



Mike Patching Product Development



Manufacturing Supply Chain_

Barlo

**Raising our Game
PolyPipe Aug 2018**



About Us



Number of employees: circ. 400

- Newport site: 360
- Ireland and Europe: 40

- Heating Manufacturing business in the UK, Continental Europe and Ireland. This year we celebrate 50 years of manufacturing radiators.
- QRL radiator group turnover: Over £50m in 2017
- Sole manufacturing facility in Newport for panel and designer radiators.
- Distribution facilities in Ireland & Belgium serving European markets
- Serving China and USA from Newport

Our Manufacturing Capabilities



- A £150m purpose-built, highly automated factory since 2006
- The most technically advanced radiator manufacturing plant in the world.
- 110,000 square metres
- Capacity of over 4 millions per year, making us the UK's largest panel radiator manufacturer.
- Accredited to ISO:9001 & ISO:14001

Manufacturing and Sustainability



- Minimising our carbon footprint
- 100% British sheet steel from less than 40 miles away. The only one in the UK.
- Recover energy from painting process to heat the building
- Target in line with BS EN ISO 14001 – less than 1% of the carbon footprint of our Compact radiator comes from our manufacturing process
- Five Star Environmental Award from British Safety Council.



Results That Give Confidence



- First radiator manufacturer to independently verify their output performance by Energy Saving Trust
- A landmark development leading to the creation of a brand new category by Energy Saving Trust
- Supporting a shift in industry attitude
- The ONLY radiator on the Energy Savings Trust Product Register.

Dutch Building Energy Regulator Certification



Codering:	20181111GKRVUW
Betreft	Gecontroleerde Gelijkwaardigheidsverklaring
Toepassing:	NEN 7120 (woningen en utiliteit)
Fabrikant:	Quinn
Type:	Quinn 25 mm pitch steel panel radiator
Ingangsdatum verklaring	7-03-2018
Geldigheidsduur verklaring	

Dutch Building Energy Regulator BCRG certification that QRL 25mm pitch rad has a 5% energy gain (Energy Rating 1) Awarded

Afgifterendementen

Hoogte van de rekenruimte	Afgifterendement		
	Tot 8 m.		8 m. en meer
Plaats radiator in de ruimte	$\theta_{emg,avg} \leq 50 \text{ }^\circ\text{C}$	$\theta_{emg,avg} > 50 \text{ }^\circ\text{C}$	Alle $\theta_{emg,avg}$
Radiatorverwarming en/of convectorverwarming voor binnenwand of of binnenraam	1,0	0,95	0,85

$\theta_{emg,avg}$ is het gemiddelde van de ontwerpaanvoer- en retourtemperatuur voor warmteafgifte, in $^\circ\text{C}$.

Verklaring alleen van toepassing als in de rekenzone de radiatoren in alle verblijfsruimten van de woning of de verblijfsruimten in een rekenzone (U-bouw) voor een binnenwand of binnenraam zijn geplaatst.

Sustainable Development



Offsite Construction Key Driver

Sustainable Development



Victorian House

Minimum boiler
output = 10.8kW



1970's House

Minimum boiler
output = 6.6kW



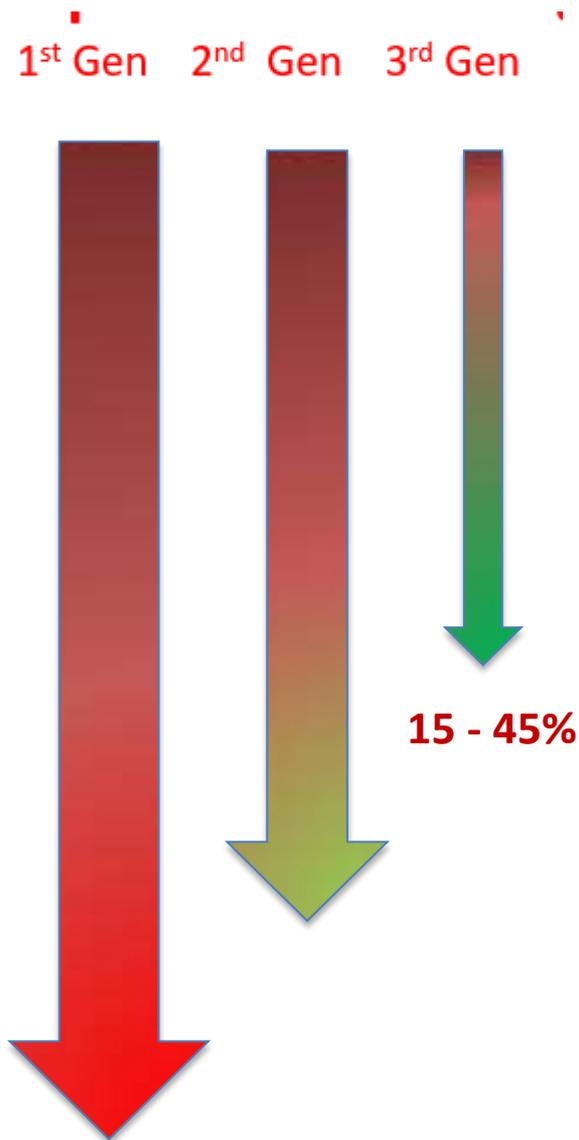
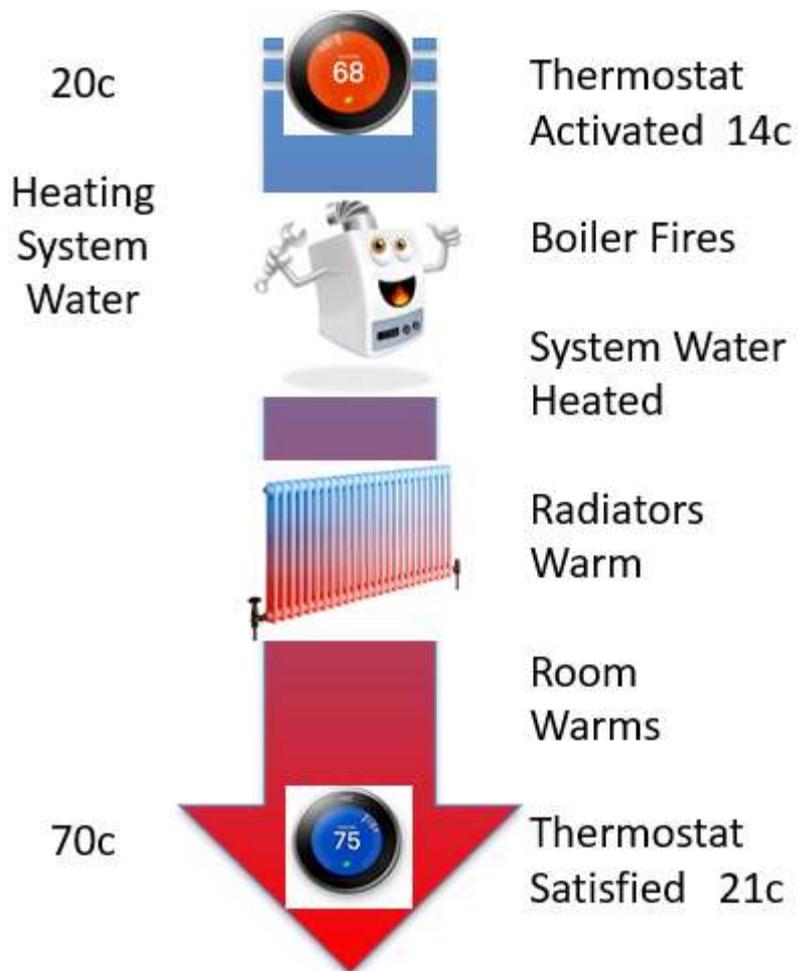
2006 House

Minimum boiler
output = 3.9kW

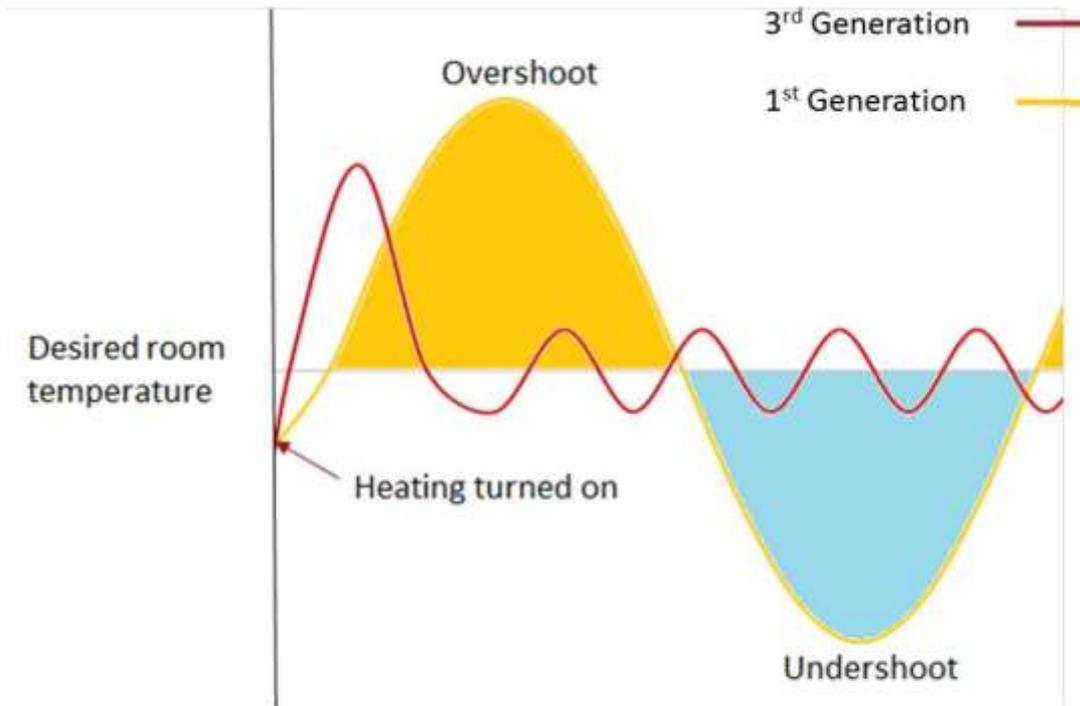
All 80m² floor space, similar shape and -3°C outside, 22°C inside

Offsite Construction Reduced Energy 25%

Space Heating Cycle



Building Fabric – Dynamic Response

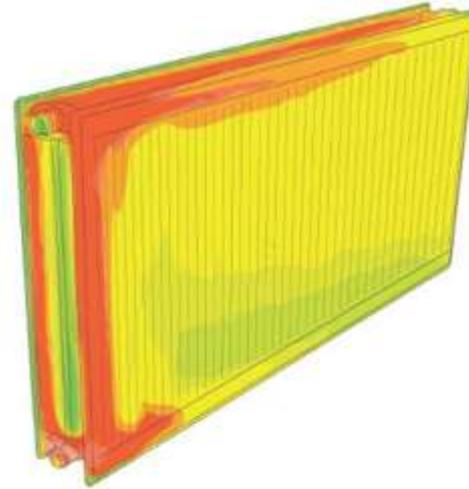


Reduced Heat Loads

Response Rate - FASTER



QRL after 5mns



Competitor
after 5mns



Barlo radiators emit more radiant heat faster than our competitors.

Manufacturing Supply Chain_

**Bespoke Space Heating Solutions
Electric / Wet**

**London Sites Supplied Since 2015
Royal Wharf Volumetric 2000 Apartments
Vision Modular – Pod Applications**

Barlo Range: Design Radiators



- The only UK manufactured Design radiators
- Shortest lead times, the best on the market for radiators in a bespoke colours
- Available in white and over 180 colours.

Barlo Range: Premium Panel Radiators





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Thankyou

