

PPGI trapezoidal sheet is the coloured metal roof: trapezoidal profile rolled from pre-painted galvanized coil — zinc underneath, a 25 µm polyester (or SMP / PVDF) colour coat on top — in the RAL shades of industrial and residential building. We roll it from stock coil in RAL 9002, 9010, 3009, 7016, 6005 and 1018 and from any RAL to order, in 0.40–0.70 mm and all our profiles, with colour-matched flashings, screws and closures, in lengths to 14 m.

6 stock RAL colours	PE · SMP · PVDF	27/150 · 38/151 · 45/333	0.40–0.70 mm	Matching flashings
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A coloured roof is a PPGI roof: the paint is applied to the coil at the mill, so the colour is even from the first sheet to the last flashing. We keep the six stock colours in coil and roll the roof, the walls and the trims from the same batch.

GRADES, STANDARDS AND TOLERANCES

Grade / standard	Yield (MPa)	Note
PPGI PE 25 µm on DX51D+Z100	≈ 140 (not guaranteed)	stock; roofs and walls inland — 10–15 yr
PPGI PE on Z140	≈ 140	exposed sites, better edge life
PPGI SMP / HDP 25 µm on Z140–Z275	≈ 140 / 280	warranty projects — 15–25 yr
PPGI PVDF 25–35 µm on Z275	≈ 140 / 280	Gulf coast, façades — 25–30 yr, to order
PPGI on S280GD	280	designed roofs, 45/333 spans

Paint systems per EN 10169; colour to RAL 841-GL, ΔE ≤ 1 within a batch; T-bend ≤ 2T, gloss 30–40 (matt 5–15 on request).

STOCK COLOURS AND WHAT EACH IS USED FOR

RAL	Colour	Solar reflectance	Typical building	Note
9002	Grey white	≈ 70 %	warehouses, factories, panels	the standard; cool roof
9010	Pure white	≈ 75 %	food, cold-store, retail	brightest; shows dirt
3009	Oxide red	≈ 30 %	houses, rural, tile-look roofs	light-fast iron oxide
7016	Anthracite grey	≈ 25 %	modern architecture, fences	hot in sun; matt available
6005	Moss green	≈ 25 %	agricultural, landscape-sensitive	planning-friendly
1018	Zinc yellow	≈ 55 %	branding, safety	HDP / PVDF outdoors
Other RAL	any	—	projects	10 t coil, 2–4 weeks

Dark colours reach 70–80 °C in summer sun — insulate or ventilate below and allow thermal movement in long sheets.

COATING SYSTEMS AND LIFE

System	Top coat	Life to first maintenance (C3)	Colour retention	Specify for
PE polyester	20–25 µm	10–15 yr	fair (dark colours fade)	standard roofs and walls, stock
SMP	25 µm	15–20 yr	good	coastal, 15-yr warranty
HDP	25 µm	20–25 yr	very good	high UV, dark colours
PVDF	25–35 µm	25–30 yr	excellent	Gulf, façades, colour guarantee
Matt-textured PE	25 µm	10–15 yr	hides marks	architectural 7016 / 9005

All systems on Z100–Z275 zinc; the zinc class matters as much as the paint at cut edges and scratches.

STANDARDS

EN 14782 — self-supporting metal sheet for roofing and cladding · EN 10346 — DX51D / S280GD + Z100–Z275 substrate · EN 10169 — coil-coated (PPGI) substrate · EN 1993-1-3 — cold-formed design; EN 10204 3.1