



Opinion Statement

Water Footprint

Verification Opinion Statement

This is to verify that:

Taiwan Cement Corporation No. 113, Sec. 2, Zhongshan N. Rd. Zhongshan Dist., Taipei City 104414 Taiwan

臺灣水泥股份有限公司 臺灣 台北市中山區 中山北路二段 113 號 104414

Holds Statement No:

WFV 782665

Verification opinion statement

As a result of carrying out the verification of water footprint assessment, it is the opinion of BSI with reasonable assurance that:

- This verification is according to the water scarcity footprint assessment report of Taiwan Cement Corporation.
- The system boundary is defined as a product.
- The functional unit is defined as one cubic meter of ready-mix concrete (每立方米預拌混凝土).
- No material misstatements in this ISO 14046:2014 assertion was revealed.

The data quality of product water scarcity footprint assessment was verified to be acceptable against the requirements of ISO 14046:2014.

This statement shall be valid for a maximum period of two years after the latest issue date on this certificate. Should there be a change in the life cycle of the water footprint are being assessed, the validity of this opinion statement will cease.

For and on behalf of BSI:

Managing Director BSI Taiwan, Peter Pu

Originally Registration Date: 2023-03-16

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Page: 1 of 26 ...making excellence a habit.

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Taiwan Cement Corporation No. 113, Sec. 2, Zhongshan N. Rd. Zhongshan Dist., Taipei City 104414 Taiwan 臺灣水泥股份有限公司 臺灣 台北市中山區 中山北路二段 113 號 104414 Verification Information

This verification is according to the water scarcity footprint assessment report of Taiwan Cement Corporation.

The water scarcity footprint assessment declaration and other related information are as follows:

- The water scarcity footprint assessment with functional unit declaration is verified as following table.
- System boundary for this product: Cradle to Gate
- The product system boundary is consistent with its system boundary definition in the water scarcity footprint assessment report, which involves the acquisition of materials, transportation of raw materials, and process activity in the product life cycle.
- The inventory data in this water scarcity footprint assessment report is from 2021-01-01 to 2021-12-31.
- The primary activity data include related facilities from its own processes under the operational control of the organization, including Taipei, Taichung, Kaohsiung Cement Products Plants and their branch plants under the Taiwan Cement Co., Ltd. (臺灣水泥股份有限公司轄下台北、台中、高雄水泥製品廠及其分廠).
- The secondary data include relative factors from public sources and LCA software SimaPro 9.4.0, Ecoinvent 3.8 with the qualification methodology for water scarcity indicator by using Hoekstra et al 2012 (Water Scarcity) V1.04 approach.

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Taipei Cement Products Plant, Taiwan Cement Corporation No. 310, Sec. 1, Datong Rd., Xizhi Dist., New Taipei City 221006, Taiwan 台灣水泥股份有限公司台北水泥製品廠 221006 新北市汐止區大同路一段310 號

Wa	Water withdrawal		Water scarcity indicator				
Resource Type	Quantities	Unit	Functional Unit of Product	Specification	Quantities	Unit	
				1000 psi	2.943	M ³ H ₂ Oeq/M ³	
				1142 psi	3.149	M ³ H ₂ Oeq/M ³	
				1500 psi	3.125	M ³ H ₂ Oeq/M ³	
				2000 psi	3.054	M ³ H ₂ Oeq/M ³	
			每立方公尺預拌混凝土	2500 psi	3.042	M ³ H ₂ Oeq/M ³	
		M ³ /Year		3000 psi	3.040	M ³ H ₂ Oeq/M ³	
Tap water	49,899.97			3500 psi	3.056	M ³ H ₂ Oeq/M ³	
Tap water	49,099.97		one cubic meter ready- mixed concrete	4000 psi	3.040	M ³ H ₂ Oeq/M ³	
				4500 psi	3.006	M ³ H ₂ Oeq/M ³	
				5000 psi	3.023	M ³ H ₂ Oeq/M ³	
				6000 psi	3.006	M ³ H ₂ Oeq/M ³	
				7000 psi	3.034	M ³ H ₂ Oeq/M ³	
				8000 psi	3.042	M ³ H ₂ Oeq/M ³	
				10000 psi	3.162	M ³ H ₂ Oeq/M ³	

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Taoyuan Branch, Taipei Cement Products Plant, Taiwan Cement Corporation No. 220, Sec. 2, Nanshan Rd., Luzhu Dist., Taoyuan City 338020, Taiwan 台灣水泥股份有限公司台北水泥製品廠桃園分廠 338020 桃園市蘆竹區南山路二段 220 號

Water withdrawal		Water scarcity indicator				
Resource Type	Quantities	Unit	Functional Unit of Product	Specification	Quantities	Unit
				1500psi	3.000	M ³ H ₂ Oeq/M ³
				2000psi	2.959	M ³ H ₂ Oeq/M ³
Tap water	11,086.00			2500psi	2.984	M ³ H ₂ Oeq/M ³
Tap water	11,000.00	M ³ /Year		3000psi	2.953	M ³ H ₂ Oeq/M ³
			每立方公尺預拌混凝土 one cubic meter ready-	3500psi	2.887	M ³ H ₂ Oeq/M ³
				4000psi	2.964	M ³ H ₂ Oeq/M ³
			mixed concrete	4500psi	3.039	M ³ H ₂ Oeq/M ³
				5000psi	2.958	M ³ H ₂ Oeq/M ³
Groundwater	27,231.50			6000psi	2.987	M ³ H ₂ Oeq/M ³
				7000psi	3.009	M ³ H ₂ Oeq/M ³
				8000psi	3.033	M ³ H ₂ Oeq/M ³

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Zhongli Branch, Taipei Cement Products Plant, Taiwan Cement Corporation No. 203, Sec. 6, Minzu Rd., Xinwu Dist., Taoyuan City 327001, Taiwan" 台灣水泥股份有限公司台北水泥製品廠中壢分廠 327001 桃園市新屋區民族路六段 203 號

Water withdrawal		Water scarcity indicator				
Resource Type	Quantities	Unit	Functional Unit of Product	Specification	Quantities	Unit
				1142psi	3.132	M ³ H ₂ Oeq/M ³
				1500psi	3.127	M ³ H ₂ Oeq/M ³
Tap water	1,187.00			2000psi	3.129	M ³ H ₂ Oeq/M ³
Tap water	1,107.00	• M³/Year	每立方公尺預拌混凝土 one cubic meter ready- mixed concrete	2500psi	3.094	M ³ H ₂ Oeq/M ³
				3000psi	3.146	M ³ H ₂ Oeq/M ³
				3500psi	3.129	M ³ H ₂ Oeq/M ³
				4000psi	3.114	M ³ H ₂ Oeq/M ³
				4500psi	3.164	M ³ H ₂ Oeq/M ³
Groundwater	57,198.08			5000psi	3.098	M ³ H ₂ Oeq/M ³
Giounuwater	57,190.00			6000psi	3.121	M ³ H ₂ Oeq/M ³
				7000psi	3.136	$M^{3}H_{2}Oeq/M^{3}$
				8000psi	3.140	$M^{3}H_{2}Oeq/M^{3}$

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Tucheng Branch, Taipei Cement Products Plant, Taiwan Cement Corporation No. 4, Ln. 233, Sec. 3, Jieshou Rd., Sanxia Dist., New Taipei City 237008, Taiwan 台灣水泥股份有限公司台北水泥製品廠土城分廠 237008 新北市三峽區介壽路三段 233 巷 4 號

Wat	Water withdrawal		Water scarcity indicator				
Resource Type	Quantities	Unit	Functional Unit of Product	Specification	Quantities	Unit	
				1500psi	2.885	M ³ H ₂ Oeq/M ³	
				2000psi	3.003	M ³ H ₂ Oeq/M ³	
				2500psi	3.020	M ³ H ₂ Oeq/M ³	
				3000psi	3.043	M ³ H ₂ Oeq/M ³	
			每立方公尺預拌混凝土	3500psi	3.016	M ³ H ₂ Oeq/M ³	
Tap water	32,610.72	M ³ /Year	one cubic meter ready-	4000psi	2.991	M ³ H ₂ Oeq/M ³	
			mixed concrete	4500psi	3.022	$M^{3}H_{2}Oeq/M^{3}$	
				5000psi	2.977	M ³ H ₂ Oeq/M ³	
				6000psi	2.983	$M^{3}H_{2}Oeq/M^{3}$	
				7000psi	2.962	M ³ H ₂ Oeq/M ³	
				8000psi	3.109	$M^{3}H_{2}Oeq/M^{3}$	

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Wat	er withdrawal		Water scarcity indicator				
Resource Type	Quantities	Unit	Functional Unit of Product	Specification	Quantities	Unit	
				1500psi	2.960	M ³ H ₂ Oeq/M ³	
				2000psi	2.935	M ³ H ₂ Oeq/M ³	
Tap water	266.00	M ³ /Year	每立方公尺預拌混凝土 one cubic meter ready- mixed concrete	2500psi	2.942	M ³ H ₂ Oeq/M ³	
				3000psi	2.979	M ³ H ₂ Oeq/M ³	
				3500psi	2.975	M ³ H ₂ Oeq/M ³	
		M ^o /Teal		4000psi	2.938	M ³ H ₂ Oeq/M ³	
				4500psi	2.954	M ³ H ₂ Oeq/M ³	
Groundwater	29,940.07			5000psi	2.955	M ³ H ₂ Oeq/M ³	
				6000psi	2.931	M ³ H ₂ Oeq/M ³	
				7000psi	2.995	M ³ H ₂ Oeq/M ³	

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Guishan Branch, Taipei Cement Products Plant, Taiwan Cement Corporation No. 688, Dongwanshou Rd., Guishan Dist., Taoyuan City 333031, Taiwan 台灣水泥股份有限公司台北水泥製品廠龜山分廠 333031 桃園市龜山區龍壽里東萬壽路 688 號

Wat	Water withdrawal		Water scarcity indicator				
Resource Type	Quantities	Unit	Functional Unit of Product	Specification	Quantities	Unit	
				1000psi	3.073	M ³ H ₂ Oeq/M ³	
				1500psi	3.072	M ³ H ₂ Oeq/M ³	
				2000psi	3.168	M ³ H ₂ Oeq/M ³	
			每立方公尺預拌混凝土 one cubic meter ready- mixed concrete	2500psi	3.067	M ³ H ₂ Oeq/M ³	
		M ³ /Year		3000psi	3.137	M ³ H ₂ Oeq/M ³	
Tap water	36,945.50			3500psi	3.081	M ³ H ₂ Oeq/M ³	
Tap water	50,545.50	Mr/Tear		4000psi	3.070	M ³ H ₂ Oeq/M ³	
				4500psi	3.132	M ³ H ₂ Oeq/M ³	
				5000psi	3.077	M ³ H ₂ Oeq/M ³	
				6000psi	3.063	M ³ H ₂ Oeq/M ³	
				7000psi	3.157	M ³ H ₂ Oeq/M ³	
				8000psi	3.105	M ³ H ₂ Oeq/M ³	

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Wat	Water withdrawal		Water scarcity indicator				
Resource Type	Quantities	Unit	Functional Unit of Product	Specification	Quantities	Unit	
				1500psi	2.858	M ³ H ₂ Oeq/M ³	
				2000psi	2.889	M ³ H ₂ Oeq/M ³	
Tap water	400.61			2500psi	2.980	M ³ H ₂ Oeq/M ³	
Tap water	400.01	M ³ /Year		3000psi	2.930	M ³ H ₂ Oeq/M ³	
			每立方公尺預拌混凝土 one cubic meter ready- mixed concrete	3500psi	2.882	M ³ H ₂ Oeq/M ³	
				4000psi	2.883	M ³ H ₂ Oeq/M ³	
				4500psi	2.839	M ³ H ₂ Oeq/M ³	
				5000psi	2.879	M ³ H ₂ Oeq/M ³	
Groundwater	38,526.00			6000psi	2.841	M ³ H ₂ Oeq/M ³	
				7000psi	2.884	M ³ H ₂ Oeq/M ³	
				8000psi	2.930	$M^{3}H_{2}Oeq/M^{3}$	

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Yilan Branch, Taipei Cement Products Plant, Taiwan Cement Corporation No. 438, Sec. 2, Yuanshan Rd., Yuanshan Township, Yilan County 264033, Taiwan 台灣水泥股份有限公司台北水泥製品廠宜蘭分廠 264033 宜蘭縣員山鄉員山路二段438 號

Wat	er withdrawal		Water scarcity indicator				
Resource Type	Quantities	Unit	Functional Unit of Product	Specification	Quantities	Unit	
				1000psi	2.991	M ³ H ₂ Oeq/M ³	
				1500psi	3.015	M ³ H ₂ Oeq/M ³	
Tap water	1,176.60	M ³ /Voor	每立方公尺預拌混凝土 one cubic meter ready- mixed concrete	2000psi	3.120	M ³ H ₂ Oeq/M ³	
				2500psi	3.072	M ³ H ₂ Oeq/M ³	
				3000psi	3.068	M ³ H ₂ Oeq/M ³	
		M ³ /Year		3500psi	3.042	M ³ H ₂ Oeq/M ³	
				4000psi	3.084	M ³ H ₂ Oeq/M ³	
Groundwater	28,831.00			4500psi	3.048	M ³ H ₂ Oeq/M ³	
				5000psi	3.115	M ³ H ₂ Oeq/M ³	
				6000psi	3.099	M ³ H ₂ Oeq/M ³	

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Wat	Water withdrawal		Water scarcity indicator				
Resource Type	Quantities	Unit	Functional Unit of Product	Specification	Quantities	Unit	
				1142psi	3.141	M ³ H ₂ Oeq/M ³	
				2000psi	3.161	M ³ H ₂ Oeq/M ³	
				2500psi	3.133	M ³ H ₂ Oeq/M ³	
				3000psi	3.189	M ³ H ₂ Oeq/M ³	
			每立方公尺預拌混凝土	3500psi	3.210	M ³ H ₂ Oeq/M ³	
Tap water	34,797.72	M ³ /Year	one cubic meter ready-	4000psi	3.191	M ³ H ₂ Oeq/M ³	
			mixed concrete	4500psi	3.177	M ³ H ₂ Oeq/M ³	
				5000psi	3.174	M ³ H ₂ Oeq/M ³	
				6000psi	3.185	M ³ H ₂ Oeq/M ³	
				7000psi	3.177	M ³ H ₂ Oeq/M ³	
				8000psi	3.321	$M^{3}H_{2}Oeq/M^{3}$	

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Water withdrawal		Water scarcity indicator				
Resource Type	Quantities	Unit	Functional Unit of Product	Specification	Quantities	Unit
				2000psi	3.153	M ³ H ₂ Oeq/M ³
				2500psi	3.156	M ³ H ₂ Oeq/M ³
Tap water	109.53			3000psi	3.206	M ³ H ₂ Oeq/M ³
			每立方公尺預拌混凝土	3500psi	3.173	M ³ H ₂ Oeq/M ³
		M ³ /Year	one cubic meter ready-	4000psi	3.133	M ³ H ₂ Oeq/M ³
			mixed concrete	4500psi	3.109	M ³ H ₂ Oeq/M ³
Groundwater	30,980.24			5000psi	3.157	M ³ H ₂ Oeq/M ³
Giounuwater	50,900.24			6000psi	3.177	M ³ H ₂ Oeq/M ³
				7000psi	3.138	M ³ H ₂ Oeq/M ³

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Hualien Concrete Mixed Plant, Taiwan Cement Corporation No. 3, Meigong 5th St., Hualien City, Hualien County 970024, Taiwan 台灣水泥股份有限公司花蓮預拌混凝土工場 970024 花蓮縣花蓮市美工五街 3 號

Wat	er withdrawal		Water scarcity indicator				
Resource Type	Quantities	Unit	Functional Unit of Product	Specification	Quantities	Unit	
				2000psi	3.050	M ³ H ₂ Oeq/M ³	
Tap water	201.42	M ³ /Year		2500psi	3.069	M ³ H ₂ Oeq/M ³	
Tap water			每立方公尺預拌混凝土	3000psi	3.101	M ³ H ₂ Oeq/M ³	
			one cubic meter ready-	3500psi	3.094	M ³ H ₂ Oeq/M ³	
		,	mixed concrete	4000psi	3.101	M ³ H ₂ Oeq/M ³	
Groundwater	5,285.17			5000psi	3.026	M ³ H ₂ Oeq/M ³	
				6000psi	2.798	M ³ H ₂ Oeq/M ³	

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Wa	ter withdrawal		Water scarcity indicator			
Resource Type	Quantities	Unit	Functional Unit of Product	Specification	Quantities	Unit
				1000psi	2.789	M ³ H ₂ Oeq/M ³
				1500psi	2.846	M ³ H ₂ Oeq/M ³
				2000psi	2.858	M ³ H ₂ Oeq/M ³
Tap water	4,664.29			2500psi	2.831	M ³ H ₂ Oeq/M ³
		M ³ /Year	每立方公尺預拌混凝土	3000psi	2.840	M ³ H ₂ Oeq/M ³
				3500psi	2.808	M ³ H ₂ Oeq/M ³
				4000psi	2.829	M ³ H ₂ Oeq/M ³
		M'/Tear	one cubic meter ready- mixed concrete	4500psi	2.760	M ³ H ₂ Oeq/M ³
				5000psi	2.784	M ³ H ₂ Oeq/M ³
				6000psi	2.857	M ³ H ₂ Oeq/M ³
Groundwater	12,542.00			6500psi	2.790	M ³ H ₂ Oeq/M ³
				7000psi	2.817	$M^{3}H_{2}Oeq/M^{3}$
				8000psi	2.824	M ³ H ₂ Oeq/M ³
				10000psi	2.986	$M^{3}H_{2}Oeq/M^{3}$

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Taichung Cement Products Plant, Taiwan Cement Corporation - Dadu Branch No. 303, Sec. 2, Shatian Rd., Dadu Dist., Taichung City 432011, Taiwan 台灣水泥股份有限公司台中水泥製品廠-大肚分廠 432011 台中市大肚區新興里沙田路二段303 號

Wa	ter withdrawal		Water scarcity indicator			
Resource Type	Quantities	Unit	Functional Unit of Product	Specification	Quantities	Unit
				1000psi	3.333	M ³ H ₂ Oeq/M ³
				1500psi	3.273	M ³ H ₂ Oeq/M ³
				2000psi	3.393	M ³ H ₂ Oeq/M ³
Tap water	7,832.18	M ³ /Year	每立方公尺預拌混凝土	2500psi	3.376	M ³ H ₂ Oeq/M ³
				3000psi	3.310	M ³ H ₂ Oeq/M ³
				3500psi	3.333	M ³ H ₂ Oeq/M ³
			one cubic meter ready- mixed concrete	4000psi	3.369	M ³ H ₂ Oeq/M ³
				4500psi	3.260	M ³ H ₂ Oeq/M ³
				5000psi	3.278	M ³ H ₂ Oeq/M ³
Groundwater	67,874.00			6000psi	3.415	M ³ H ₂ Oeq/M ³
				7000psi	3.388	M ³ H ₂ Oeq/M ³
				8000psi	3.374	$M^{3}H_{2}Oeq/M^{3}$

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Taichung Cement Products Plant, Taiwan Cement Corporation - Taiping Branch No. 120, Sec. 2, Yongping Rd., Taiping Dist., Taichung City 411004, Taiwan 台灣水泥股份有限公司台中水泥製品廠-太平分廠 411004 台中市太平區中興里永平路二段120 號

Wa	ter withdrawal		Water scarcity indicator				
Resource Type	Quantities	Unit	Functional Unit of Product	Specification	Quantities	Unit	
				1000psi	2.778	M ³ H ₂ Oeq/M ³	
				1500psi	2.731	M ³ H ₂ Oeq/M ³	
				2000psi	2.842	M ³ H ₂ Oeq/M ³	
			每立方公尺預拌混凝土 /Year one cubic meter ready- mixed concrete	2500psi	2.756	M ³ H ₂ Oeq/M ³	
				3000psi	2.764	M ³ H ₂ Oeq/M ³	
Groundwater	10,649.63	M ³ /Voar		3500psi	2.746	$M^{3}H_{2}Oeq/M^{3}$	
Giounuwater	10,049.05	Mr/Tear		4000psi	2.764	M ³ H ₂ Oeq/M ³	
			Inixed concrete	4500psi	2.710	$M^{3}H_{2}Oeq/M^{3}$	
				5000psi	2.706	M ³ H ₂ Oeq/M ³	
				6000psi	2.771	M ³ H ₂ Oeq/M ³	
				7000psi	2.740	$M^{3}H_{2}Oeq/M^{3}$	
				8000psi	2.769	M ³ H ₂ Oeq/M ³	

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Taichung Cement Products Plant, Taiwan Cement Corporation - Caotun Branch No. 137, Renhe Rd., Nantou City, Nantou County 540027, Taiwan 台灣水泥股份有限公司台中水泥製品廠-草屯分廠 540027 南投縣南投市平山里仁和路137 號

Water withdrawal			Water scarcity indicator				
Resource Type	Quantities	Unit	Functional Unit of Product	Specification	Quantities	Unit	
				2000psi	3.202	M ³ H ₂ Oeq/M ³	
Tap water	222.34	M ³ /Year		2500psi	3.160	M ³ H ₂ Oeq/M ³	
Tap water			每立方公尺預拌混凝土	3000psi	3.166	M ³ H ₂ Oeq/M ³	
			one cubic meter ready-	3500psi	3.137	M ³ H ₂ Oeq/M ³	
			mixed concrete	4000psi	3.131	M ³ H ₂ Oeq/M ³	
Groundwater	14,232.00			5000psi	3.050	M ³ H ₂ Oeq/M ³	
				6000psi	3.053	M ³ H ₂ Oeq/M ³	

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Taichung Cement Products Plant, Taiwan Cement Corporation - Shengang Branch No. 502, Xizhou Rd., Shengang Dist., Taichung City 429008, Taiwan 台灣水泥股份有限公司台中水泥製品廠-神岡分廠 429008 台中市神岡區溪洲里溪洲路502 號

Wa	ter withdrawal			Water scarcity in	dicator	
Resource Type	Quantities	Unit	Functional Unit of Product	Specification	Quantities	Unit
				1000psi	2.805	M ³ H ₂ Oeq/M ³
				1500psi	2.714	M ³ H ₂ Oeq/M ³
				2000psi	2.609	M ³ H ₂ Oeq/M ³
				2500psi	2.769	M ³ H ₂ Oeq/M ³
			每立方公尺預拌混凝土	3000psi	2.801	M ³ H ₂ Oeq/M ³
		M ³ /Year		3500psi	2.791	M ³ H ₂ Oeq/M ³
Groundwater	10,965.51			4000psi	2.775	M ³ H ₂ Oeq/M ³
Giounawater	10,905.51	M / Teal	one cubic meter ready- mixed concrete	4500psi	2.710	M ³ H ₂ Oeq/M ³
			mixed concrete	5000psi	2.744	M ³ H ₂ Oeq/M ³
				5500psi	2.742	M ³ H ₂ Oeq/M ³
				6000psi	2.773	M ³ H ₂ Oeq/M ³
				7000psi	2.873	M ³ H ₂ Oeq/M ³
				8000psi	2.846	$M^{3}H_{2}Oeq/M^{3}$
				10000psi	3.098	M ³ H ₂ Oeq/M ³

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Kaohsiung Cement Products Plant, Taiwan Cement Corporation No.16, Gongye 1st Rd., Renwu Dist., Kaohsiung City 814036, Taiwan 台灣水泥股份有限公司高雄水泥製品廠 814036 高雄市仁武區工業一路16 號

Wat	er withdrawal		Water scarcity indicator				
Resource Type	Quantities	Unit	Functional Unit of Product	Specification	Quantities	Unit	
				1500psi	2.921	M ³ H ₂ Oeq/M ³	
				2000psi	2.961	M ³ H ₂ Oeq/M ³	
Tap water	14,564.21			2500psi	2.993	M ³ H ₂ Oeq/M ³	
Tap water	17,307.21			3000psi	2.957	M ³ H ₂ Oeq/M ³	
			每立方公尺預拌混凝土	3500psi	2.957	M ³ H ₂ Oeq/M ³	
		M ³ /Year	one cubic meter ready-	4000psi	2.942	M ³ H ₂ Oeq/M ³	
			mixed concrete	4500psi	2.960	M ³ H ₂ Oeq/M ³	
				5000psi	2.970	M ³ H ₂ Oeq/M ³	
Groundwater	6,426.00			6000psi	2.933	M ³ H ₂ Oeq/M ³	
				7000psi	2.928	M ³ H ₂ Oeq/M ³	
				8000psi	3.076	M ³ H ₂ Oeq/M ³	

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Kaohsiung Cement Products Plant, Taiwan Cement Corporation - Nanzi Plant No.99-1, Gaonan Rd., Renwu Dist., Kaohsiung City 814032, Taiwan 台灣水泥股份有限公司高雄水泥製品廠-楠梓分廠 814032 高雄市仁武區高楠公路 99-1 號

Wa	Water withdrawal		Water scarcity indicator				
Resource Type	Quantities	Unit	Functional Unit of Product	Specification	Quantities	Unit	
				1500psi	2.889	M ³ H ₂ Oeq/M ³	
				2000psi	3.052	M ³ H ₂ Oeq/M ³	
				2500psi	3.015	M ³ H ₂ Oeq/M ³	
Tap water	1,509.54			3000psi	2.967	M ³ H ₂ Oeq/M ³	
		M ³ /Year		3500psi	2.980	M ³ H ₂ Oeq/M ³	
			每立方公尺預拌混凝土 one cubic meter ready-	4000psi	2.961	M ³ H ₂ Oeq/M ³	
				4500psi	2.956	M ³ H ₂ Oeq/M ³	
			mixed concrete	5000psi	2.978	M ³ H ₂ Oeq/M ³	
				5500psi	2.865	M ³ H ₂ Oeq/M ³	
Croundwater	20,123.76			6000psi	2.888	$M^{3}H_{2}Oeq/M^{3}$	
Groundwater	20,123.70			7000psi	2.898	M ³ H ₂ Oeq/M ³	
				8000psi	3.105	$M^{3}H_{2}Oeq/M^{3}$	
				10000psi	2.958	M ³ H ₂ Oeq/M ³	

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Kaohsiung Cement Products Plant, Taiwan Cement Corporation - Xiaogang Plant No.12, Zhonglin Rd., Xiaogang Dist., Kaohsiung City 812039, Taiwan 台灣水泥股份有限公司高雄水泥製品廠-小港分廠 812039 高雄市小港區中林路 12 號

Wat	Water withdrawal		Water scarcity indicator				
Resource Type	Quantities	Unit	Functional Unit of Product	Specification	Quantities	Unit	
				1500psi	2.913	$M^{3}H_{2}Oeq/M^{3}$	
				2000psi	3.032	M ³ H ₂ Oeq/M ³	
			每立方公尺預拌混凝土	2500psi	2.996	M ³ H ₂ Oeq/M ³	
		M ³ /Year		3000psi	2.989	$M^{3}H_{2}Oeq/M^{3}$	
Tap water	13,716.55			3500psi	2.973	M ³ H ₂ Oeq/M ³	
Tap water	13,/10.55	M ^e / real	one cubic meter ready- mixed concrete	4000psi	2.988	M ³ H ₂ Oeq/M ³	
				4500psi	2.925	M ³ H ₂ Oeq/M ³	
				5000psi	2.987	M ³ H ₂ Oeq/M ³	
				6000psi	2.925	M ³ H ₂ Oeq/M ³	
				7000psi	2.862	M ³ H ₂ Oeq/M ³	

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Kaohsiung Cement Products Plant, Taiwan Cement Corporation - Luzhu Plant No.809, Daren Rd., Luzhu Dist., Kaohsiung City 821004, Taiwan 台灣水泥股份有限公司高雄水泥製品廠-路竹分廠 821004 高雄市路竹區大仁路 809 號

Wat	er withdrawal		Water scarcity indicator			
Resource Type	Quantities	Unit	Functional Unit of Product	Specification	Quantities	Unit
				1500psi	2.856	M ³ H ₂ Oeq/M ³
				2000psi	3.069	M ³ H ₂ Oeq/M ³
Tap water	7,351.52	M3/Voor	每立方公尺預拌混凝土 one cubic meter ready- mixed concrete	2500psi	3.104	M ³ H ₂ Oeq/M ³
				3000psi	3.057	M ³ H ₂ Oeq/M ³
				3500psi	3.066	M ³ H ₂ Oeq/M ³
		M ³ /Year		4000psi	3.075	M ³ H ₂ Oeq/M ³
				4500psi	3.035	M ³ H ₂ Oeq/M ³
Groundwater	7,469.70			5000psi	3.103	M ³ H ₂ Oeq/M ³
				6000psi	2.969	M ³ H ₂ Oeq/M ³
				7000psi	2.974	M ³ H ₂ Oeq/M ³

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Kaohsiung Cement Products Plant, Taiwan Cement Corporation - Chiayi Plant No.8, Xinsheng St., Minxiong Township, Chiayi County 621011, Taiwan 台灣水泥股份有限公司高雄水泥製品廠-嘉義分廠 621011 嘉義縣民雄鄉民雄工業區新生街 8 號

Wat	Water withdrawal		Water scarcity indicator				
Resource Type	Quantities	Unit	Functional Unit of Product	Specification	Quantities	Unit	
				2000psi	2.934	M ³ H ₂ Oeq/M ³	
			每立方公尺預拌混凝土	2500psi	2.966	M ³ H ₂ Oeq/M ³	
		M ³ /Year		3000psi	2.938	M ³ H ₂ Oeq/M ³	
Tap water	24,066.31			3500psi	2.931	M ³ H ₂ Oeq/M ³	
Tap water	24,000.31	M ² /Teal	one cubic meter ready- mixed concrete	4000psi	2.893	M ³ H ₂ Oeq/M ³	
			mixed concrete	4500psi	2.887	M ³ H ₂ Oeq/M ³	
				5000psi	2.888	M ³ H ₂ Oeq/M ³	
				6000psi	3.180	M ³ H ₂ Oeq/M ³	

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Kaohsiung Cement Products Plant, Taiwan Cement Corporation - Tainan Plant No.36, Taiyi 7th St., Rende Dist., Tainan City 717019, Taiwan 台灣水泥股份有限公司高雄水泥製品廠-台南分廠 717019 台南市仁德區一甲里太乙七街 36 號

Wat	Water withdrawal		Water scarcity indicator				
Resource Type	Quantities	Unit	Functional Unit of Product	Specification	Quantities	Unit	
				1142psi	2.837	M ³ H ₂ Oeq/M ³	
				2000psi	2.919	M ³ H ₂ Oeq/M ³	
Tap water	15,349.86			2500psi	2.927	M ³ H ₂ Oeq/M ³	
Tap water	13,349.00	M ³ /Year	每立方公尺預拌混凝土 one cubic meter ready-	3000psi	2.955	M ³ H ₂ Oeq/M ³	
				3500psi	2.937	M ³ H ₂ Oeq/M ³	
				4000psi	2.955	M ³ H ₂ Oeq/M ³	
			mixed concrete	4500psi	2.870	M ³ H ₂ Oeq/M ³	
				5000psi	2.920	M ³ H ₂ Oeq/M ³	
Groundwater	19,425.00			5500psi	2.825	M ³ H ₂ Oeq/M ³	
				6000psi	2.913	M ³ H ₂ Oeq/M ³	
				7000psi	2.838	$M^{3}H_{2}Oeq/M^{3}$	

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Kaohsiung Cement Products Plant, Taiwan Cement Corporation - Anping Plant No.84-2, Xinle Rd., South Dist., Tainan City 702008, Taiwan 台灣水泥股份有限公司高雄水泥製品廠-安平分廠 702008 台南市南區新樂路 84 之 2 號

Wat	Water withdrawal		Water scarcity indicator				
Resource Type	Quantities	Unit	Functional Unit of Product	Specification	Quantities	Unit	
				1142psi	2.933	M ³ H ₂ Oeq/M ³	
				1500psi	2.969	M ³ H ₂ Oeq/M ³	
				2000psi	3.022	M ³ H ₂ Oeq/M ³	
				2500psi	2.953	M ³ H ₂ Oeq/M ³	
			每立方公尺預拌混凝土	3000psi	3.134	M ³ H ₂ Oeq/M ³	
Tap water	40,913.21	M ³ /Year	one cubic meter ready-	3500psi	3.080	M ³ H ₂ Oeq/M ³	
			mixed concrete	4000psi	3.132	M ³ H ₂ Oeq/M ³	
				4500psi	2.949	M ³ H ₂ Oeq/M ³	
				5000psi	3.147	M ³ H ₂ Oeq/M ³	
				6000psi	3.038	M ³ H ₂ Oeq/M ³	
				7000psi	2.940	M ³ H ₂ Oeq/M ³	

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Kaohsiung Cement Products Plant, Taiwan Cement Corporation - Shanhua Plant No.33, Xingnong Rd., Shanhua Dist., Tainan City 741004, Taiwan 台灣水泥股份有限公司高雄水泥製品廠-善化分廠 741004 台南市善化區興農路 33 號

Wat	Water withdrawal		Water scarcity indicator				
Resource Type	Quantities	Unit	Functional Unit of Product	Specification	Quantities	Unit	
				1500psi	2.890	M ³ H ₂ Oeq/M ³	
				2000psi	2.815	M ³ H ₂ Oeq/M ³	
Tap water	18,407.65			2500psi	2.923	M ³ H ₂ Oeq/M ³	
			每立方公尺預拌混凝土	3000psi	2.911	M ³ H ₂ Oeq/M ³	
		M ³ /Year	one cubic meter ready-	3500psi	2.921	M ³ H ₂ Oeq/M ³	
			mixed concrete	4000psi	2.917	M ³ H ₂ Oeq/M ³	
Groundwater	5,867.36			5000psi	2.910	M ³ H ₂ Oeq/M ³	
Groundwater	5,007.50			6000psi	2.817	M ³ H ₂ Oeq/M ³	
				8000psi	3.082	M ³ H ₂ Oeq/M ³	

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