arcon sunbelt dynamic

ADDING ANOTHER DIMENSION TO SOLAR CONTROL GLASS

EXCLUSIVE NEW DEVELOPMENT IN 2021 – FOR MAXIMUM DESIGN FLEXIBILITY

The trend towards using larger panes of glass in architecture imposes special requirements on glazing products, particularly if architects and builders want to clad entire facades with just a few panels of glass. This is why arcon developed sunbelt dynamic, the world's first high-quality selective solar control glass where the total solar energy transmittance (solar gain) and light transmission are infinitely variable within one glass pane, bringing a completely new and exclusive dimension to solar control and design flexibility in 2021.

Until now it has been almost impossible to satisfy the various requirements for privacy screening or light transmission with just a single pane of glass, because large glass panes are often used to clad very different areas in the building interior. Whereas at ceiling and floor level, for example, highly effective solar control coatings with low g-values are mostly required, in the principal field of vision and/or at the eye level of building users the objective is often to achieve moderate sun protection with maximum light transmission.

For the first time, arcon sunbelt dynamic now allows the innovative combination of these different selective solar control coatings within a single pane of glass. In conjunction with customised, needs-based sun protection, this unique variation of the visual characteristics ensures maximum design flexibility. Why not see for yourself.

YOUR KEY BENEFITS AT A GLANCE

- Adds a completely new dimension to solar control and design flexibility for builders and architects
- Combination of different selective solar control coatings within one pane
- Seamless transitions and colour consistency between different areas of glass
- Complete facades can be clad with just a few panes of glass

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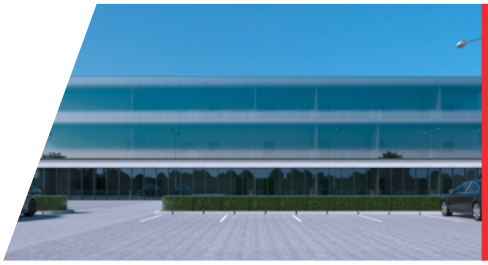


WHAT WE CAN DO

- Innovative manufacturing process
- Unique variation of visual characteristics
- Support with design issues

EXAMPLE sunbelt dynamic 7050

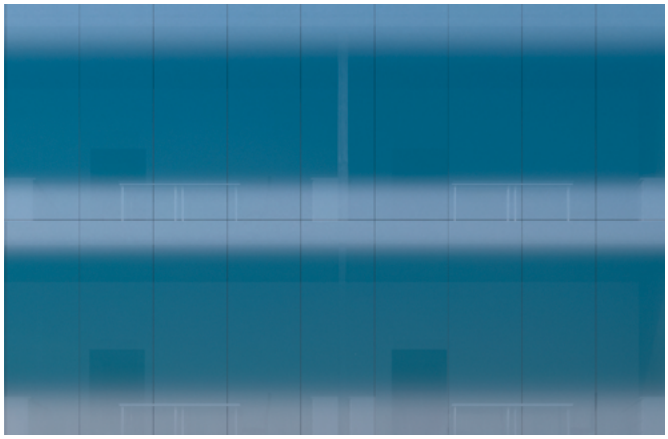
Zone A: **High level of daylight with moderate solar control** (in the top section of floor-to-ceiling glazing)

- Light transmission: 70%
- Light reflection: 13%
- g-Value: 37%

Transition zone of around 300 mm

Zone B: **Optimised solar control**
(in the lower section of floor-to-ceiling glazing)

- Light transmission: around 47%
- Light reflection: around 20%
- g-Value: around 25%



OVERVIEW OF TECHNICAL DETAILS

Glass substrate	Glass thickness (mm)	Visible light area			Solar radiation	g-Value (%)	Colour rendering index R_a	U_g-Value (W/m^2K) (90 % argon)	Thickness (mm)	Weight (kg)
		Transmission (%)	Reflectance (%)		Absorption (%)					
			External	Internal						
sunbelt dynamic // 7060		sunbelt dynamic // A7060								
Float glass	6 16 4	63	15	13	29-41	34	NPD	1.0	26	25
sunbelt dynamic /// 7060		sunbelt dynamic /// A7060								
Float glass	6 14 4 14 4	58	17	15	33-44	31	NPD	0.6	42	35
sunbelt dynamic // 7050		sunbelt dynamic // A7050								
Float glass	6 16 4	59	17	13	29-45	32	NPD	1.0	26	25
sunbelt dynamic /// 7050		sunbelt dynamic /// A7050								
Float glass	6 14 4 14 4	53	19	15	33-48	29	NPD	0.6	42	35
sunbelt dynamic // 7040		sunbelt dynamic // A7040								
Float glass	6 16 4	52	21	13	29-49	28	NPD	1.0	26	25
sunbelt dynamic /// 7040		sunbelt dynamic /// A7040								
Float glass	6 14 4 14 4	47	22	16	33-51	26	NPD	0.6	42	35

WE'RE HERE TO HELP.

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