Corobrik and the Environment



October 2008



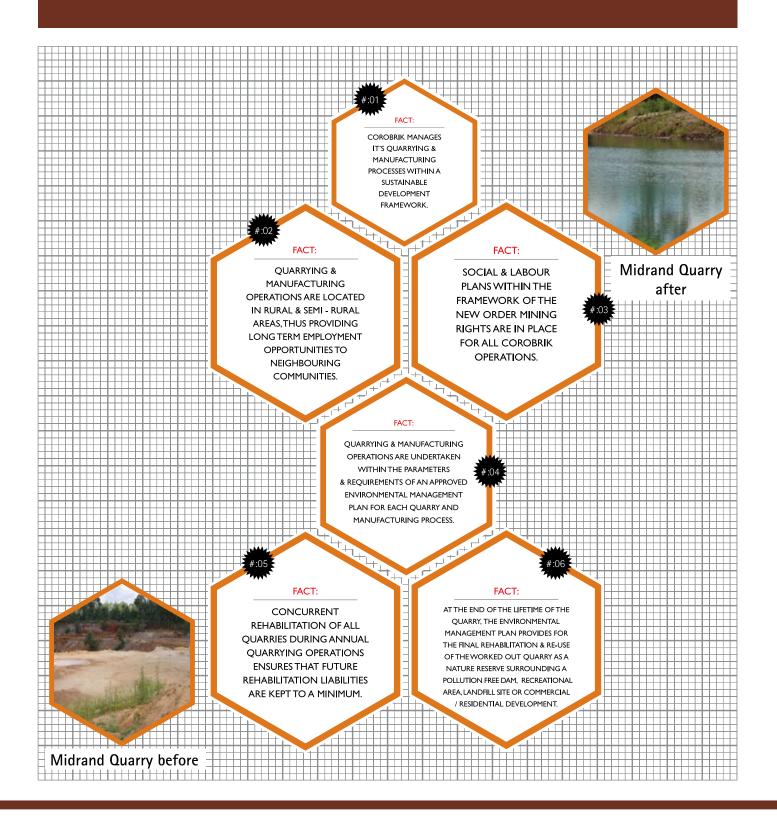


COMMITMENT.

Corobrik is committed to a holistic approach to environmental sustainability where all the activities in the business are based on sound environmental practices. At operational level, the greater use of cleaner burning fuels, more effective use of energy and the employment of technological innovations able to achieve incremental reductions in Corobrik's carbon footprint at time of manufacture and during delivery of its products to site is a key objective.

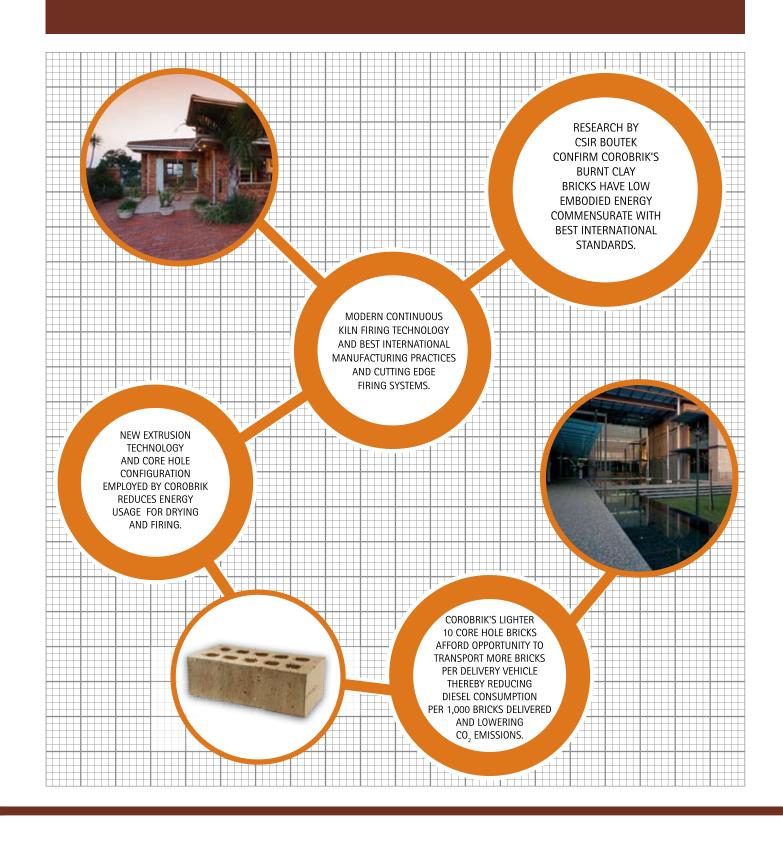


GEARED TOWARDS SUSTAINABLE DEVELOPMENT.





INNOVATIONS TO ACHIEVE INCREMENTAL REDUCTION IN GREENHOUSE GAS EMISSIONS.



COMMITTED TO CLEANER BURNING FUELS.

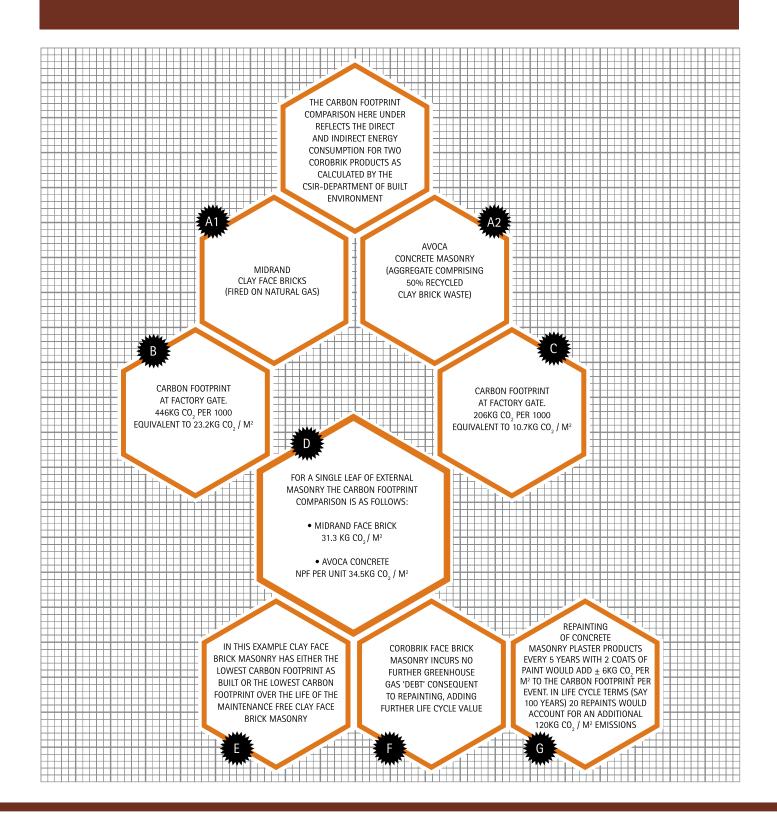
- For each giga joule of energy, natural gas releases just 48 kg's of CO₂ compared to 97 kg's of CO₂ omitted from coal.
- Between 1996 2007 Corobrik Avoca, Springs, Midrand and Rietvlei factories converted from coal or producer gas to natural gas for the firing of kilns.
- In 2005 Lawley factory registered its Fuel Switch Project with the United Nations Clean Development Mechanism. On 13 June 2008 Corobrik received its first certificate of Certified Emissions Reductions (CER) confirming emissions reduced cleaner equivalent to 17 500 kg of CO, per annum.
- In 2008 Driefontein factory switched from producer gas to natural gas firing. Application has been made to the United Nations Clean Development Mechanism for this project to be registered as a clean air project.
- As of 2008 Corobrik has 6 major factories being fired on natural gas. Further factory conversions will be undertaken depending on availability of natural gas at factory gate. In this regard Corobrik is exploring supply possibilities with SASOL.



Lawley Factory



CLAY FACE BRICK'S ECO BALANCE.



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CLAY FACE BRICK – A TRULY ENVIRONMENTALLY FRIENDLY BUILDING MATERIAL.

- Corobrik clay face bricks have low embodied energy at factory gate.
- Clay face brick do not detract from indoor air quality
 Being inert, clay bricks do not release volatile organic compounds associated with other finishes.
- Clay face bricks are fully recyclable
 Demolished bricks can be reused either as face bricks or pavers and/ or recycled as aggregate for concrete materials manufacture and / or as a decorative ground cover.
- Clay face bricks positively impact on environmental safety
 - Clay face bricks are non-combustible having class leading fire resistance characteristics,
 - Clay face brick masonry has exceptional structural integrity providing protection against catastrophic weather events and man induced interventions.
- Clay face bricks afford high degrees of visual comfort

Clay face brick is an organic vitrified ceramic material typically recognised for its aesthetic contribution to the built environment. No other walling material has yet been able to demonstrate the same ability as clay brick to add warmth, character and human scale to an equally broad spectrum of architecture over an equal period of time as clay brick has been able to do

- Clay facebrick walls contribute positively to acoustic comfort
 - Clay face bricks provide acoustic insulation to habitable space of 44 dB for a single skin and 48 dB for double skin walling. Clay brick masonry keeps noise from outside environments to a minimum and optimize the quietness of habitable space.
- Clay Face Bricks extreme durability affords a maintenance free lifecycle
 Over a building's life (say 100 years) savings on painting will afford emission reductions of 120 kg of CO₂/M²
- Clay face bricks help moderate internal temperatures.
 - Clay face bricks have a high thermal mass, a property that naturally slows temperature movements through the walling envelope moderating internal habitable spaces minimising energy usage for artificial heating and cooling.

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