Claims

1. A spandrel panel comprising a first substrate, an intermediate film of polymeric material and an opaque second substrate, wherein the first substrate is coated with at most two layers deposited on a surface located on a side of the intermediate film of polymeric material and comprising at least a top dielectric layer, and wherein the second substrate has a visible light transmittance of at most 4%.

2. The spandrel panel of the preceding claim, characterized in that the top dielectric layer is characterized by a refractive index at least equal to 2.0, and preferably at least equal to 2.1, and by an absorption coefficient lower than 0.1, and preferably lower than 0.05.

3. The spandrel panel of one of the preceding claims, characterized in that the top dielectric layer is an oxide layer, a nitride layer or an oxynitride layer, comprising at least two different elements chosen from silicon, titanium, zinc, tin, zirconium, aluminum and niobium.

4. The spandrel panel of one of the preceding claims, characterized in that the top dielectric layer is mixed titanium-zirconium oxide or mixed silicon-zirconium nitride.

5. The spandrel panel of one of the preceding claims, the top dielectric layer of which has an optical thickness at least equal to 40 nm, and preferably at least equal to 50 nm, and of at most 110 nm, and preferably of at most 80 nm.

6. The spandrel panel of one of the preceding claims, characterized in that an underlayer is deposited on the first substrate between said substrate and the top dielectric layer.

7. The spandrel panel of one of the preceding claims, characterized in that the underlayer is an oxide, nitride or oxynitride layer comprising at least two different elements chosen from silicon, titanium, zinc, tin, zirconium, aluminum and niobium.

8. The spandrel panel of one of the preceding claims, characterized in that the underlayer is a mixed zinc-tin oxide.

9. The spandrel panel of one of the preceding claims, characterized in that the geometric thickness of the underlayer is at least equal to 5 nm, and preferably at least equal to 6 nm, and smaller than or equal to 30 nm, and preferably smaller than or equal to 25 nm.

10. The spandrel panel of one of the preceding claims, the first substrate of which is characterized by an energy transmittance of light of wavelength comprised between 300 and 2500 nm that is higher than 0.68, preferably higher than 0.70, more preferably higher than 0.72 and even more preferably higher than 0.74.

11. The spandrel panel of one of the preceding claims, characterized by a reflectance measured on the exterior side comprised between 10 and 20%, and preferably between 12 and 18%.

12. The spandrel panel of one of the preceding claims, characterized by a color in exterior reflection the parameter a* of which is comprised between -4 and 0, and preferably between -2 and -1, and the parameter b* of which is comprised between -13 and -6, and preferably between -12 and -7.

13. The spandrel panel of one of the preceding claims, the second substrate of which is an ordinary glass made opaque by means of a polymeric film or an opaque synthetic substrate.

14. The spandrel panel of one of the preceding claims, wherein the intermediate film of polymeric material has a thickness comprised between 0.3 and 2 mm and is chosen from polyvinyl butyral (PVB), ethylene vinyl acetate (EVA), polyvinyl chloride (PVC), polyurethane (PU) or ionomers.

15. The spandrel panel of one of the preceding claims, wherein photovoltaic cells are inserted between the first substrate and the second substrate.

16. The spandrel panel of the preceding claim, the photovoltaic efficiency of which is decreased by at most 20%, preferably by at most 15% and even more preferably by at most 10% with respect to a clear glass under standard test conditions (STC).