



## Specialty Joist Options

Special profile steel joists can create architecturally unique roofline designs that are practical, economical, and match the architect's vision. Four of the most common specialty joists are the gable, scissor, bowstring, and arch.

"But of course, designers and architects are not limited to the specialty joists commonly offered," says Alex Therien, AIA LEED AP, Market Development Manager for New Millennium Building Systems. "Most joists are a derivation of the four profiles — you can use your imagination to execute a custom design vision. New Millennium will work with you to complete a constructability review and analysis."

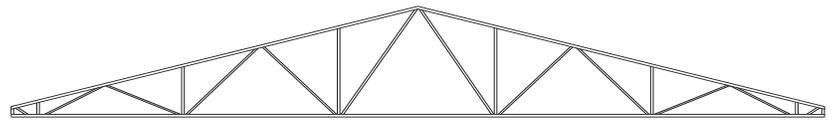
Let's take a look at the Gable, Scissor, Bowstring, and Arch joists offered by New Millennium and the benefits of each. While the choice to use a specialty joist is usually aesthetic, each type has specific advantages.

**Gable:** Sloped roofline, flat ceiling. Roof drainage is helped by the slope of this special joist.

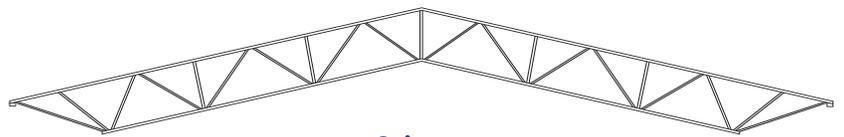
**Scissor:** Sloped roofline, vaulted ceiling. Good for applications requiring a higher ceiling because the bottom chord is raised.

**Bowstring:** Arched roofline, flat ceiling. Classic profile recalling historical open-plan designs.

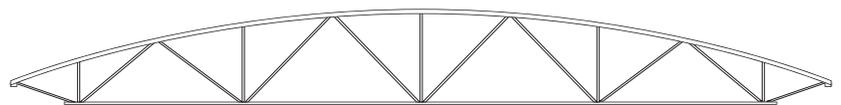
**Arch:** Arched roofline and ceiling. There is more opportunity for ceiling space or vaulted ceiling. See how Marmon Mok Architecture used specialty arch joists to create a YMCA "Air-nasium" that matched the original vision of the architect in the Design Ideas section of the October 2017 edition of Roof-Lines.



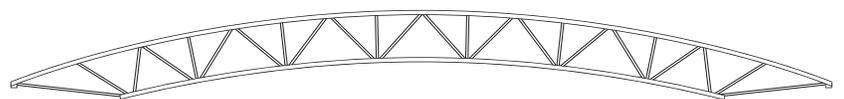
**Gable**



**Scissor**



**Bowstring**



**Arch**

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