Clear Safety & Security Films
Optically Clear Anti-Fragmentation Window Film

For two decades, Hanita Coatings has specialized in the production of multi-laminate safety and security window films, designed to protect people and property against flying glass shards.

Hanita's SafetyZone safety and security films are renowned for their optical clarity and cleanliness—the result of top grade polyester, our proprietary transparent adhesive, and tight adherence to demanding ISO 9001 quality-assurance standards.

SafetyZone films are consistently distortion-free, and without the yellowish hue common to many other safety films on the market.

Why do professional installers prefer SafetyZone films? Because SafetyZone delivers on performance, price, and installation-friendly flexibility.

Interior Safety   PS

Clear Safety Zone films span the gamut of thicknesses from 4, 7, 8, 12 and 15 mil.
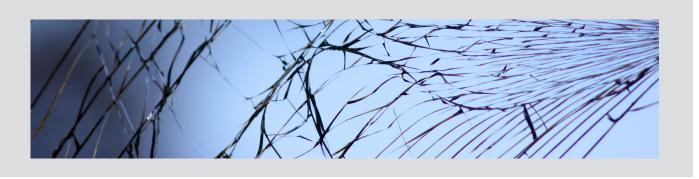
4 Mil	Clear		7 Mil	Clear
8 Mil	Clear		12 Mil	Clear
15 Mil	Clear			

Exterior Safety   PS   PZ

Films for exterior use on glass and also on polycarbonate or PMMA surfaces.

| 4 Mil | Xtra | | 4 Mil | Xtra PolyZone |
| 7 Mil | Xtra | | | |

SafetyZone Clear films provide

- **Increased protection from glass** shattered by impact, blast, crime or natural disaster
- **Substrate compatibility** with glass, mirrors, or plastic & acrylic surfaces
- **Superb optical clarity** for no compromise vision

Optical and Solar properties**	4 Mil (Interior)	7 Mil (Interior)	8 Mil (Interior)	12 Mil (Interior)	15 Mil (Interior)	4 Mil Xtra (Exterior)	7 Mil Xtra (Exterior)	PolyZone 4 Mil Xtra (Exterior)
Item Number	R12306T	R19801T	R22301T	R32303T	R39803T	R12100X	R19600X	R1210XP
Visible light transmitted (%)	89	89	88	87	87	88	88	88
Visible light reflected (%)	10	10	11	11	11	9	10	10
Ultraviolet block (%)	96	96	99	99	99	99.9	99.9	100
Total solar energy reflected (%)	9	10	9	10	11	10	9	10
Total solar energy transmitted (%)	81	81	80	78	78	80	80	80
Total solar energy absorbed (%)	10	9	11	12	11	10	11	10
Shading coefficient	0.96	0.96	0.95	0.94	0.94	0.96	0.96	0.96
Total solar energy rejected (%)	16	16	17	18	18	20	18	17

Mechanical properties	4 Mil (Interior)	7 Mil (Interior)	8 Mil (Interior)	12 Mil (Interior)	15 Mil (Interior)	4 Mil Xtra (Exterior)	7 Mil Xtra (Exterior)	PolyZone 4 Mil Xtra (Exterior)
Thickness (Milli-Inch)	4	7	8	12	15	4	7	4
Tensile Strength at Break (PSI)	28,500	26,000	28,500	28,500	28,500	28,500	26,000	28,500
Break Strength (lb/inch)	112	180	224	336	410	112	180	112
Elongation at Break (%)	125	140	125	125	140	125	140	125
Peel Strength (lb/inch)	7	7	7	7	7	7	7	1-2
Accreditations	1,2,3,4,7	1,2,4	1,2,4,7	5,6,8,9,10				

** Performance results are calculated on 3mm glass using NFRC methodology and LBNL Window 5.2 software, and are subject to variations in process conditions within industry standards and are only intended for estimating purposes.

Accreditation Key:
International glass safety standards:
1. EN 12600–European glass impact test
2. ANSI Z-97 1 US break-safe test
3. BS 6206 British glass impact test
4. CPSC 1201 US break-safe test, more rigorous than ANSI
5. EN 356 European test for resistance to manual attack
6. DIN 52290 German impact test using 9lb steel ball drop
7. GSA level C blast testing
8. UL 972 Standard for Burglary Resisting Glazing material

safety & security

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