Metal roof refurbishment:

A specifier's guide to good practice.

Accredited CPD Course

CPD Provider 21638



Performance Coatings by

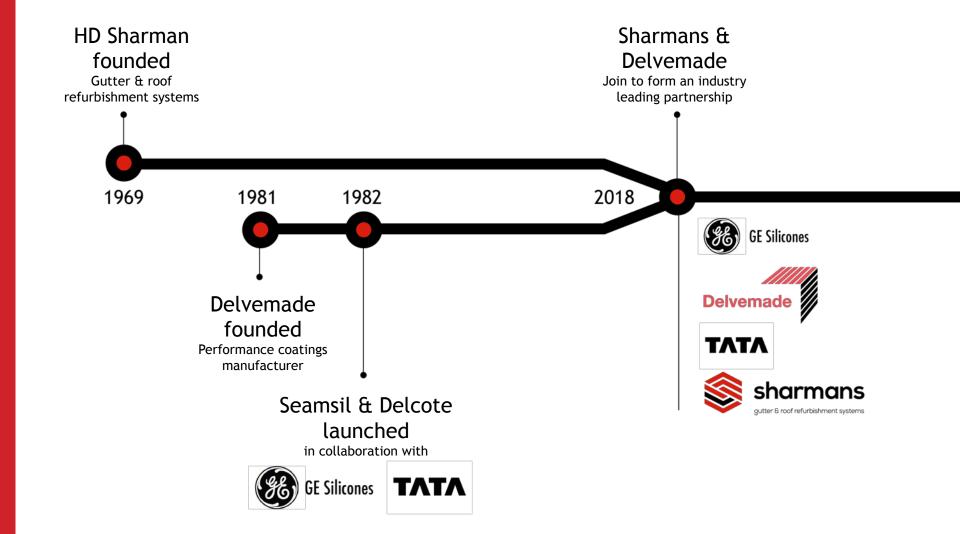
Delvemade

Agenda

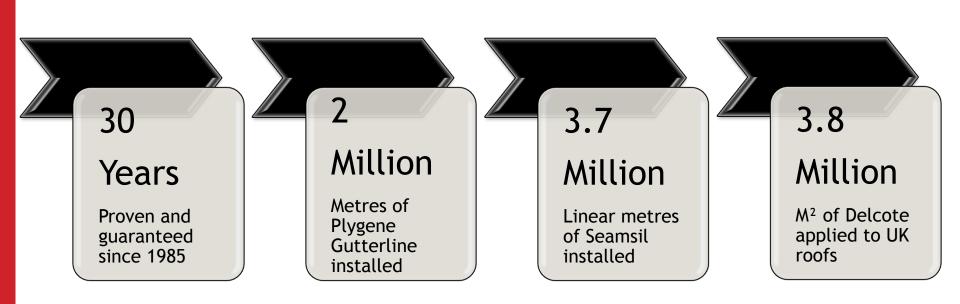
- 1. Introduction to Sharmans
- 2. The lifecycle of a metal roof
- 3. Points of failure
- 4. Decision to replace or refurbish
- 5. Refurbishment considerations
- 6. Sharmans solutions
- 7. Virtual demonstration
- 8. Q&A and close







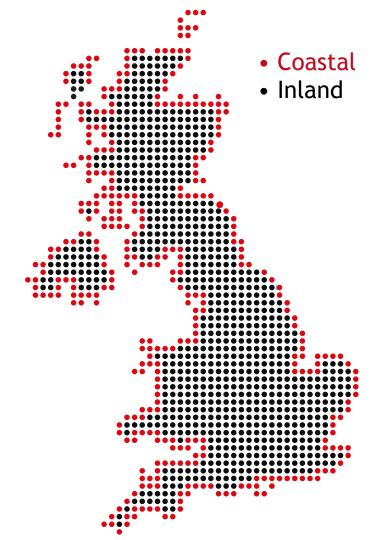
Established in both gutter and roof refurbishment



Metal roof refurbishment

New metal roof BS 5427:2016 +A1:2017

- **Building location?**
- What colour?
- Protective coating?



New metal roof BS 5427:2016 +A1:2017

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- Protective coating?

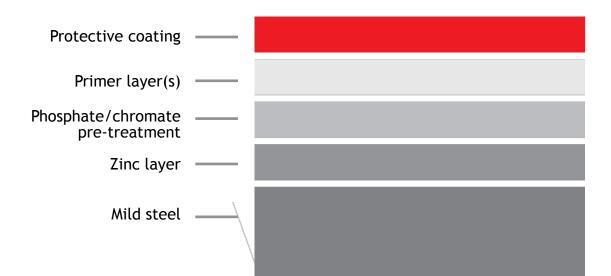


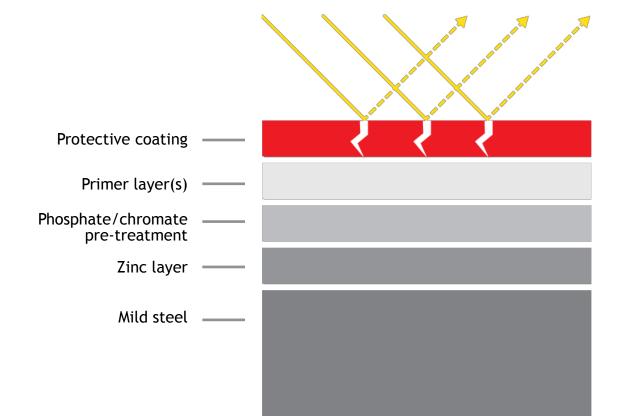
Coastal		Inland	
Signature	30yrs	Signature	40yrs
Classic & Matt	25yrs	Classic & Matt	30yrs
Solid, Metallic	25yrs	Solid, Metallic	35yrs
Element	20yrs	Element	25yrs

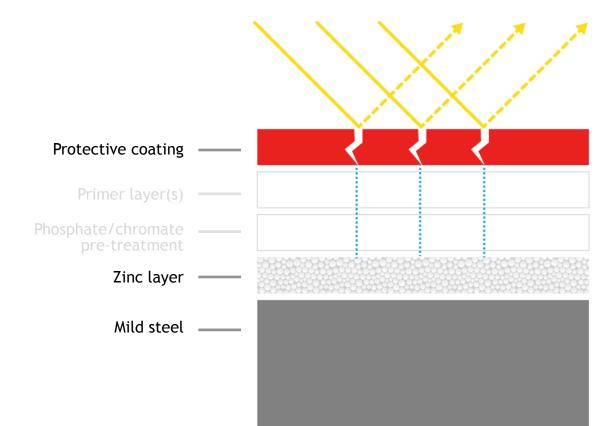
New metal roof BS 5427:2016 +A1:2017

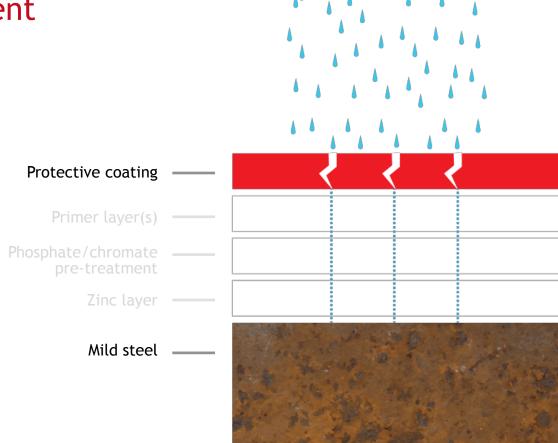
- Building location?
- What colour?
- Protective coating?





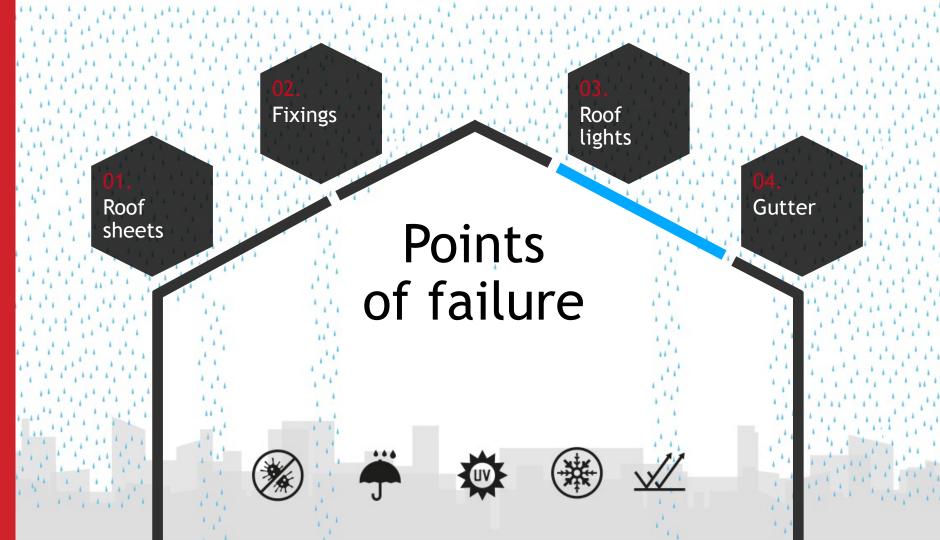






Metal roof refurbishment:

Points of failure

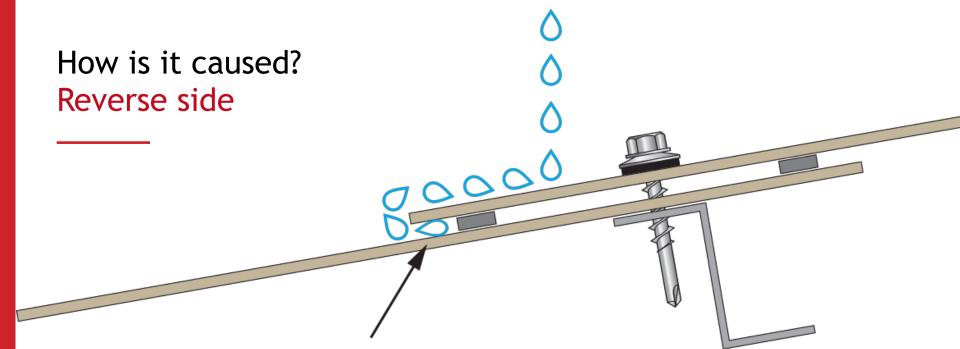






How is it caused? Top side





Water is allowed to enter the unsealed lap and is held by capillary action.

Where does it occur?

Overlap



Gutter edge



Flashing



When is it treatable?

Treatable

Not treatable





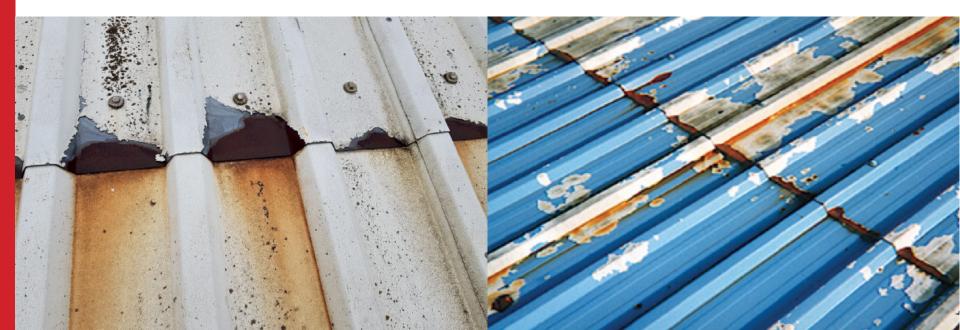
Coating micro checking



Coatings failure

PVC Plastisol

Pvf2 / Polyester



When is the coating treatable?

Treatable Not treatable

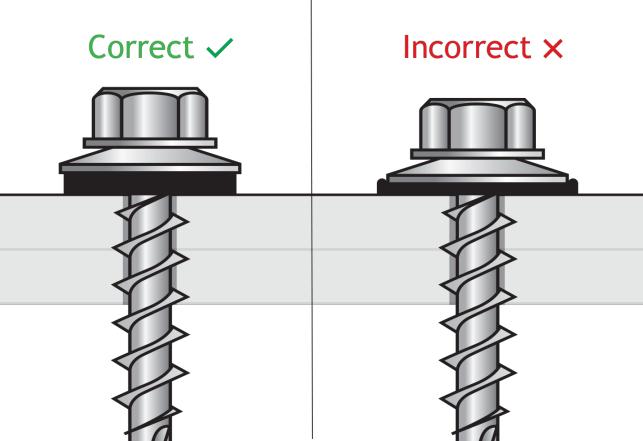




Recommended fastener material to suit EN12944 exposure categories

Corrosivity Category	C1 - Very low	C2 - Low	C3 - Medium	C4 - High	C5-1 - Very high (industrial)	C5-M - Very high (Marine)	Swimming Pools & Chemical Plants	
Examples of typical environments in a temperate climate (informative only).	Interior - Heated buildings with clean atmosphere.	Rural areas - Low levels of pollution - Unheated buildings where condensation may occur.	Urban and industrial areas moderate pollution. Coastal area with low salinity - Production rooms with high humidity and some air pollution.	Industrial and coastal areas with moderate salinity.	Industrial areas with high humidity and aggressive atmosphere. Permanent condensation and high pollution.	Coastal and offshore areas with high salinity, permanent condensation and high pollution.	Within pool halls and certain chemical processing plants - fasteners that penetrate or are below vcl and exposed to chlorine vapour.	
A5 1.4547 Max Warranty	40+	40+	40+	35	25	25	20	
A4 - 316 1.4401 Max Warranty	40+	40+	40	30	20	X / 15	×	
A2 - 304 1.4301 Max Warranty	56	1 /25	26	X ₅ /	X ₁₈ /	X	X	
KEY	V		V		×		X	
	Suitable but not economic		Recommended	F	Requires approval		Not suitable	

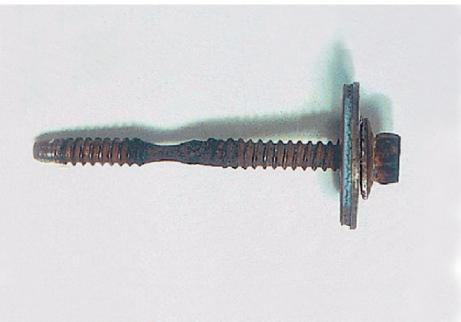
Fixings - correct installation



When are fixings treatable?

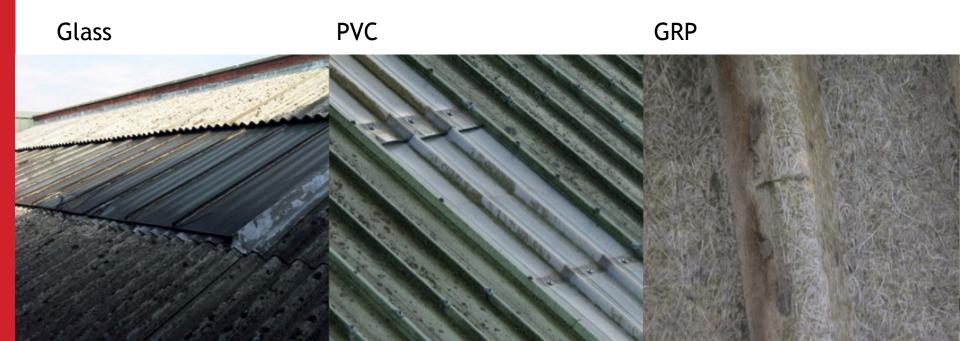
Treatable Not treatable







Rooflights - material selection



When are rooflights treatable?







Replacement:

Over sheeting

- Building regulations
- Lifecycle and refurbishment considerations
- Structural loading
- Condensation risk
- Time and Cost
- Replacement rooflight considerations



Replacement: Roof renewal

- Building regulations
- Lifecycle considerations
- Waste
- Structural loading
- Cost
- Disruption
- Health & safety



Replace or refurbish?

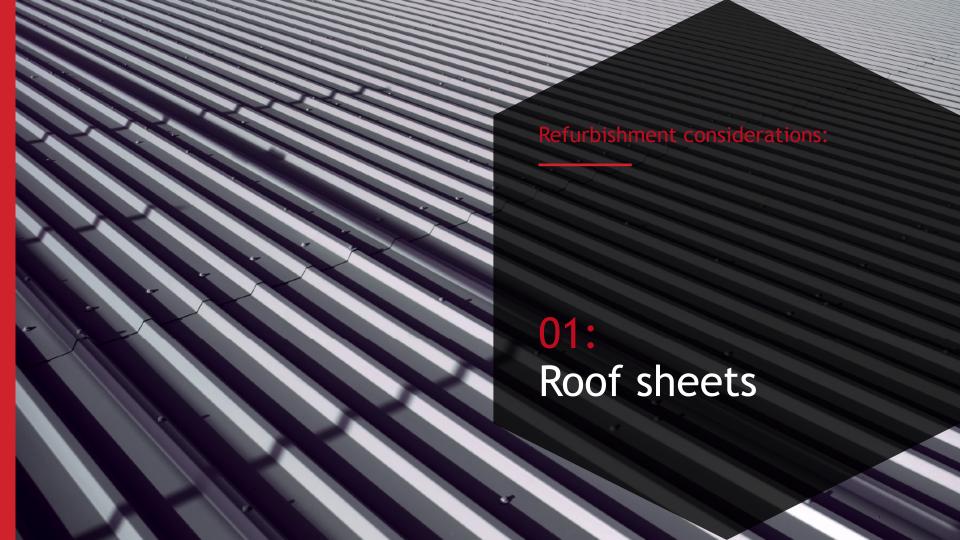
Refurbishment:

Benefits

- Building regulations not applicable
- No additional structural loading
- Minimal disruption to building
- Minimal disruption to owner/tenant
- Quicker
- More cost effective



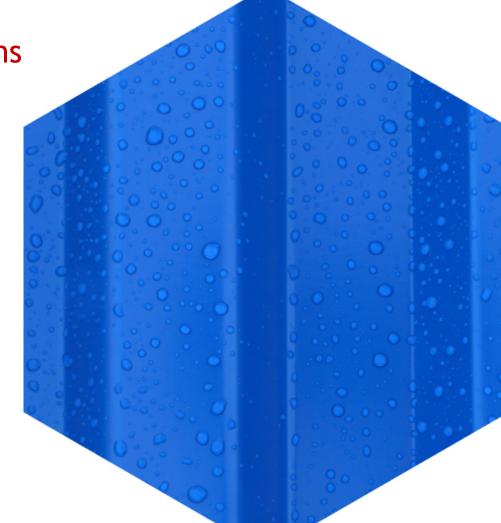
Fixings Roof lights Roof sheets Refurbishment considerations sharmans



Refurbishment considerations

Coating technology

- Sustainability of coating
- Thermal and UV stability
- Adhesion/compatibility
- Movement accommodation and flexibility
- Proven track record

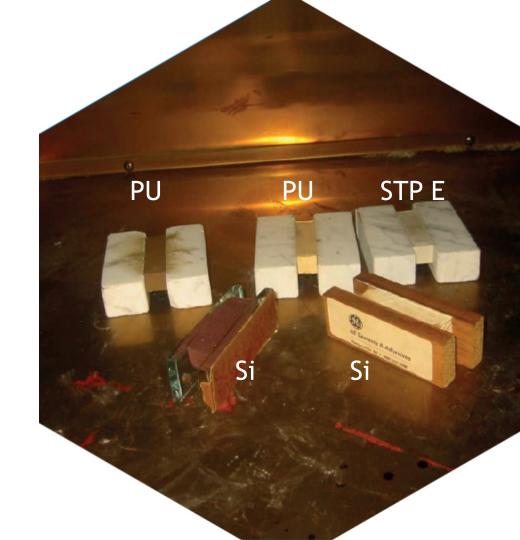


Silicone sealants vs. PU and hybrids

- Thermal stability

Independent testing by:





Thermal stability: high heat

- Temperature = 60° C (140° F)



UV stability

- 12.6 hr QUV cycles repeated for 150 days
- Shows potential damage caused by sunlight, heat, rain and condensation



Life time flexibility

UV / temperature / weather stability, Atlas South Florida long term exposure study



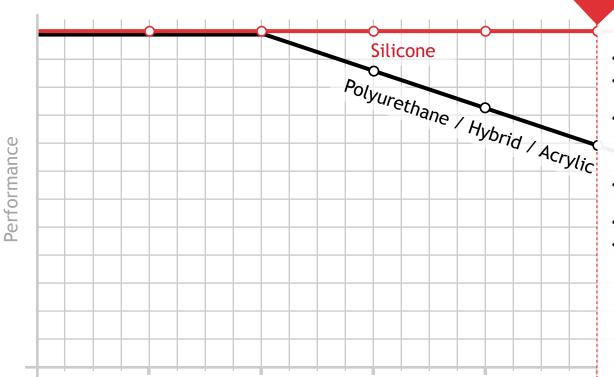




Silicone - a clear performance winner

Delcote® single point 25 year guarantee





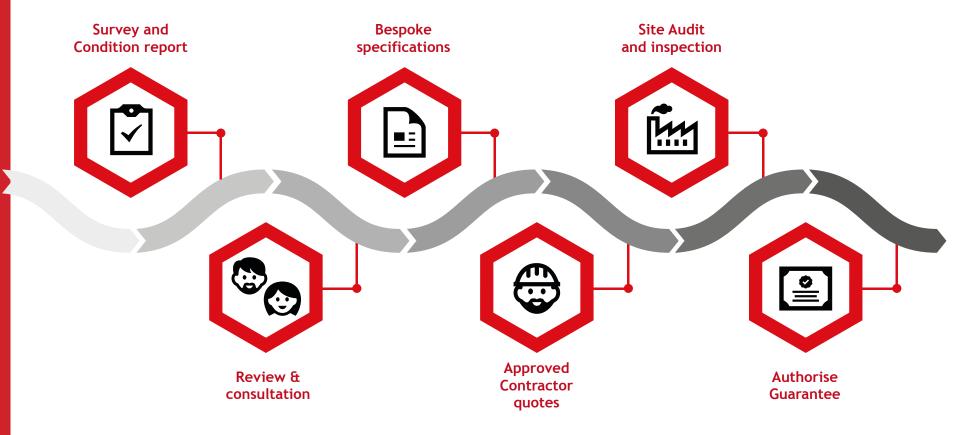
- 100% pure silicone
- Tried & tested in the UK for over 30yrs
- The only 25 year single point guarantee on the market which cover the roof & gutter
- 50 years of trading history
- UK manufacture
- Endorsed by TATA steel

Lifecycle

Metal roof refurbishment

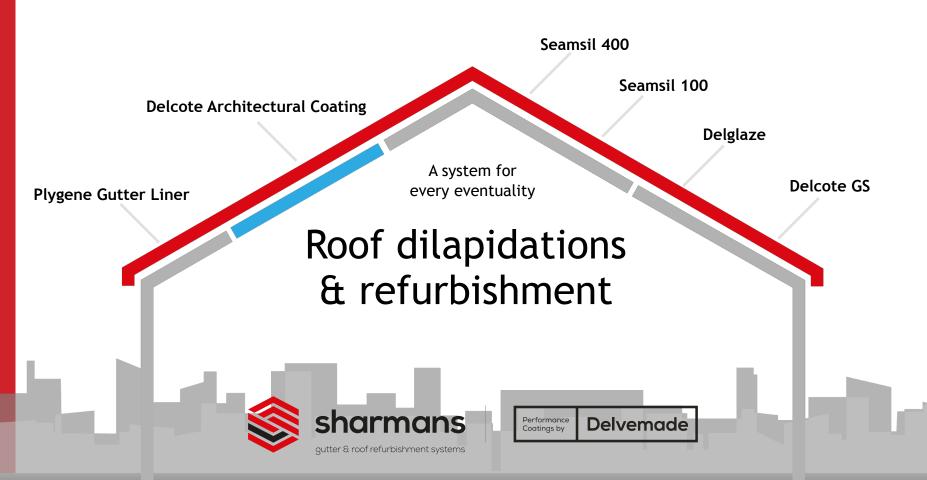
Sharmans lifecycle support

How we support you...



25 Year Single Point Guarantee

Product Guarantee



Your choice of guarantees

Sharmans offer a choice of either a single point guarantee or a product guarantee to meet your specific project needs.

Both types of guarantee are available to specifiers and **Approved Contractors**









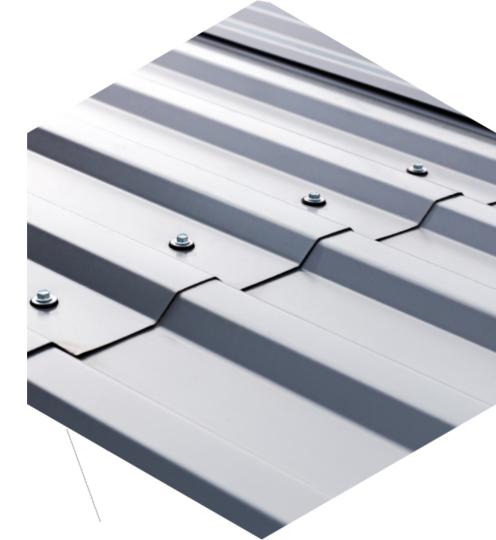




A specifier's guide to good practice.

Thank you.





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Replace with new or encapsulate

Replace

Encapsulate





Replace new or recoat?

Replace Recoat Refurbishment considerations - rooflights