

### STORAGE SILOS

YEAR	OWNER	LOCATION	CAPACITY	TYPOLOGY
1976	HORNOS IBÉRICOS	CARBONERAS (SPAIN)	50.000 TON CLINKER	STEEL SHEET
1983	PORTLAND VALDERRIVAS	EL ALTO (SPAIN)	2 x 35.000 TON CLINKER	PRE-STRESSED CONCRETE
1985	CEMENTOS COSMOS	OURAL (SPAIN)	45.000 TON CLINKER	PRE-STRESSED CONCRETE
1987	CEMENTOS COSMOS	TORAL DE LOS VADOS (SPAIN)	60.000 TON CLINKER	PRE-STRESSED CONCRETE
1988	PORTLAND MALLORCA	LLOSETA (SPAIN)	18.000 TON CEMENT	PRE-STRESSED CONCRETE
1988	CEMENTOS ATLÁNTICO	ALCALÁ GUADAIRA (SPAIN)	18.000 TON CEMENT	PRE-STRESSED CONCRETE
1989	CEMENTOS LEMONA	LEMONA (SPAIN)	60.000 TON CLINKER	MULTI COMPARTMENT CONCRETE
1989	CEMENTOS DEL NORTE (CENOSA)	BOSTON (USA)	4 x 15.000 TON CEMENT	REINFORCED CONCRETE
1990	ASLAND	VILLALUENGA DE LA SAGRA (SPAIN)	2 x 40.000 TON CLINKER	STEEL SHEET
1990	ASLAND	VILLALUENGA DE LA SAGRA (SPAIN)	22.000 TON MEAL	PRE-STRESSED CONCRETE
1991	VALENCIANA CEMENTOS	ALCANAR (SPAIN)	100.000 TON CLINKER	DOVE SILO (SEMI SPHERE)
1992	VALENCIANA CEMENTOS	BUÑOL (SPAIN)	75.000 TON CLINKER	DOVE SILO (3/4 SPHERE)
1993	VALENCIANA CEMENTOS	ALICANTE (SPAIN)	75.000 TON CLINKER	DOVE SILO (3/4 SPHERE)
1996	CEMENTOS LEMONA	LEMONA (SPAIN)	22.000 TON CEMENT	TWO-COMPARTMENT CONCRETE
1998	AZUCARERA EBRO	BENAVENTE (SPAIN)	70.000 TON SUGAR	PRE-STRESSED CONCRETE
1999	HARICANA	LAS PALMAS (SPAIN)	25.000 TON MEAL-GRAIN	MULTI COMPARTMENT CONCRETE
2000	PORTLAND VALDERRIVAS	OLAZAGUTIA (SPAIN)	2 x 18.000 TON CEMENT	THREE-COMPARTMENT CONCRETE
2000	CEMEX MÉXICO	DOMINICAN REPUBLIC	40.000 TON CLINKER	BUNKER PRE-STRESSED CONCRETE
2001	PORTLAND VALDERRIVAS	ALCALÁ DE GUADAIRA (SPAIN)	2 x 40.000 TON CLINKER	PRE-STRESSED CONCRETE
2001	AZUCARERA EBRO	MIRANDA DE EBRO (SPAIN)	75.000 TON SUGAR	PRE-STRESSED CONCRETE
2002	ACOR	OLMEDO (SPAIN)	80.000 TON SUGAR	PRE-STRESSED CONCRETE
2002	HOLCIM	CARBONERAS (SPAIN)	16.000 TON CEMENT	THREE-COMPARTMENT CONCRETE
2002	AZUCARERA EBRO	GUADALCACÍN (SPAIN)	70.000 TON SUGAR	PRE-STRESSED CONCRETE
2002	CEMENTOS BARRERO	SEVILLA (SPAIN)	30.000 TON CLINKER	STEEL SHEET
2002	SITASA	TARRAGONA (SPAIN)	14 x 4.000 TON GRAIN	REINFORCED CONCRETE
2003	AZUCARERA EBRO	TORO (SPAIN)	70.000 TON SUGAR	PRE-STRESSED CONCRETE
2003	S.A.,TUDELA VEGUÍN	LA ROBLA (SPAIN)	2 x 35.000 TON CLINKER	PRE-STRESSED CONCRETE
2003	CEMENTOS BALBOA	ALCONERA (SPAIN)	40.000 TON CLINKER	STEEL SHEET
2003	CEMEX ESPAÑA	CASTILLEJO (SPAIN)	55.000 TON CLINKER	PRE-STRESSED CONCRETE
2004	FINANCIERA Y MINERA	MÁLAGA (SPAIN)	70.000 TON CLINKER	PRE-STRESSED CONCRETE
2004	ATLÁNTICA DE GRANELES	ZIÉRBENA (SPAIN)	32.000 TON SLAG	FOUR-COMPARTMENT CONCRETE SILO
2006	CEMENTOS REZOLA	ARRIGORRIAGA (SPAIN)	18.000 TON CEMENT	CUT TWO-COMPARTMENT CONCRETE SILO
2007	PORTLAND VALDERRIVAS	HONTORIA (SPAIN)	54.000 TON CLINKER	FOUR-COMPARTMENT CONCRETE SILO
2007	HARINERA VILAFRANQUINA	ELS MONJOS (SPAIN)	25.000 TON MEAL - GRAIN	MULTI COMPARTMENT CONCRETE SILO
2008	CEMEX ESPAÑA	BUÑOL (SPAIN)	40.000 TON WHITE CLINKER	PRE-STRESSED CONCRETE
2008	CEMENTOS BALBOA	ALCONERA (SPAIN)	45.000 TON CLINKER	PRE-STRESSED CONCRETE
2008	ARABIAN CEMENT COMPANY	RAMLIYA (EGYPT)	2 x 18.000 TON CEMENT	PRE-STRESSED CONCRETE
2008	LAFARGE	SÉTE (FRANCE)	4 x 3.500 TON SLAG	STEEL SHEET
2008	ITALCEMENTI GROUP	ÁIT-BAHA (MOROCCO)	100.000 TON CLINKER(**)	CYLINDRICAL DOME WITH A SEMI-SPHERE IN THE VAULT
2009	CEMENTOS PROGRESO	GUATEMALA	3 x 5.000 TON CEMENT	PRE-STRESSED CONCRETE
2009	DEVNYA CEMENT	DEVNYA (BULGARY)	22.000 TON RAW MEAL	PRE-STRESSED CONCRETE
2009	DEVNYA CEMENT	DEVNYA (BULGARY)	120.000 TON CLINKER	PRE-STRESSED CONCRETE
2010	CEMENTOS PROGRESO	GUATEMALA	30.000 TON CLINKER	PRE-STRESSED CONCRETE
2010	ESPABEL	GENTH (BELGIUM)	6 x 3.600 TON CEMENT	STEEL SHEET
2010	HARINERA VILAFRANQUINA	CÁDIZ (SPAIN)	WHEAT & FLOURS (*)	PRECAST CONCRETE
2010	HOLCIM ESPAÑA	JEREZ DE LA FRONTERA (SPAIN)	2 x 7.500 TON CEMENT (*)	REINFORCED CONCRETE

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2011	Trituradora y Procesadora de Materiales SANTA ANITA, S.A. de C.V.	HIDALGO (MEXICO)	15.000 TON CEMENT	FOUR-COMPARTMENT CONCRETE SILO
2011	Trituradora y Procesadora de Materiales SANTA ANITA, S.A. de C.V.	HIDALGO (MEXICO)	21.000 TON CLINKER	BUNKER - REINFORCED CONCRETE
2011	HOLCIM	TUBAN (INDONESIA)-TWO LINES	2 x 10.000 + 1 X 5.000 TON CEMENT	PRE-STRESSED CONCRETE
2011	HOLCIM	TUBAN (INDONESIA)-TWO LINES	50.000 M3 CLINKER	PRE-STRESSED CONCRETE
2013	CEMEX COLOMBIA	IBAGUÉ (COLOMBIA)	20.000 TON CEMENT(*)	PRE-STRESSED CONCRETE
2014	Trituradora y Procesadora de Materiales SANTA ANITA, S.A. de C.V.	HIDALGO (MEXICO)	12.000 M3 CEMENT	THREE-COMPARTMENT CONCRETE SILO
2015	HOLCIM (NEW ZEALAND) LTD	AUCKLAND & TIMARU (NEW ZEALAND)	2 x 35.000 M3 CEMENT(**)	CYLINDRICAL DOME WITH A SEMI-SPHERE IN THE VAULT
2015	HOLCIM	LAMPUNG (INDONESIA)	10.000 M3 CEMENT(**)	PRE-STRESSED CONCRETE
2016	CEMENTOS ARGOS	SOGAMOSO (COLOMBIA)	18.000 TON CLINKER	PRE-STRESSED CONCRETE
2017	ECEBOL	ORURO (BOLIVIA)	10.000 TON RAW MEAL & 8.000 TON CEMENT	PRE-STRESSED CONCRETE
2017	UNIÓN CEMENTERA NACIONAL (UCEM)	CHIMBORAZO (ECUADOR)	12.000 TON RAW MEAL	PRE-STRESSED CONCRETE
2017	CIMENTS DE L'ATLAS (CIMAT)	BENI MELAL (MOROCCO)	40.000 TON CLINKER	BUNKER - REINFORCED CONCRETE WITH STEEL ROOF
2018	POWER CEMENT	SINDH (PAKISTAN)	2 X 30.000 TON CEMENT	PRE-STRESSED CONCRETE
2018	ECEBOL	POTOSÍ (BOLIVIA)	10.000 TON RAW MEAL & 8.000 TON CEMENT	PRE-STRESSED CONCRETE
2019	CRUZ AZUL	HIDALGO (MEXICO)	40.000 TON CLINKER	PRE-STRESSED CONCRETE
2019	GRAIN INDUSTRIES LTD	MOMBASA (KENYA)	2 x 65.000 TON CLINKER	PRE-STRESSED CONCRETE
2019	ATALAYA RIOTINTO MINERY	MINAS DE RIOTINTO (SPAIN)	7.500 M2 PLANT AND 50 M RADIO STORAGE (*)	BUNKER - METAL COVER
2020	TECKIM	EL YADIDA (MOROCCO)	11.000 TON RAW MEAL	PRESTRESSED CONCRETE
2020	TECKIM	EL YADIDA (MOROCCO)	7.000 TON CEMENT	TRICAMERAL OF REINFORCED CONCRETE
2020	TECKIM	EL YADIDA (MOROCCO)	2 x 7.500 TON CEMENT	PRESTRESSED CONCRETE
2020	TECKIM	EL YADIDA (MOROCCO)	60.000 TON CLINKER	PRESTRESSED CONCRETE
2021	LAFARGE HOLCIM	SOUSS (MARRUECOS)	10.000 TON CEMENT AND FLY ASHES	EIGHT-COMPARTMENT CONCRETE SILO
2023	CIMAF(Ciments de l'Afrique)	KER MOUSSA (SENEGAL)	20.000 TON CEMENT	FIVE-COMPARTMENT CONCRETE SILO
2023	CIMAF(Ciments de l'Afrique)	DOUALA (CAMEROON)	35.000 TON CLINKER	PRE-STRESSED CONCRETE

(\*) Rehabilitation and Strengthening of Existing facility

(\*\*) Peer Review Project / Site