

theStonenature



FRAZÃO
ROCHAS S.A.



PRESENTATION

Frazão – Mármore & Rochas de Alcanede Lda., is settled in the North Industrial Zone of Alcanede (the biggest zone of Portugal in limestone's exploration) managing the transformation and commercialization of all limestone types from the region, with an annual production of approximately 150.000 M2.

With a fabrication area of 6.000 M2, inserted in a total area of 34.000 M2, has as one of the main objectives the production of pavements and coverings in stone, polished, honed, aged, rustic, etc., from hard limestones.

Frazão – Mármore & Rochas de Alcanede Lda., belongs to Grupo Frazão, with 40 years of experience in the activity of exploring quarries, what assures the supply and quality of the material.





TRANSFORMATION



LIMESTONE APPLICATION

Frazão – Mármore & Rochas de Alcanede Lda., is settled in the North Industrial Zone of Alcanede (the biggest zone of Portugal in limestone's exploration) managing the transformation and commercialization of all limestone types from the region, with an annual production of approximately 150.000 M2.

With a fabrication area of 6.000 M2, inserted in a total area of 34.000 M2, has as one of the main objectives the production of pavements and coverings in stone, polished, honed, aged, rustic, etc., from hard limestones.

Frazão – Mármore & Rochas de Alcanede Lda., belongs to Grupo Frazão, with 40 years of experience in the activity of exploring quarries, what assures the supply and quality of the material.





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MOCA CREME FINO LIMESTONE

PHISICAL-MECHANICAL PROPERTIES

Compression Break. Load:	83.0 MPa
Compression BL after FT:	87.0 MPa
Bending Stregth:	10.8 MPa
Volumetric Weigth:	2280 Kg/m ³
Water Absorption:	3.4%
Aparent Porosity:	7.7%
Thermal Lin. Expan. Coef.:	3.4 10 ⁶ per°C
Abrasion Test:	4.0 mm
Impact Test:	30-35 cm

MICROSCOPIC PROPERTIES

Calcite	100%
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CREME RIJO - RV1 LIMESTONE

A FAVOR CROSSCUT

PHISICAL-MECHANICAL PROPERTIES

Compression Break. Load:	83.0 MPa
Compression BL after FT:	87.0 MPa
Bending Stregth:	10.8 MPa
Volumetric Weigth:	2280 Kg/m ³
Water Absorption:	3.4%
Aparent Porosity:	7.7%
Thermal Lin. Expan. Coef.:	3.4 10 ⁶ per°C
Abrasion Test:	4.0 mm
Impact Test:	30-35 cm

MICROSCOPIC PROPERTIES

Calcite	100%
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CREME RIJO - RV1 LIMESTONE RELVINHA

PHISICAL-MECHANICAL PROPERTIES

Compression Break. Load:	83.0 MPa
Compression BL after FT:	87.0 MPa
Bending Stregth:	10.8 MPa
Volumetric Weigth:	2280 Kg/m ³
Water Absorption:	3.4%
Aparent Porosity:	7.7%
Thermal Lin. Expan. Coef.:	3.4 10 ⁶ per°C
Abrasion Test:	4.0 mm
Impact Test:	30-35 cm

MICROSCOPIC PROPERTIES

Calcite	100%
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MOCA CREME MÉDIO LIMESTONE

PHISICAL-MECHANICAL PROPERTIES

Compression Break. Load:	92.0 MPa
Compression BL after FT:	86.0 MPa
Bending Stregth:	11.6 MPa
Volumetric Weigth:	2341 Kg/m ³
Water Absorption:	2.6%
Aparent Porosity:	6.1%
Thermal Lin. Expan. Coef.:	5.3 10 ⁻⁶ per°C
Abrasion Test:	4.0 mm
Impact Test:	40 cm

MICROSCOPIC PROPERTIES

Calcite	100%
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MOCA CREME CLÁSSICO LIMESTONE

PHISICAL-MECHANICAL PROPERTIES

Compression Break. Load:	98.2 MPa
Compression BL after FT:	87.0 MPa
Bending Stregth:	11.0 MPa
Volumetric Weigth:	2382 Kg/m ³
Water Absorption:	2.2%
Aparent Porosity:	5.3%
Thermal Lin. Expan. Coef.:	3.9 10 ⁻⁶ per°C
Abrasion Test:	4.0 mm
Impact Test:	35 cm

MICROSCOPIC PROPERTIES

Calcite	100%
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CREME ALCANEDE LIMESTONE ENVELHECIDO

PHISICAL-MECHANICAL PROPERTIES

Compression Break. Load:	85.0 MPa
Compression BL after FT:	86.0 MPa
Bending Stregth:	10.8 MPa
Volumetric Weigth:	2309 Kg/m ³
Water Absorption:	2.8%
Aparent Porosity:	6.9%
Thermal Lin. Expan. Coef.:	4.2 10 ⁻⁶ per°C
Abrasion Test:	4.0 mm
Impact Test:	30-35 cm

MICROSCOPIC PROPERTIES

Calcite	100%
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ROSAL LIMESTONE

PHISICAL-MECHANICAL PROPERTIES

Compression Break. Load:	81.0 MPa
Compression BL after FT:	83.2 MPa
Bending Stregth:	6.0 MPa
Volumetric Weigth:	2230 Kg/m ³
Water Absorption:	7.2%
Aparent Porosity:	14.0%
Thermal Lin. Expan. Coef.:	3.8 10 ⁻⁶ per°C
Abrasion Test:	3.5 mm
Impact Test:	30 cm

MICROSCOPIC PROPERTIES

Calcite	100%
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VICENTE BEGE LIMESTONE

PHISICAL-MECHANICAL PROPERTIES

Compression Break. Load:	89.9 MPa
Compression BL after FT:	91.2 MPa
Bending Stregth:	14.1 MPa
Volumetric Weigth:	2478 Kg/m ³
Water Absorption:	3.07%
Aparent Porosity:	7.62%
Thermal Lin. Expan. Coef.:	3.8 10 ⁻⁶ per°C
Abrasion Test:	3.5 mm
Impact Test:	30-40 cm

MICROSCOPIC PROPERTIES

Calcite	100%
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BRANCO MAR - CV LIMESTONE

PHISICAL-MECHANICAL PROPERTIES

Compression Break. Load:	93.5 MPa
Compression BL after FT:	101.0 MPa
Bending Stregth:	10.3 MPa
Volumetric Weigth:	2368 Kg/m ³
Water Absorption:	4.8%
Aparent Porosity:	11.37%
Thermal Lin. Expan. Coef.:	3.8 10 ⁶ per°C
Abrasion Test:	6.9 mm
Impact Test:	30 cm

MICROSCOPIC PROPERTIES

Calcite	100%
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MOCA CREME LIMESTONE

A FAVOR CROSSCUT

PHISICAL-MECHANICAL PROPERTIES

Compression Break. Load:	98.2 MPa
Compression BL after FT:	87.0 MPa
Bending Stregth:	11.0 MPa
Volumetric Weigth:	2382 Kg/m ³
Water Absorption:	2.2%
Aparent Porosity:	5.3%
Thermal Lin. Expan. Coef.:	3.9 10 ⁻⁶ per°C
Abrasion Test:	4.0 mm
Impact Test:	35 cm

MICROSCOPIC PROPERTIES

Calcite	100%
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PERLINO LIMESTONE

PHISICAL-MECHANICAL PROPERTIES

Compression Break. Load:	88.0 MPa
Compression BL after FT:	90.1 MPa
Bending Stregth:	7.3 MPa
Volumetric Weigth:	2299 Kg/m ³
Water Absorption:	3.4%
Aparent Porosity:	7.9%
Thermal Lin. Expan. Coef.:	3.5 10 ⁻⁶ per°C
Abrasion Test:	2.3 mm
Impact Test:	35-40 cm

MICROSCOPIC PROPERTIES

Calcite	100%
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ROSA LIOZ

PHISICAL-MECHANICAL PROPERTIES

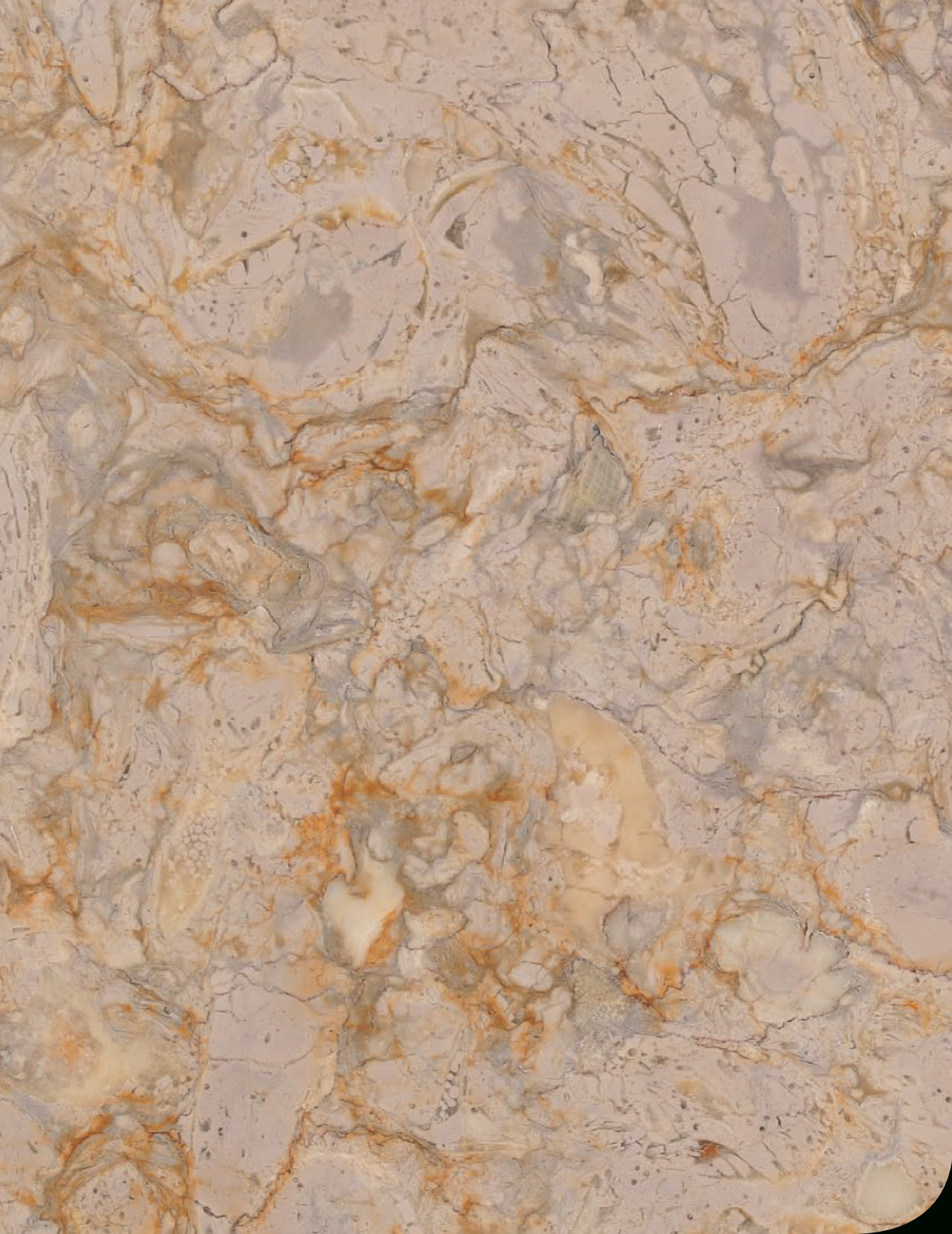
Compression Break. Load:	104.7 MPa
Compression BL after FT:	100.0 MPa
Bending Stregth:	18.7 MPa
Volumetric Weigth:	2689 Kg/m ³
Water Absorption:	0.16%
Aparent Porosity:	0.44%
Thermal Lin. Expan. Coef.:	5.9 10 ⁻⁶ per°C
Abrasion Test:	3.4 mm
Impact Test:	45 cm

MICROSCOPIC PROPERTIES

Calcite	100%
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CINZA LIOZ ENVELHECIDO

PHISICAL-MECHANICAL PROPERTIES

Compression Break. Load:	104.7 MPa
Compression BL after FT:	100.0 MPa
Bending Stregth:	18.7 MPa
Volumetric Weigth:	2689 Kg/m ³
Water Absorption:	0.16%
Aparent Porosity:	0.44%
Thermal Lin. Expan. Coef.:	5.9 10 ⁻⁶ per°C
Abrasion Test:	3.4 mm
Impact Test:	45 cm

MICROSCOPIC PROPERTIES

Calcite	100%
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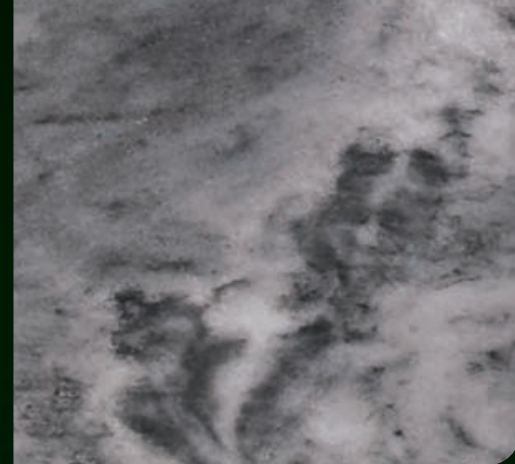
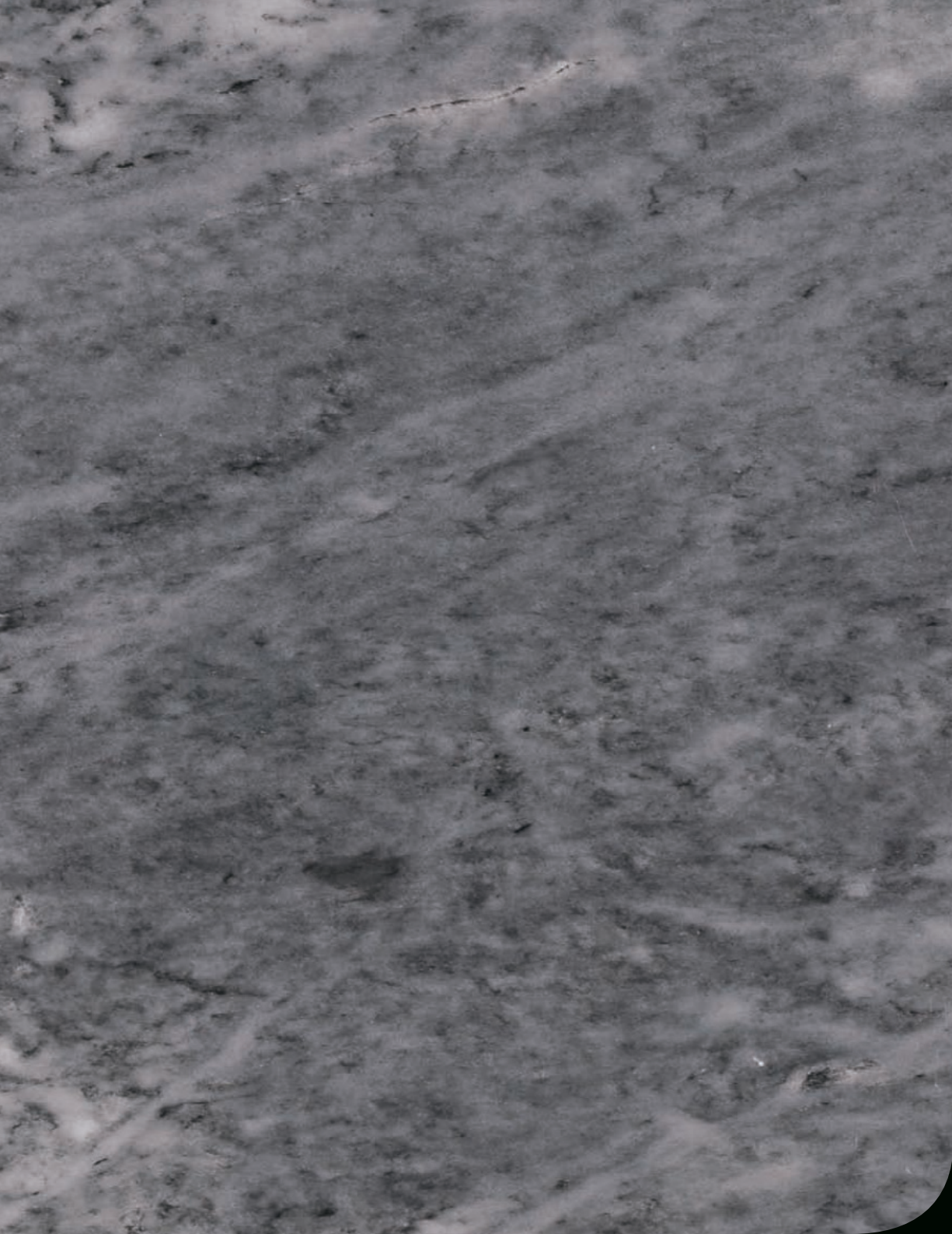
AZUL ATLÂNTICO LIMESTONE

PHISICAL-MECHANICAL PROPERTIES

Compression Break. Load:	130.0 MPa
Compression BL after FT:	130.0 MPa
Bending Stregth:	13.4 MPa
Volumetric Weigth:	2609 Kg/m ³
Water Absorption:	0.58%
Aparent Porosity:	1.5%
Thermal Lin. Expan. Coef.:	3.1 10 ⁻⁶ per°C
Abrasion Test:	2.6 mm
Impact Test:	40 cm

MICROSCOPIC PROPERTIES

Calcite	100%
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ESTREMOZ CINZA RAIADO MARBLE

PHISICAL-MECHANICAL PROPERTIES

Compression Break. Load:	84.6 MPa
Compression BL after FT:	87.0 MPa
Bending Stregth:	10.4 MPa
Volumetric Weigth:	2699 Kg/m ³
Water Absorption:	0.13%
Aparent Porosity:	0.34%
Thermal Lin. Expan. Coef.:	14.8 10 ⁻⁶ per°C
Abrasion Test:	2.6 mm
Impact Test:	55 cm

MICROSCOPIC PROPERTIES

Calcite	100%
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NEW FINISHING



OMEGA BAMBU



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PORTFOLIO

SWITZERLAND



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BRASIL



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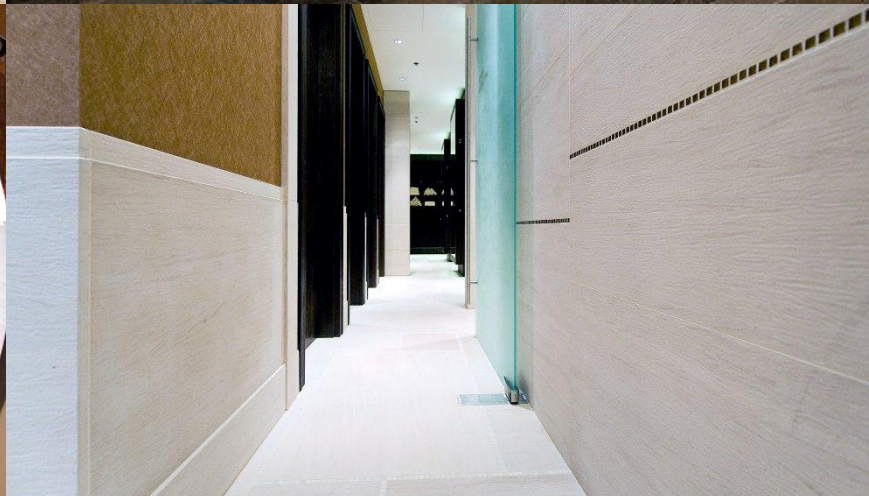
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SLOVAKIA



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SLOVAKIA



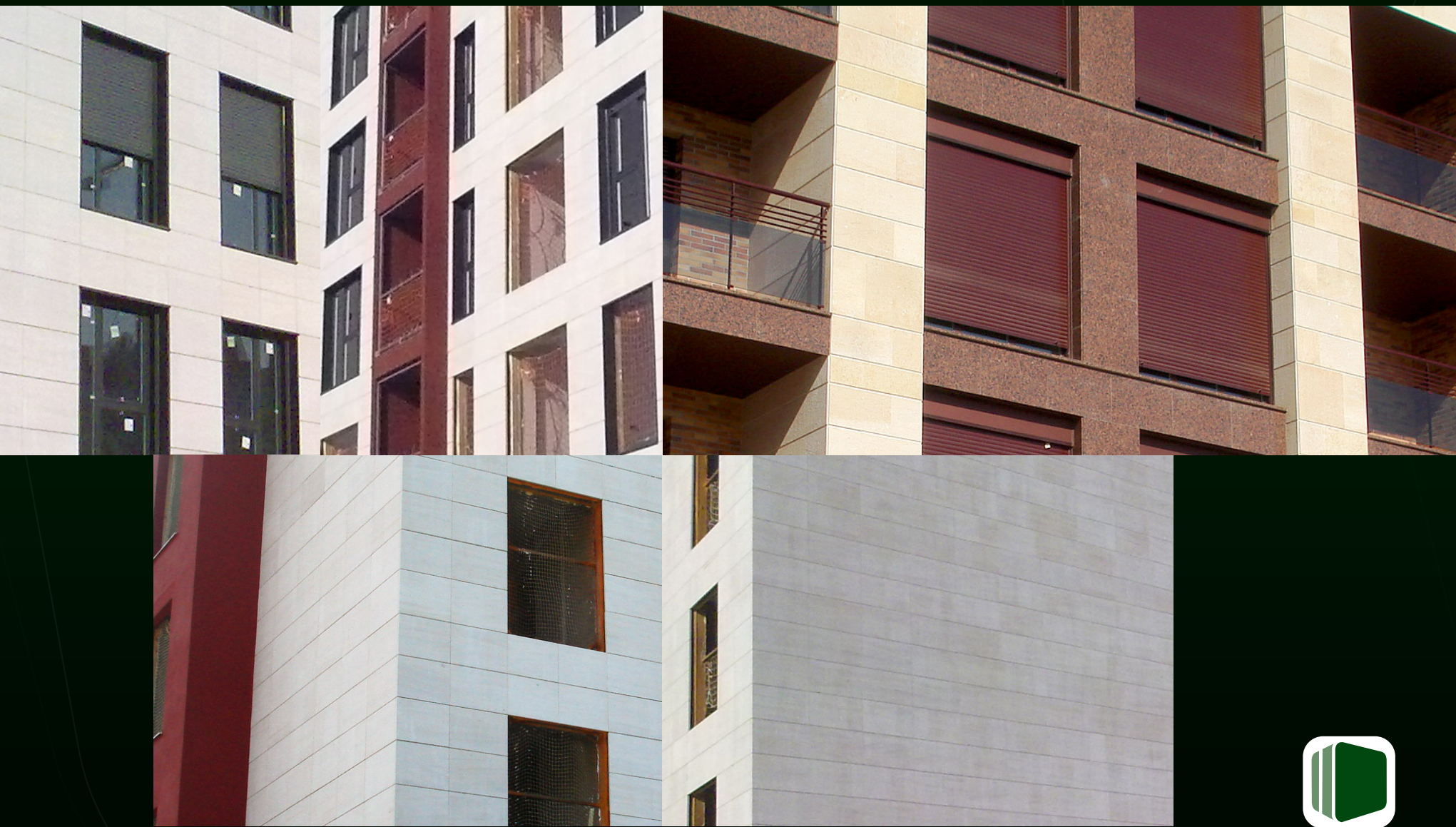
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SLOVAKIA



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SPAIN



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FRANCE



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