



CIRCULATING FLUIDISED BED

Calderys has been delivering results to Circulating Fluidised Bed (CFB) boiler operators for decades, with projects all over the world.

Calderys offers refractory solutions for CFB boilers with all feedstock types: waste, biomass and coal

1 Gas Duct

For refractory in this CFB zone the key is to withstand aggressive vapours.

Gunning options recommended for uncooled CFB:

- CALDE® GUN F 40
- CALDE® GUN LF 52 A (particularly for waste feedstock)

Diverse linings for cooled CFB:

- CALDE® SPRAYCAST or GUN ranges
- CALDE® PATCH PS 70 for small areas

Dense:

- VERSAFLOW® 45 Plus / ULTRA-GREEN® 45 Insulating
- Heatermix

2 Cyclone Walls

Here abrasion resistance against turbulence is a key factor for refractory choice.

Castable options include:

- CALDE® CAST / FLOW 50 A
- CALDE® SPRAYCAST SiC or LM 74 A

Gunning example:

- CALDE® GUN LM 74 A

Ramming example for small areas:

- CALDE® PLAST REDD RAM

Dense:

- VERSAFLOW® 70 PLUS / ULTRA-GREEN® 70 ABR PLUS / EXPRESS-30 PLUS / VERSAGUN ABR PLUS

Insulating:

- LW1300 PLUS / LW124 PLUS / KOL 23 Li PLUS / KOL 20-45 G PLUS

3 Boiler walls above free board (EBK)

For this slag-building area, a smooth surface refractory is recommended, with SiC an important element for waste & biomass boilers.

Casting options:

- CALDE® CAST, FLOW, and SPRAYCAST ranges

Ramming example for small areas:

- CALDE® PLAST REDD RAM

Patching examples for small areas:

- Keraplan SiC-V-85-E
- CALDE® PATCH PS 70

Dense:

- VERSAFLOW® 60 PLUS / VERSAFLOW® 70 PLUS / VERSAFLOW 55AR PLUS / ULTRA-GREEN® 70 ABR PLUS

4 Loop seal (Compact boiler: Intrex)

For the powerful sand erosion and chemical vapours in this CFB zone, Calderys experts will partner with you on the optimal refractory solutions.

Many castable options:

- CALDE® CAST, FLOW, and SPRAYCAST ranges

Ramming example:

- CALDE® PLAST REDD RAM

Gunning example:

- CALDE® GUN LM 74 A

Dense:

- ONLINE 57A / VERSAFLOW® THERMAX PLUS

Insulating:

- LW1300 PLUS / LW124 PLUS / KOL 23 Li PLUS / KOL 20-45 G PLUS

5 Slag outlet

This is a critical area of the CFB for abrasion resistance due to the falling of slag, but also thermal shock resistance due to water contact.

Castable options:

- CALDE® CAST, FLOW, and SPRAYCAST ranges

Gunning examples:

- CALDE® GUN LF 50 A
- CALDE® GUN LM 74 A
- CALDE® GUN B 85

Dense:

- VERSAFLOW® 45 Plus / ULTRA-GREEN® 45

Insulating:

- Heatermix





INNOVATION

At Calderys, innovation is a **key priority** keeping us proactive to better anticipate customer needs and market trends.

Discover some of the main elements of our innovation philosophy.

Beyond product development

Innovation at Calderys goes beyond products: We are pioneering new installation techniques, improving equipment to deliver higher yields, and creating new services to always bring more value to our customers.

Global network

Calderys leverages global expertise & resources from the worldwide Imerys group.

Local adaptability

15 strategically-located Customisation Labs around the globe to meet country-specific demands with fast response time.

Advanced project management

We use the latest digital tools to ensure the most efficient path from idea generation to product launch.

Safety focus

Beyond strict safety protocols in our labs, we deliver safer new products & installation processes (i.e. to reduce air pollution, optimise formulas for higher health standards).



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