



Your needs, our priority.



CDB (CONDITIONNEMENT DECHETS BETON), established in 2000, is a limited company with a capital of 40,000 euros. Its shareholders include CYCLIFE France and VINCI CONSTRUCTION.

The company operates an industrial production plant in **Chazey-Bons**, located in the southern Bugey region within the French department of Ain. Additionally, CDB manages an alluvial quarry located just a few kilometers from the plant in Belmont-Luthézieu.

Our activities



Production of reinforced concrete containers for the conditioning of radioactive waste.



Production of dry batches (pre-dosed dried materials packaged in big-bags)

Production of reinforced concrete poles to support overhead power lines.



Operation of an alluvial quarry



Production of reinforced concrete panels for soldier piles



Production of CDBloc concrete blocks with interlocking features for modular structures.

COFEX-GTM

ANDRA

ENDEL

engie







NUVIA







NGE







CAMPENON BERNARD NUCLÉAIRE



ISO 9 001 and 14 001 : Manufacture and supply of reinforced concrete products and dry bat-

> CE marking: Concrete poles, compliant with the standard: NF EN 12843

> > Aggregates, compliant with the standards: NF EN 12620 NF EN 13138



Containers



Since its establishment in 2000, CDB has a historical expertise in designing and produding **reinforced concrete containers** for the conditioning and storage of low and intermediate level radioactive waste.

These containers are used across all EDF Nuclear Power Plants (NPP) as well as by the The French Alternative Energies and Atomic Energy Commission (CEA) research laboratories.

Designed for surface storage at the **ANDRA** Aube disposal facility, these containers have undergone a **300-year durability** demonstration, achieved through:

- · Development of high-performance concrete formulations
- Specification of unique container geometries
- Design and mastery of the industrial manufacturing process
- · Implementation of controls throughout the manufacturing process



Concrete plug Internal metal chaining

IRP lid _

Handling belt ____ Concrete container ___ Internal metal skin ___ ANDRA identification label __ Steel Integrated __ Radiological Protection (IRP) Polystyrene insulation ____ + polyethylene cover Blocking mortar __ Reinforcement cage __ Malaxing blade __



The standard **CIPG** and **C4PG** containers offered by CDB differ only in diameter and usable volume. Each container consists of a concrete shell with an internally manufactured reinforcement cage. The specific head geometry (gutter profile) ensures optimal concrete re-pouring for onsite plug fabrication.

Building on these two standards, CDB offers a complete range of variants designed for the conditioning of different type of waste. These variants can include features such as steel radiological protections and/or mixing blades.



St	Standard containers				Variants						
							CIPGSP>				
	CIPG		C4PG		CIPGPA	C1P + eng	GSP graving		C4PGB/	4	
Μ	MERCURE containers				UM2B containers						
	C1PGS1 C1PGS2			CIPGS3 CIPGB1			C1PGB2		C1PGB	3	
	Diameter	Height	Usable volume	Theoretical mass (kg)	Application						
C1PG	ø 1,400 mm	1,300 mm	914 dm³	2,310 kg	Conditioning of water filter heterogeneous waste	rs and (*)		CDB	Carito		
C1PGPA				2,360 kg	Conditioning of wastewat treatment sludge and concentrates	ter		PRE-CONFIN	NED		
CIPGSP				2,390 kg	Polystyrene-free container fo geological disposal	or deep	deep				
C1PGS1			640 dm ³	3,950 kg			l				
C1PGS2			525 dm ³	4,900 kg	MERCURE process (ion exchange resin treat	ment)					
C1PGS3			420 dm ³	5,715 kg			CDB	also	provide	s a	
C1PGB1			640 dm ³	3,890 kg	UM2B process		compre	hensiv	e range	e of	
C1PGB2			525 dm ³	4,900 kg	(sludge blocking)		pre-confined filters in CIPG				
C1PGB3			420 dm ³ 477 dm ³	5,700 kg			200-liter	r metal	s, as well I drums	as in	
C4PG	1 ,100 mm			1,650 kg	Conditioning of water filters and heterogeneous waste (*)		Docume	entatio	n for	these	
C4PGBA			73 dm³	2,860 kg	RCV filter conditionnin	g	product request	products is available request .			

(*) Heterogeneous wastes include ventilation filters, mechanical parts, vinyl, PVC, clothing, glassware, rubble, and more.

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Dry batches

Thanks to an industrial facility unique in France, CDB manufactures ready-to-use **concrete and mortar dry mixes**, known as dry batches.

The manufacturing process includes the following steps:









Analysis and testing on raw materials

Aggregates drying

Pre-dosing of materials

Bagging in big-bags

By thoroughly mastering concrete parameters, this solution ensures excellent reproducibility of results in both fresh and hardened states, especially for the most advanced concrete formulations.

This solution has gained endorsement from stakeholders in the nuclear, civil engineering, and public works sectors (new construction and structural repairs).

CDB's annual production capacity is 17,000 dry batches.

Technical caracteristics



• CDB



07-71

190

300

Tél

Fa

C.D.B. 01300 CHAZEY-BO Tél : 04.79.81.74.01 Fax: 04.79.81.74.02

Precision, traceability, and rigorous control of concrete parameters for your most demanding applications.

Utility poles

CDB manufactures reinforced concrete poles used to support overhead power lines for low and medium voltages.

CDB has an annual production capacity of 3,000 poles.





This generation of poles represents a leap forward in safety, with a design that prevents climbing. They also address environmental concerns by offering full-color integration to blend harmoniously into the landscape.

As part of its eco-design approach, CDB conducts a life cycle analysis of its concrete utility poles, with detailed results presented in Environmental and Health Declaration Sheets (EHDS) provided to customers and end-users.



Colors











load-bearing capacity

CDB distributes electrical line support poles across 18 departments in Eastern France. Whether in storage or directly on site, our transport partners autonomously handle unloading while adhering to strict safety protocols.

These poles comply with the **NF EN 12843** standard and are CE marked.

Quarry





CDB operates the alluvial quarry in Belmont-Luthézieu, which supplies aggregates qualified by EDF for use as components in concrete formulations dedicated to the production of durable containers and dry batches.

Extraction operations are facilitated by a mobile processing unit capable of handling various materials, including sands, gravels, aggregates, and pebbles.

The quarry is accessible to both individuals and professionals for **direct purchase** of aggregates. CDB provides a **tailored delivery service** using vehicles capable of reaching challenging locations, whether at the customer's site or on construction sites

Address :



Carrière de Belmont Luthezieu Chemin de Thol 01510 ARTEMARE FRANCE

Opening hours :



Mon to Thu : 07:30 - 12:00 / 12:30 - 15:30

ゲ Fri : 07:30 - 12:30

Contact details :

+33.(0)4.79.87.32.23

+33.(0)6.17.23.74.63



CDB provides a cost-effective service for land backfilling with soil and stones. Contact us now for more information on the specifics.







Concrete panels

CDB offers a complete range of **reinforced concrete panels for soldier piles**.

The soldier pile method involves placing precast concrete panels between H-shaped steel beams that are drilled or vibro-drilled into place before excavation begins.





Technical data

- Self-placing concrete strength class from C25/30
- ST40C welded mesh (10x10 mm mesh / 7 mm wire diam.)
- $2 \times \emptyset$ 10 mm mild steel lifting anchor
- Standard dimensions : Width: 120, 145, 195 and 244 cm
 - Height: 200, 250, 300 and 350 cm Thickness: 8 cm

Advantages of the solution:

- Cost-effective
- Quick to install
- Temporary or permanent

Advantages

- Custom manufacturing tailored to customer specifications (special dimensions, reinforced mesh).
- Extensive inventory ensures high availability for prompt delivery.
- Professional and responsive delivery service across the Auvergne Rhône-Alpes region.



Modular concrete blocks for temporary or permanent structures

 $\bigcirc CDB$

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CDBloc is CDB's innovative modular solution for temporary or permanent structures.

- This solution consists of a range of concrete blocks in standard widths (1m, 1.50m, or 2m) that can be easily assembled and disassembled as needed. The quick and straightforward installation process makes it highly cost-effective.
- The incorporation of lateral and vertical recesses enhances structural strength and reduces material costs by 17% compared to competing solutions offering similar performance levels.





Modularity



Quick and easy to install

Technical data :

- Widths : 1,000, 1,500 or 2,000 mm
- Thickness : 500 mm
- Height : 550 mm
- Mass : 600 to 1,300 kg
- Concrete strength class: C25/30 to C40/50
- Lower, upper and side recesses
- Built-in handling anchors of the Artéon® type or equivalent

Advantages :

- Strength guaranteed through rigorous concrete quality control
- Optimal finish on all visible surfaces
- Option for mass tinting



Available as a molded option to replicate the appearance of aged stone, providing an authentic look without the need for additional cladding

CDB's services :

- Assistance in defining your needs
- Layout proposal
- Provision of generic or customized calculation notes
- Responsive nationwide delivery





Services & resources



Finished product testing

CDB performs industrial feasibility tests at its facilities as part of container upgrade programs in partnership with EDF:

- Load-bearing tests
- Concrete cutting tests
- Drop tests

These tests are crucial for obtaining approvals from regulatory authorities responsible for waste transportation and storage.



• CDB



CDB's in-house laboratory is equipped with a wide range of testing equipment, enabling the company to conduct inspection on incoming raw materials and to perform routine tests on fresh or hardened concrete and mortar.

Cement testing







Quick identification

False set research

Hot stabilization

Setting time determination

Fineness determination using Blaine's method

Aggregate testing



Water content



Water requirements



Methylene blue test



PH measurement



Granulometry and fine content (by dry and wet methods)

Fresh concrete testing



Sand equivalent determination



Prohibited impurities determination



Air content measurement



Flow time measurement (marsh cone test)



Spread measurement

Hardened concrete testing



Density determination



Concrete test specimen storage under standardized conditions







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