

Category	Question	Response
System basics	What is Corium?	Corium is a mechanically fixed brick tile cladding system
	What is the standard tile size for Corium	215 x 65mm (UK brick size)
	How big is a Corium rail	2400 x 75mm (to accommodate 1no. course of standard tiles plus a 10mm joint)
	What is the weight of Corium?	68kg/m ²
	How much in a pack of tiles (215 x 65mm)?	16m ² on the wall (960no. Tiles)
	How much in a full (artic) load of tiles (215 x 65mm)?	480m ² on the wall (30 pallets = 28,800no. Tiles)
	How much in a pack of rails?	16.204m ² (90no. Lengths = 216 linear metres)
	How much in a full (artic) load of rails?	1296.32m ² (80 pallets = 7,200no. Lengths)
	How many Corium tiles per m ² ?	60no. on the wall (so including for the 10mm joints)
	Where is the system manufactured?	The tiles are manufactured in Germany, the rails are rolled in either the UK by Hadley Group or by IB Andresen Industri in Denmark
	What accreditation does the system have?	The system is CWCT tested and is also being accredited by the BBA Agrément Certificate 19/5693
	Who installs the system?	Approved installers - 1 day training on site to become approved
	What is the average installation speed?	45-50m ² per day for a 3 man gang, approximately 4-5 times faster than traditional brickwork
	What height can Corium be installed up to?	There is no limit on height, however attention should be paid to wind loadings (particularly on exposed developments). Our largest development in the UK to date is 28 storeys
	What can Corium be fixed back to?	Aluminium or steel carrier rail systems, composite panels (such as Eurobond Rainspan or Kingspan Benchmark) or timber battens. The system has been tested with a FastFrame bracket and rail system which we can quote on request.
	What is the lead in time for the system?	Rails we endeavour to supply from stock, larger quantities may be up to 12-16 weeks. Tiles are approximately 12-14 week lead-in, with corners taking slightly longer dependent on type and quantity.
	Is it cheaper than brick?	No, but when all other elements are factored in such as prelims, scaffolding and smaller foundations it can work out a more cost and time effective solution on certain projects.
	Can Corium be used in marine environments	Yes, with Stainless Steel (from 0 to 300m from the sea) or Magnelis 430 rails (from 300 to 2000m from the sea)
	What is the design life of the system?	In excess of 35 years as per our BBA
	What is the impact strength of Corium?	Suitable for Impact Use Categories II, III and IV, as defined in EAD 090062-00-0404 : 2018, Table G.3
Can the system be fabricated off-site	Yes, please enquire for more information	
Can the system be installed vertically?	Yes, just turn the tile and rail through 90°	
Can the system be installed on a curve?	Yes this can be done in a couple of ways and the tightest radius (with tiles installed vertically) is 2 metres	
Is there any restriction with bond pattern or direction of brickwork?	No, any bond pattern is achievable and direction, including soffits and angled facades	
What are the tolerances of the Corium tiles?	+/- 2mm for any dimension based on a mean of 10	
What fixings are needed for the Corium rails?	5.5mm stainless steel hexagonal headed fixings with a neoprene washer	
What is the minimum cavity required behind Corium?	15mm as required by NHBC and as per BBA	
Corium sizes	What is the longest tile size available in Corium?	327mm *please note production is limited to 400m ² per week
	What is the largest tile size available in Corium?	327 x 215mm *please note production is limited to 100m ² per week
	What is the largest CM.1 one piece corner available?	215 x 102 x 65mm
	What is the largest CM.1B cut & bonded corner available?	215 x 102 x 65mm
	Why can you not make larger tiles?	The factory that produces the Corium tiles cannot manufacture bigger/longer tiles than 215 x 327mm without them distorting during the drying/firing process. Bigger/longer tiles would not fit into the Corium steel profiles due to shape irregularities. The same goes for the pistol tiles used on the One Piece Corners, as they are a thin extruded clay unit, 215 x 102 x 65mm high is the maximum possible without distortion of the unit during the drying and firing process. Corium comprises of a natural clay tile which mechanically fits into a steel profile. The shape of the tile is therefore key to the system working. Any distortion of tiles outside of published tolerances would cause the system to not work. Hence, the size limits for the tiles.
Corium corners & specials	What corner types can you offer?	We offer three corner types: 1) CM.1 one piece corner - this is a purpose made pistol with a metal backing to allow fixing into the Corium rails. It is only available in 215 x 102mm, 90° angle. 2) CM.1A site bonded corner - these are mitred sets for site bonding in situ and can be made at any leg length (up the maximum length of the tile being used on the project) and at any angle. 3) CM.1B factory bonded corner - these are factory cut and bonded corner units, available up to a maximum leg length of 215 x 102mm and at any angle
	Do you supply the glue for bonding CM.1A mitred sets?	No, we recommend you speak to Structural Adhesives in who can supply you their S-2300E, TDS adhesive and can also assist with colour matching to the Corium tile. James Orton @ Structural Adhesive, 0116 289 4655. (Address: Structural Adhesives Ltd, Units 12 13 and 13a Marlow Road Industrial Estate, Great Central Way, Leicester, LE3 2BQ)
	Have you got a special for returning into a soffit?	Yes, our CM.5 Special Soffit tile offers 215 x 65mm to the face, with a 215 x 102mm, 90° return into a soffit or window head.
	Can you provide corners for vertically installed Corium?	We do not have a standard corner for this detail and would recommend either using a flashing / corner trim or using the 215 x 65 x 102mm CM.5 soffit tile through 90°
	Can you offer soldier tiles?	Yes, we have our CM.3 Soldier tile. This a 65 x 215mm unit which spans 3 Corium rails
	Can you offer air bricks?	Yes, our CM.4 air bricks are waterjet cut from standard tiles and we can offer a version with 8 holes (1420mm ² free area) or 9 holes (1625mm ² free area)
Fire	What fire testing does Corium have?	The Corium tile and rail are Euroclass A1 fire rated (supporting documents are available) and the system is classified as Class A1 in the BBA.
	Do we have any test data for boundary wall conditions where the external wall is required to provide a 1 hour fire resistance from the outside (as per Building Regs Part B b4)?	If the façade is within 1m of a boundary wall then the external surface needs to be class B-s3, d0 or better (or A2-s1, d0 if the building has a storey over 18m). Please refer to our test results to BS 476-22:1987 from 2000 for fire resistance. We cannot comment on unprotected areas and the fire resistance of the complete wall build up as required to satisfy clause ADB 13.13. This is for the design team to assess and determine the performance. There is some useful information in the CWCT Fire and Facades guide and the latest amendments to Part B of the Building Regulations
	What is the load bearing capacity per Corium tile?	Approximately 50kg per tile

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Holes/Penetrations & Fixing to Corium	How do you fix signage, etc. to Corium?	The thickness of the tile along the centre-line is 15mm, we would recommend to core drill a hole along the centre of the tile (where it is thinnest) using a Dronco CeraDrill bit (different diameters available). Then, depending on the weight of the object, fix through the hole in the tile into the Corium rail behind - the pullout strength of the system before cracking of mortar is 0.5kN or 50kg, care should be taken not to exceed this. In cases where more strength is required, the operator should use a heavier fastener which penetrates the vertical support as well. These fasteners should be positioned so as not to interfere with the steel backing fasteners.
	How should you cut a hole through Corium?	Holes larger than 12mm should be formed by first removing the tile (if already fitted) in the area of the hole and cutting through the steel with a conventional hole saw. It is recommended that a 20mm deep piece of plywood or timber is screw-fixed to the face of the steel to facilitate centring of the drill. Tiles should then be pieced around the penetration after sealing with polyurethane foam or other suitable sealant.
Eco-credentials & recycling	Is any recycled material used in the manufacture of Corium?	Approximate 5% - any fired tile waste goes back into the start of the manufacturing process at the clay preparation stage.
	Are Corium tiles recyclable?	Yes, they are 100% recyclable. If carefully retrieved, they can be re-used on another Corium façade. Alternatively, they can be re-used as road hardcore. Additionally, any fired tile waste during manufacture goes back into the start of the manufacturing process.
	Are Corium rails recyclable?	Yes, they are made of steel and 100% recyclable.
Colours	Are Corium tiles more ecologically friendly than traditional bricks and cut brick slips?	Yes, Corium tiles use up to 75% less clay material than a traditional brick which reduced the tonnage of natural clay used, increasing the life of the clay quarry. The embodied energy required for clay extraction, extrusion, drying and firing is dramatically reduced compared to brick. Water usage required in the manufacturing process is also reduced. When compared to a cut brick slip, Corium tiles are produced as the finished product, whereas brick slips are normally saw cut from a fired brick with the bulk of the brick then becoming waste. It is also worth considering that due to its reduced weight, 480m ² of Corium tile can be transported on a vehicle which is 3 times more than a typical load of bricks which reduces vehicle movement and pollution.
	How many colours is Corium available in?	Currently over 2000 colours are available from our standard matt range and then also a smaller selection of gloss colours
	Can you match Corium to RAL colours?	We are unable to match to RAL colours, as coating ceramics is a different process to RAL paints. However, if you can provide a physical sample of something (a tile, swatch, etc.) in the RAL colour you like this can be sent to the manufacturer in Germany, whose technicians will attempt to match the sample as closely as possible.
Mortar & Joints	What is the LRV (light reflectance value) of this Corium colour?	We do not have the LRV of any Corium colours, this would need to be measured by the Architect using a spectrophotometer.
	What mortar should be used with the Corium system? Can the system be mortarless?	We recommend the Parex Historic KL mortar range - you can buy this from Parex direct. Arthur McNiven @ Parex 07971 956 276, arthur.mcniven@parex.co.uk No, the system must be pointed
Movement & Deflection	Are movement joints required?	Yes - every 12 metres vertically and every 9 metres horizontally. Movement joints in the building substructure should be followed through the Corium façade.
	Do the interlocking rails needed to be broken at horizontal movement joints?	Yes - please refer to our movement joint standard details
	What is the deflection calculation for Corium	The mid-span deflection calculation for Corium is L/200 and cantilever deflection L/150 (where L is the span)
On Site & Installation Queries	Do I need to build a sample panel on site?	Yes! A minimum 1m ² panel should be constructed prior to ordering Corium. A sample area for comparison against the original sample and approval should then also be built once you receive your main production run tiles.
	Is it ok if the Corium is installed upside down?	Corium rails should not be installed upside down; although it effects nothing structurally it is still consider a no go because of the freeze/thaw (and to a lesser extent the hygrothermal) tests. The mortar is breathable and as such, moisture can travel through it, in and out. An upside down rail could get moisture trapped in the "v" section (now at the bottom of the rail instead of the top). This could have then blown the mortar out during the freeze/thaw testing. All of the testing for the system therefore has been with the rails being laid with the "v" section at the top and the pip & hook section at the bottom.
	How high can I stack pallets on site? What are the fixing centres for the Corium rail	Packs of rails can typically arrive in bundles 2 packs wide x 2 packs high; these bundles can be stacked 2 on top of one another. Tiles can be stacked up to 4 pallet high. Corners and specials should not have anything stacked on top of them but could be the 4th pallet on top of a stack of 3 pallets of tile. Maximum 600mm centres in a diamond pattern - please refer to our fixing pattern drawing