

## Rollforming Mill

CA rolling out sustainable solutions



**Client:** CA Building Products.

**Developer:** CA Building Products.

**Architect:** PlanArch Design, Bishop Auckland, County Durham.

**Cladding Contractor:** CA Roofing Services.

**Roof:** 2,973m<sup>2</sup> Twin-Therm<sup>®</sup> Roof using Corus Colorcoat HPS200<sup>®</sup> in Goosewing Grey

**Walls:** 4,573m<sup>2</sup> Twin-Therm<sup>®</sup> using Corus Colorcoat HPS200<sup>®</sup> in Merlin Grey.

**SolarWall:** 1,211m<sup>2</sup> using Colorcoat HPS200<sup>®</sup> in Merlin Grey. Total average annual energy savings for this project are estimated to be 299,000kWh & 71 tonnes of CO<sub>2</sub>.

**Sustainability Credentials:** Corus Confidex Sustain<sup>®</sup> (Building envelope)

**CA Building Products resolved to ensure that their profiling mill, commissioned in January 2007, is a model of best practice in its sector.**

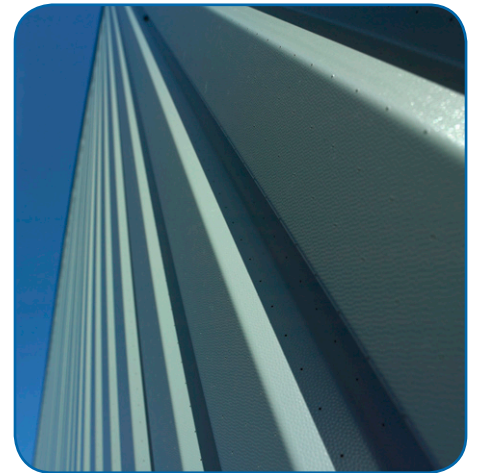
The SolarWall<sup>®</sup> perforated Transpired Solar Collector acts as pre-heater to the gas powered heating system, meaning that, even on overcast days, it can provide pre heated air to the

heating units, reducing the energy needed to maintain the required building temperature. A purpose-designed control system allows real-time readouts of the systems performance.



The SolarWall<sup>®</sup> system has been independently tested, monitored, recorded and proven by BSRIA to produce heating cost savings of 64% and an independently thermally modelled report by Battle McCarthy proved SolarWall<sup>®</sup> can provide up to 20% of a building's total energy requirements.

The building also utilises the Twin-Therm<sup>®</sup> built up wall cladding system, offering excellent air tightness performance which has been tested to as low as 1.06m<sup>3</sup>/hr/m<sup>2</sup> @50pa, exceptional thermal performance and fire resistance. The River-Therm<sup>®</sup> fully walkable secret-fix roofing solution and the Cascade<sup>®</sup> HYDRA evolved siphonics rainwater management system, meaning that there are no internal rainwater pipes within the building.



The SolarWall<sup>®</sup> perforated Transpired Solar Collector, Twin-Therm<sup>®</sup> built up roof and wall cladding system and the River-Therm<sup>®</sup> fully walkable secret-fix roofing solution were provided CarbonNeutral as part of the Corus Confidex Sustain<sup>®</sup> Guarantee, which ensures that all of the unavoidable carbon emissions created throughout the entire life of the SolarWall<sup>®</sup>, Twin-Therm<sup>®</sup> and River-Therm<sup>®</sup> systems, cradle to cradle, is offset by investing in environmental projects worldwide. Corus Confidex Sustain<sup>®</sup> is available on Colorcoat<sup>®</sup> assessed cladding systems from CA Group using Corus Colorcoat HPS200 Ultra<sup>®</sup> and /or Colorcoat Prisma<sup>®</sup>.