for roofing and exterior cladding.Cupa 4</i>				Conformity
1 Dimensional tolerances					
Sizes	<i>40x22 - 40x20 - 36x23 - 35x25 - 50x25 - 35x22 - 35x20</i>				
Deviation of the declared lenght	<i>Complies < ±5mms</i>				
Deviation of the declared width	<i>Complies < ±5mms</i>				
Deviation of the orthogonality	<i>Complies < ±1%</i>				
Deviation of the edges linearity	<i>Complies < 5mms & <=1% lenght</i>				
Type of slate according to the flat surface	Very smooth	Smooth	Normal	Texturised	
Deviation of the planicidad		<i><1%</i>			
2 Thickness					
Slate type for the calculation of the packaged slate thickness	Very smooth	Smooth	Normal	Texturised	
Nominal thickness and variation		<i>5±25%</i>			
3 Resistance					
MoR characteristic	Transverse	<i>42 Mpa</i>	Longitudinal	<i>39 Mpa</i>	
Medium load breakages	Transverse	<i>644 N</i>	Longitudinal	<i>728 N</i>	
4 Water absorption	<i>0,17%</i>				
5 Freeze thaw test	<i>not required</i>				
6 Thermic cycle essay	<i>T1</i>				
7 Carbonates content	<i>0,3%</i>				
8 Essays of SO2 exposure	≤ 20% en carbonates				<i>S1</i>
	> 20% en carbonates	<i>Thickness of the softened layer</i>		<i>mm</i>	
9 Contents of carbonate non carbonated	<i>0,38%</i>				
10 Exposure to the external fire	<i>It is considered to comply</i>				
11 Fire reaction	<i>It is considered to comply with A1 class</i>				
12 Dangerous substances emission	<i>None in normal conditions of use as a roof o external cladding</i>				DTOR. CALIDAI



ACCOMPANIMENT DOCUMENT / DECLARATION OF CONFORMITY

Manufacturer: *Armadilla*

EN 12326-1:2004

Comercial document number: *04013* Issue date: *03/03/2006*

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

Quarry or mine location: *Armadilla.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: <i>08/06/2006</i>	Essay date: <i>21/06/2006</i>			
Product description and comercial name:	<i>Slate for roofing and exterior cladding.Cupa 4</i>	Conformity		
1 Dimensional tolerances				
Sizes	<i>40x30 Rombo - 50x38 - 50x25 - 40x38 - 40x30 - 40x25 - 40x20 - 35x30 - 35x20 - 30x20 - 30x30 - 35x25 - 40x40</i>			
Deviation of the declared lenght	<i>Complies < ±5mms</i>			
Deviation of the declared width	<i>Complies < ±5mms</i>			
Deviation of the orthogonality	<i>Complies < ±1%</i>			
Deviation of the edges linearity	<i>Complies < 5mms & <=1% lenght</i>			
Type of slate according to the flat surface	Very smooth	Smooth	Normal	Texturised
Deviation of the planicidad			<i><1,5%</i>	
2 Thickness				
Slate type for the calculation of the packaged slate thickness	Very smooth	Smooth	Normal	Texturised
Nominal thickness and variation			<i>7,65±35%</i>	
3 Resistance				
MoR characteristic	Transverse	<i>43 Mpa</i>	Longitudinal	<i>49 Mpa</i>
Medium load breakages	Transverse	<i>1792 N</i>	Longitudinal	<i>2117 N</i>
4 Water absorption	<i>0,17%</i>			
5 Freeze thaw test	<i>not required</i>			
6 Thermic cycle essay	<i>T1</i>			
7 Carbonates content	<i>0,3%</i>			
8 Essays of SO2 exposure	≤ 20% en carbonates	<i>S1</i>		
	> 20% en carbonates	<i>Thickness of the softened layer</i>	<i>mm</i>	
9 Contents of carbonate non carbonated	<i>0,38%</i>			
10 Exposure to the external fire	<i>It is considered to comply</i>			
11 Fire reaction	<i>It is considered to comply with A1 class</i>			
12 Dangerous substances emission	<i>None in normal conditions of use as a roof o external cladding</i>			

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