

WE PROTECT YOUR PROCESS

Cyclone Vertical Bull Nose

Country Australia
Area Cyclone Vertical Bull Nose
Lifetime 4 years

Installation



HASLE Precast



After 1 years



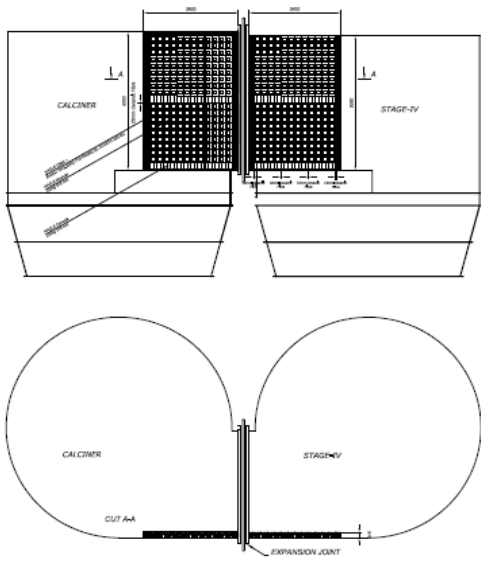
...after 2 years

WE PROTECT YOUR PROCESS

Cyclones

Country India
Area Duct between Calciner and Cyclone
Lifetime +4 years and still running

Precast design



... after 1 year

WE PROTECT YOUR PROCESS

Cyclone Vertical Bull Nose

Country Thailand
Area Cyclone Vertical Bull Nose
Lifetime 5 years and still running

HASLE Precast after 2 years



WE PROTECT YOUR PROCESS

Riser Duct and Smoke Chamber

Country India
Area Riser Duct and Smoke Chamber
Lifetime 4 years total lifetime

Riser Duct and Smoke Chamber installation



HASLE Precast



...after 1.5 years

WE PROTECT YOUR PROCESS

Inlet arch

Country India
Area Inlet Arch
Lifetime 4 years total lifetime

Inlet Arch installation



HASLE Precast



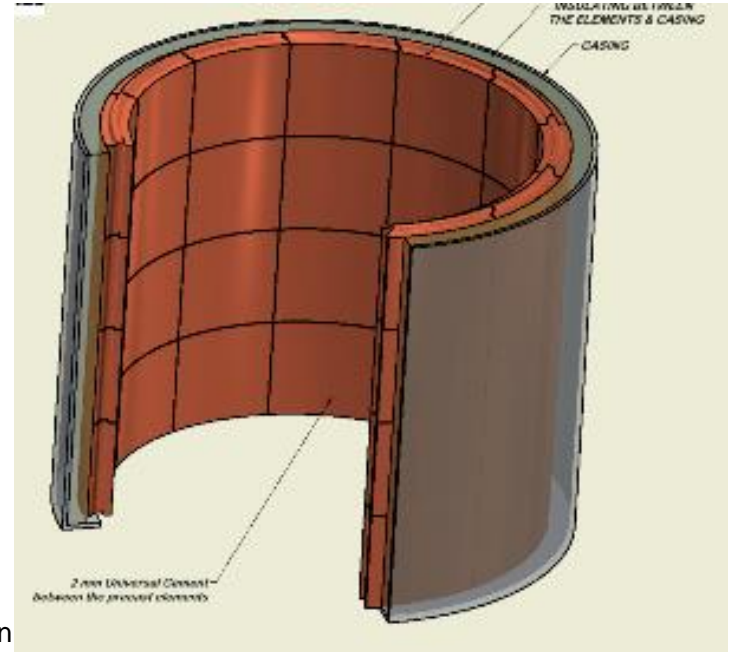
...after 1.5 years

after 2.5 years

WE PROTECT YOUR PROCESS

Feed Pipes

Country	India
Area	Feed pipes
Expected lifetime	8-10 years
Current lifetime	6 years and still running



HASLE Design

HASLE Precast Installation



WE PROTECT YOUR PROCESS

Cooler Roof and Bull Nose

Country: Germany
Are: Cooler Roof and Bull Nose
Current Lifetime: 4 years

Installation



After 1 year



HASLE Precast



...after 2 years

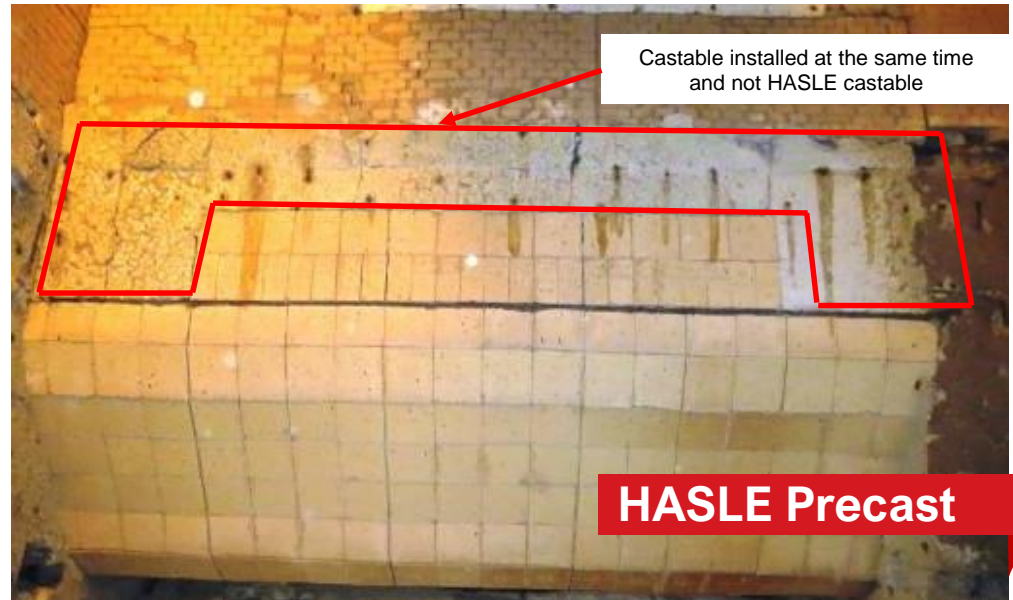
WE PROTECT YOUR PROCESS

Bull Nose

Country Vietnam
Area: Bull Nose

First time installation
Lifetime: 3 years

Below: Installation in the Curve Part of Bull Nose.



after 1 year

WE PROTECT YOUR PROCESS

In September 2015, customer had major shutdown for 14 days. Its life was already 1.5 years. All precast were still in good condition.

No wear on precast. HASLE brand mark still presented sharp on the surface.

Bull Nose renewed in 2018 and still running.



HASLE Precast after 1.5 years



WE PROTECT YOUR PROCESS

Cooler Side Wall

Country Indonesia
Area Cooler Side Wall
Lifetime: 4 years

Installation



after 2.5 years

WE PROTECT YOUR PROCESS

Cooler Roof

Country Indonesia
Area: Cooler Roof
Lifetime 3 years

Installation



after 1 year

WE PROTECT YOUR PROCESS

Take off duct

Country	Thailand
Area	Take off duct
Lifetime	4.5 years (final lifetime)

They repaired this area every year before they applied HASLE Precast



HASLE Precast

...after 1.5 years

WE PROTECT YOUR PROCESS

Pyrochamber

Country Norway
Area Pyrochamber
Lifetime +4 years



HASLE Precast after 2 years