



GRUPPO BARDELLI S.P.A.

Via Giovanni Pascoli 4/6 20009 - Vittuone (MI) Italy Tel.: +39.02.90251844 P. IVA 09965410153 pec: gruppobardelli@legalmail.it Reg. Impr. MI 09965410153 Cap. soc. iv. Euro 10.256.016,00 www.gruppobardelli.com

Cerrione, January 2021

CONTRIBUTION TO OBTAINING CREDITS FOR LEED CERTIFICATION OF BUILDINGS

Ceramica Vogue products contribute to obtaining credits for LEED BD&C v 4 (LEED Building Design & Construction) system in the thematic areas listed here below.

Product Classification: Glazed ceramic tiles, dry pressed with low water absorption (0,5% < Eb \leq 3%) Group B1b - M - GL EN 14411:2016 H appendix

MR Credit	Description	Production					Point	
Sustainable	Sustainable Site – Heat	The Ceramica Vogue products do not contribute to change the energy balance of					1-2	
Site (SS)	Island Reduction (non	the environments where installed. They don't produce any Urban Heat Island						
, ,	roof)	Effect, tha	Effect, thanks to their very good physical properties. This encourages the external					
	,	use of these products for both open and covered spaces.						
		and sovered spaces.						
		SRI (Solar Reflectance Index) 0,78						
		(Product Ref. Vogue System Interni Ghiaccio – White)						
		Solar Reflectance index available for other plain colours						
		The thermal conductivity λ of Ceramica Vogue Product Range is 1,311 Watt/m·°K (ASTM E 1530:2006 – Product Ref. Ceramica Vogue System Interni).						
		For this rea	For this reason Vogue System is particulary indicated for heating floors systems.					
Materials &	Building Product	101 (11131)	ason vogac	System is particularly indica	ted for fleating floo	713 3y3tC1113.	1-2	
Resorurces	Disclosure and	Industry-w	ide (generia	c) FPD available			1 2	
(MR)		otimization –						
(14117)	Environmental Product							
	Declaration							
	Building Product	Ceramica \	Vogue nrodi	ucts are manufactured using	production cycles	that guarantee	1-2	
	Disclosure and		Ceramica Vogue products are manufactured using production cycles that guarantee excellence in terms of care and protection of the environment.					
	Optimization – Sourcing	Схеспенес	excellence in terms of care and protection of the environment.					
	of Raw Materials	Ceramica V	Ceramica Vogue tiles are produced using non-metallic inorganic raw materials in a					
	Of Naw Waterials	powdery state, such as clays, feldspar and sands. During the production, a sintering						
		I nowdery s	tate such a	s clave feldsnar and sands	During the product	ion a sintering		
		process oc	curs at high	temperature (higher than 1	000 °C) transformin	g powders into		
		process oc a solid ce	curs at high eramic obje	temperature (higher than 1 ct, partially crystalline an	000°C) transformin d partially amorph	g powders into		
		process oc a solid ce	curs at high eramic obje	temperature (higher than 1	000°C) transformin d partially amorph	g powders into		
		process oc a solid ce chemical c	curs at high eramic objection	temperature (higher than 1 ct, partially crystalline an reported in the table belov	000°C) transformind partially amorph	ng powders into nous, with the		
		process oc a solid ce chemical c	curs at high eramic objectomposition onts: Product	temperature (higher than 1 ct, partially crystalline an reported in the table below	000°C) transformind partially amorph /: Approx. Pero	ng powders into nous, with the cent by Weight		
		process oc a solid ce chemical c	curs at high eramic objectomposition hts: Product Compos	temperature (higher than 1 ct, partially crystalline an reported in the table belov sition	000°C) transformin d partially amorph v: Approx. Pero dependi	g powders into nous, with the cent by Weight ng on finishing		
		process oc a solid ce chemical c	curs at high eramic objectomposition hts: Product Composition	temperature (higher than 1 ct, partially crystalline an reported in the table below sition	000°C) transformind partially amorph /: Approx. Pero	g powders into nous, with the cent by Weight ng on finishing 20-25%	_	
		process oc a solid ce chemical c	curs at high eramic objectomposition hts: Product Compos	temperature (higher than 1 ct, partially crystalline an reported in the table below sition Clay Feldspar	000 °C) transformind partially amorph /: Approx. Pero dependi ES2824	g powders into nous, with the tent by Weight ng on finishing 20-25% 28-35%	-	
		process oc a solid ce chemical c	curs at high eramic objection composition hts: Product Compos Clay Feldspar	temperature (higher than 1 ct, partially crystalline an reported in the table below sition Clay Feldspar Cooked Ground Waste (*)	000 °C) transformind partially amorph /: Approx. Pero dependi ES2824	g powders into nous, with the cent by Weight ng on finishing 20-25% 28-35% 5-15%	-	
		process oc a solid ce chemical c	curs at high eramic objectomposition hts: Product Composition	temperature (higher than 1 ct, partially crystalline an reported in the table below sition Clay Feldspar Cooked Ground Waste (*) Sand	000 °C) transformind partially amorph /: Approx. Pero dependi ES2824 VVR	g powders into nous, with the cent by Weight ng on finishing 20-25% 28-35% 5-15% 5-15%	-	
		process oc a solid ce chemical c	curs at high eramic objection composition hts: Product Compos Clay Feldspar	temperature (higher than 1 ct, partially crystalline an reported in the table below sition Clay Feldspar Cooked Ground Waste (*) Sand Clay	000 °C) transformind partially amorph /: Approx. Pero dependi ES2824	g powders into hous, with the sent by Weight ng on finishing 20-25% 28-35% 5-15% 5-15%	-	
		process oc a solid ce chemical c	curs at high eramic obje- composition ats: Product Compos Clay Feldspar	temperature (higher than 1 ct, partially crystalline an reported in the table below sition Clay Feldspar Cooked Ground Waste (*) Sand Clay Raw Waste (*)	000 °C) transformind partially amorph v: Approx. Pero dependi ES2824 VVR FCS4	g powders into hous, with the sent by Weight ng on finishing 20-25% 28-35% 5-15% 5-15% 5-15%	-	
		process oc a solid ce chemical c	curs at high eramic objection composition hts: Product Compos Clay Feldspar	temperature (higher than 1 ct, partially crystalline an reported in the table below sition Clay Feldspar Cooked Ground Waste (*) Sand Clay	000 °C) transformind partially amorph v: Approx. Pero dependi ES2824 VVR FCS4	g powders into hous, with the sent by Weight ng on finishing 20-25% 28-35% 5-15% 5-15%	-	
		process oc a solid ce chemical c	curs at high eramic obje- composition ats: Product Compos Clay Feldspar	temperature (higher than 1 ct, partially crystalline an reported in the table below sition Clay Feldspar Cooked Ground Waste (*) Sand Clay Raw Waste (*)	000 °C) transformind partially amorph v: Approx. Pero dependi ES2824 VVR FCS4	g powders into hous, with the sent by Weight ng on finishing 20-25% 28-35% 5-15% 5-15% 5-15%	-	
		process oc a solid ce chemical c	curs at high eramic obje- composition ats: Product Compos Clay Feldspar	temperature (higher than 1 ct, partially crystalline an reported in the table below sition Clay Feldspar Cooked Ground Waste (*) Sand Clay Raw Waste (*)	000 °C) transformind partially amorph v: Approx. Pero dependi ES2824 VVR FCS4	g powders into nous, with the cent by Weight ng on finishing 20-25% 28-35% 5-15% 5-15% 5-15% 100%	-	
		process oc a solid ce chemical c	curs at high eramic objection omposition hts: Product Compos Clay Feldspar Inert	temperature (higher than 1 ct, partially crystalline an reported in the table below sition Clay Feldspar Cooked Ground Waste (*) Sand Clay Raw Waste (*) Recycled water	000 °C) transformind partially amorph v: Approx. Pero dependi ES2824 VVR FCS4	g powders into hous, with the sent by Weight ng on finishing 20-25% 28-35% 5-15% 5-15% 5-15% 5-15% 100%	-	
		process oc a solid ce chemical c	curs at high eramic objection omposition hts: Product Compos Clay Feldspar Inert	temperature (higher than 1 ct, partially crystalline an reported in the table below sition Clay Feldspar Cooked Ground Waste (*) Sand Clay Raw Waste (*) Recycled water	000 °C) transformind partially amorph v: Approx. Pero dependi ES2824 VVR FCS4	g powders into nous, with the cent by Weight ng on finishing 20-25% 28-35% 5-15% 5-15% 5-15% 100%		
		process oc a solid ce chemical c	curs at high eramic objection omposition hts: Product Compos Clay Feldspar Inert	temperature (higher than 1 ct, partially crystalline an reported in the table below sition Clay Feldspar Cooked Ground Waste (*) Sand Clay Raw Waste (*) Recycled water Engobe Frit	000 °C) transformind partially amorph v: Approx. Pero dependi ES2824 VVR FCS4	g powders into nous, with the sent by Weight ng on finishing 20-25% 28-35% 5-15% 5-15% 5-15% 100% 10-90%		
		process oc a solid ce chemical c	curs at high eramic objection omposition hts: Product Compos Clay Feldspar Inert	temperature (higher than 1 ct, partially crystalline an reported in the table below sition Clay Feldspar Cooked Ground Waste (*) Sand Clay Raw Waste (*) Recycled water Engobe Frit Glaze Compounds	000 °C) transformind partially amorph v: Approx. Pero dependi ES2824 VVR FCS4	g powders into hous, with the sent by Weight ag on finishing 20-25% 28-35% 5-15% 5-15% 5-15% 100% 10-90% 100%		
		process oc a solid ce chemical c Constituer	curs at high ramic objection rats: Product Composition Clay Feldspar Inert Water Engobe	temperature (higher than 1 ct, partially crystalline an reported in the table below sition Clay Feldspar Cooked Ground Waste (*) Sand Clay Raw Waste (*) Recycled water Engobe Frit Glaze Compounds Feldspar	000 °C) transformind partially amorph /: Approx. Pero dependi ES2824 VVR FCS4	g powders into hous, with the sent by Weight ng on finishing 20-25% 28-35% 5-15% 5-15% 5-15% 100% 10-90% 100% 30-40%		
		process oc a solid ce chemical c	curs at high eramic objection omposition hts: Product Compos Clay Feldspar Inert	temperature (higher than 1 ct, partially crystalline an reported in the table below sition Clay Feldspar Cooked Ground Waste (*) Sand Clay Raw Waste (*) Recycled water Engobe Frit Glaze Compounds Feldspar Calcium Carbonate	OOO °C) transformind partially amorph /: Approx. Pero dependi ES2824 VVR FCS4 CaCO3	g powders into hous, with the sent by Weight ng on finishing 20-25% 28-35% 5-15% 5-15% 5-15% 100% 10-90% 100% 10-90% 10-90% 10-90% 10-20%		
		process oc a solid ce chemical c Constituer	curs at high ramic objection rats: Product Composition Clay Feldspar Inert Water Engobe	temperature (higher than 1 ct, partially crystalline an reported in the table below sition Clay Feldspar Cooked Ground Waste (*) Sand Clay Raw Waste (*) Recycled water Engobe Frit Glaze Compounds Feldspar Calcium Carbonate Zirconium Zinc Oxide	OOO °C) transformind partially amorph Approx. Pero dependi ES2824 VVR FCS4 CaCO3 ZrO2 ZnO2	g powders into hous, with the sent by Weight ng on finishing 20-25% 28-35% 5-15% 5-15% 5-15% 100% 10-90% 100% 30-40% 10-20% 5-10% 3-8%		
		process oc a solid ce chemical c Constituer	curs at high ramic objection rats: Product Composition Clay Feldspar Inert Water Engobe	temperature (higher than 1 ct, partially crystalline an reported in the table below sition Clay Feldspar Cooked Ground Waste (*) Sand Clay Raw Waste (*) Recycled water Engobe Frit Glaze Compounds Feldspar Calcium Carbonate Zirconium Zinc Oxide Alumina	OOO °C) transformind partially amorph Approx. Pero dependi ES2824 VVR FCS4 CaCO3 ZrO2	g powders into hous, with the sent by Weight ng on finishing 20-25% 28-35% 5-15% 5-15% 5-15% 5-15% 100% 10-90% 100% 30-40% 10-20% 5-10% 3-8% 6-10%		
		process oc a solid ce chemical c Constituer	curs at high ramic objection rats: Product Composition Clay Feldspar Inert Water Engobe	temperature (higher than 1 ct, partially crystalline an reported in the table below sition Clay Feldspar Cooked Ground Waste (*) Sand Clay Raw Waste (*) Recycled water Engobe Frit Glaze Compounds Feldspar Calcium Carbonate Zirconium Zinc Oxide	OOO °C) transformind partially amorph Approx. Pero dependi ES2824 VVR FCS4 CaCO3 ZrO2 ZnO2	g powders into hous, with the sent by Weight ng on finishing 20-25% 28-35% 5-15% 5-15% 5-15% 100% 10-90% 100% 30-40% 10-20% 5-10% 3-8%		







GRUPPO BARDELLI S.P.A.

Via Giovanni Pascoli 4/6 20009 - Vittuone (MI) Italy Tel.: +39.02.90251844 P. IVA 09965410153 pec: gruppobardelli@legalmail.it Reg. Impr. MI 09965410153 Cap. soc. iv. Euro 10.256.016,00 www.gruppobardelli.com

			(*) Ceramica Vogue products are manufactured using recycled products as here below reported. Pre-Consumer Recycled Content Up to 30% (% per mass unit) Post-Consumer Recycled Content 0% (% per mass unit) Total Recycled Content Up to 30% (% per mass unit)			
		Building Product Disclosure and Optimization – Sourcing of Raw Materials	Production Plant: Ceramica Vogue - Via Papa Giovanni XXIII, 100 - Loc. Vergnasco 13882 Cerrione (BI) – Italy Raw Materials sourcing origin: 1. 40% of Ceramica Vogue raw materials are quarried in a 100 miles radius. 2. 60% of Ceramica Vogue raw materials coming from a distance > 100 miles from the production plant			
		Construction and Demolition Waste Management - Reduction of total waste material	The type of waste material expected to occur from the use of Ceramica Vogue tiles includes off cut materials and packaging. The packaging of Ceramica Vogue products is environmentally sustainable as it is totally recyclable. The Amount of non-hazardous waste (Cardboard box) expected per product unit based on mass is 6,05 kg/ton Amount of non-hazardous waste (Cardboard box) that can be recycled/reused is 6,05kg/ton	1-2		
1	Low- Emitting Materials (IEQ)	Indoor Environmental Quality - Low-Emitting Materials	Ceramica Vogue products do not emit any VOC (Volatile Organic Compounds). No traces of VOC have been reckoned from the qualified external laboratories that examined our materials Third Party Certification Available: UL 2818 – 2013 Gold Standards for Chemical Emissions for building Materials, Finishes and Furnishings.	1-3		

Best Regards

Ceramica Vogue



