

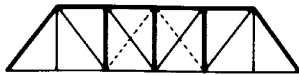


KING POST

(WOOD)

A TRADITIONAL TRUSS TYPE WITH ITS ORIGINS IN THE MIDDLE AGES.

LENGTH: 20-60 FEET
6-18 METERS

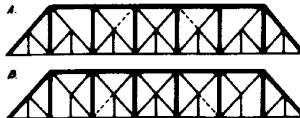


PRATT

1844-20TH CENTURY

DIAGONALS IN TENSION, VERTICALS IN COMPRESSION, (EXCEPT FOR HIP TRUSSES) ADJACENT TO INCLINED END POSTS

LENGTH: 30-250 FEET
9-75 METERS



BALTIMORE (PETIT)

1871-EARLY 20TH CENTURY

A. A PRATT WITH SUB-STRAUTS
B. A PRATT WITH SUB-TIES
LENGTH: 250-600 FEET
75-180 METERS



WARREN

1848-20TH CENTURY

TRIANGULAR IN OUTLINE THE DIAGONALS CARRY BOTH COMPRESSIVE AND TENSILE FORCES. A TRUE WARREN TRUSS HAS EQUILATERAL TRIANGLES.

LENGTH: 50-400 FEET
15-120 METERS



QUEEN POST

(WOOD)

A LENGTHENED VERSION OF THE KING POST.

LENGTH: 20-80 FEET
6-24 METERS



PRATT HALF-HIP

LATE 19TH-EARLY 20TH CENTURY

A PRATT WITH INCLINED END POSTS THAT DO NOT HORIZONTALLY EXTEND THE LENGTH OF A FULL PANEL.

LENGTH: 30-150 FEET
9-45 METERS



PENNSYLVANIA (PETIT)

1875-EARLY 20TH CENTURY

A. A PARKER WITH SUB-STRAUTS.
B. A PARKER WITH SUB-TIES.
LENGTH: 250-600 FEET
75-180 METERS

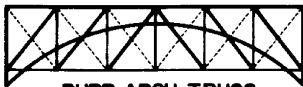


WARREN

WITH VERTICALS
MID 19TH-20TH CENTURY

DIAGONALS CARRY BOTH COMPRESSIVE AND TENSILE FORCES. VERTICALS SERVE AS BRACING FOR TRIANGULAR WEB SYSTEM

LENGTH: 50-400 FEET
15-120 METERS



BURR ARCH TRUSS

1804-LATE 19TH CENTURY

(WOOD)

COMBINATION OF A WOODEN ARCH WITH A MULTIPLE KING POST ARCH ALSO COMBINED WITH LATER WOODEN TRUSSES.

LENGTH: 50-125 FEET
15-50 METERS



TRUSS LEG BEDSTEAD

LATE 19TH-EARLY 20TH CENTURY

A PRATT WITH VERTICAL END POSTS IMBEDDED IN THEIR FOUNDATIONS.

LENGTH: 30-100 FEET
9-30 METERS



LENTICULAR (PARABOLIC)

1878-EARLY 20TH CENTURY

A PRATT WITH BOTH TOP AND BOTTOM CHORDS PARABOLICALLY CURVED OVER THEIR ENTIRE LENGTH.

LENGTH: 50-360 FEET
15-110 METERS



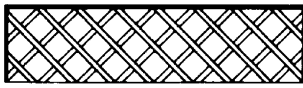
DOUBLE INTERSECTION WARREN

(LATTICE)

MID 19TH-20TH CENTURY

STRUCTURE IS INDETERMINATE. MEMBERS ACT IN BOTH COMPRESSION AND TENSION. TWO TRIANGULAR WEB SYSTEMS ARE SUPERIMPOSED UPON EACH OTHER WITH OR WITHOUT VERTICALS.

LENGTH: 75-400 FEET
23-120 METERS



TOWN LATTICE

1820-LATE 19TH CENTURY

(WOOD)

A SYSTEM OF WOODEN DIAGONALS WITH NO VERTICALS. MEMBERS TAKE BOTH COMPRESSION AND TENSION.

LENGTH: 50-220 FEET
15-66 METERS



PARKER

MID-LATE 19TH-20TH CENTURY

A PRATT WITH A POLYGONAL TOP CHORD

LENGTH: 40-250 FEET
12-75 METERS



GREINER

1899-EARLY 20TH CENTURY

PRATT TRUSS WITH THE DIAGONALS REPLACED BY AN INVERTED BOWSTRING TRUSS

LENGTH: 75-250 FEET
23-75 METERS



PEGRAM

1887-EARLY 20TH CENTURY

A HYBRID BETWEEN THE WARREN AND PARKER TRUSSES. UPPER CHORDS ARE ALL OF EQUAL LENGTH.

LENGTH: 150-650 FEET
45-195 METERS



HOWE

1840-20TH CENTURY

(WOOD, VERTICALS OF METAL)

DIAGONALS IN COMPRESSION, VERTICALS IN TENSION.

LENGTH: 30-150 FEET
9-45 METERS



CAMELBACK

LATE 19TH-20TH CENTURY

A PARKER WITH A POLYGONAL TOP CHORD OF EXACTLY FIVE SLOPES.

LENGTH: 100-300 FEET
30-90 METERS



DOUBLE INTERSECTION PRATT

1847-20TH CENTURY

(WHIPPLE, WHIPPLE-MURPHY, LINVILLE)
AN INCLINED END POST PRATT WITH DIAGONALS THAT EXTEND ACROSS TWO PANELS.

LENGTH: 70-300 FEET
21-90 METERS



POST

1845-LATE 19TH CENTURY

A HYBRID BETWEEN THE WARREN AND THE DOUBLE INTERSECTION PRATT.

LENGTH: 100-300 FEET
30-90 METERS



BOWSTRING ARCH-TRUSS

1840-LATE 19TH CENTURY

A TIED ARCH WITH THE DIAGONALS SERVING AS BRACING AND THE VERTICALS SUPPORTING THE DECK.

LENGTH: 50-130 FEET
15-40 METERS



CAMELBACK

WITH SUBDIVIDED PANELS
LATE 19TH-EARLY 20TH CENTURY

A. A PENNSYLVANIA TRUSS WITH A POLYGONAL TOP CHORD OF EXACTLY FIVE SLOPES
B. SAME AS A. WITH HORIZONTAL STRUTS.
LENGTH: 100-300 FEET
30-150 METERS

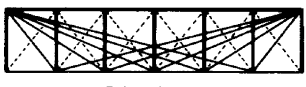


SCHWEDLER

LATE 19TH CENTURY

A DOUBLE INTERSECTION PRATT POSITIONED IN THE CENTER OF A PARKER.

LENGTH: 100-300 FEET
30-90 METERS



BOLLMAN

1852-MID-LATE 19TH CENTURY

(RARE)

VERTICALS IN COMPRESSION, DIAGONALS IN TENSION. LONGEST DIAGONALS RUN FROM END POSTS TO CENTER PANEL POINT.

LENGTH: 75-100 FEET
23-30 METERS

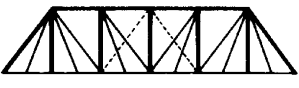


WADDELL "A" TRUSS

LATE 19TH-EARLY 20TH CENTURY

EXPANDED VERSION OF THE KING POST TRUSS. USUALLY MADE OF METAL.

LENGTH: 25-75 FEET
8-23 METERS



KELLOGG

LATE 19TH CENTURY

A VARIATION ON THE PRATT WITH ADDITIONAL DIAGONALS RUNNING FROM UPPER CHORD PANEL POINTS TO THE CENTER OF THE LOWER CHORDS.

LENGTH: 75-150 FEET
23-30 METERS

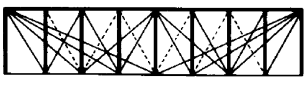


K-TRUSS

EARLY 20TH CENTURY

SO CALLED BECAUSE OF THE DISTINCTIVE OUTLINE OF THE STRUCTURAL MEMBERS.

LENGTH: 200-800 FEET
60-240 METERS



FINK

1851-MID-LATE 19TH CENTURY

(RARE)

VERTICALS IN COMPRESSION, DIAGONALS IN TENSION. LONGEST DIAGONALS RUN FROM END POSTS TO CENTER PANEL POINTS.

LENGTH: 75-100 FEET
23-45 METERS

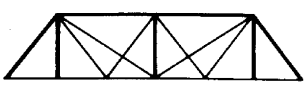


WICHERT

1730-MID-LATE 20TH CENTURY

IDENTIFIED BY A CHARACTERISTIC PIN-CONNECTED SUPPORT SYSTEM OVER THE PIGS. TRUSS IS COMBINATION OVER PANELS.

LENGTH: 400-1000 FEET
122-305 METERS



STEARNS

1890-EARLY 20TH CENTURY

SIMPLIFICATION OF FINK TRUSS WITH VERTICALS OMITTED AT ALTERNATE PANEL POINTS.

LENGTH: 50-300 FEET
15-90 METERS

TRUSSES

A STUDY BY THE

HISTORIC AMERICAN ENGINEERING RECORD

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