ADOTTA ITALIA GLASS AND ARCHITECTURE – STC RATINGS CHART

Glass has been associated with architectural ingenuity since the 19th century and is today considered a "high-tech" material, functional yet refined, always appreciated for its transparency.
The fascination which glass seems to inspire in designers can perhaps be explained by its aesthetics and functions, both complimentary and contradictory at the same time.
Today, one of the major trends of contemporary architecture is to link interior space to the exterior with minimum compromise. Thanks to the important technical advances of recent year, 10 years ago ADOTTA Italia realized that glass has come to be regarded as the ideal medium for this concept. Glass is the material which balance light, transparency and appearance with the practical functions of safety and security, acoustic insulation, thermal insulation, solar control and so on.
In consideration of the above ADOTTA Italia has chosen to source the glass only with high skilled and technologically advanced float glass manufacturers and glass transformers. Quality all the way from raw material to finished project being ADOTTA Italia's leading rule.
Besides the capacity to provide for every project the Architect's specification glass product, the most common type of glass offered are:

- 10 mm-3/8" tempered clear and extra clear (Low-iron contain) float glass
- 12 mm-1/2" tempered clear and extra clear (Low iron contain) float glass
- 5+5mm laminated clear and extra clear (Low-iron contain) float glass
- 6+6mm laminated clear and extra clear (Low-iron contain) float glass

Tempered glass is produced following UNI ISO EN 12150 tested for: High temperature,
Humidity, Condensation and radiation, and is classified 2(B)2 following EN 12600 Safety Glass reducing risk of injury.

Laminated glass are produced following UNI ISO EN 12543 requirements, points 1, 2, 4, 5, and 6 tested for: High temperature, Humidity, Condensation and radiation, and is classified 2(B) 2 following: EN 12600 Safety Glass reducing risk of injury

Moreover both basic glass products meet the following Certifications:

EUROPE:
- EN 572-1 for the physical and mechanical properties
- EN 572-2 concerning the float productions standards

NORTH AMERICA:
- (ANSI) Z97.1: Standard for Safety Glazing Material used in buildings
- (CPSC) 16 CFR, 1201: Safety Standard for Architectural Glazing Materials

ACOUSTICAL PERFORMANCE OF GLASS AND WALL CONSTRUCTION
STC RATINGS CHART

	OVERALL THICKNESS	CONSTRUCTION SPACE	STC VALUE
LAMINATED GLASS	3/8" (10mm)	0.030 P.V.B.	36
	3/8" (10mm)	0.060 P.V.B.	37
	1/2" (12mm)	0.030 P.V.B.	38
	1/2" (12mm)	0.060 P.V.B.	39
	5/8" (16mm)	0.030 P.V.B.	40
MONOLITHIC GLASS	3/8" (10mm)		34
	1/2" (12mm)		36
	9/16" (15mm)		38
	5/8" (16mm)		39