

# HORTICRAFT COMMERCIAL Greenhouse STRUCTURES SINGLE & MULTI-SPAN ARCH DESIGN



Greenhouses & Growing Structures

Hortitech's Arch Hoop and Sawtooth design commercial Greenhouse Structures combine a versatile design and cost-effective starting position or addition for a wide range of growing environments. The shape of the arches allows for excellent light transmission. Various standard widths and wall heights focus on flexibility and the practical use of both growing space and conditions. Hortitech can adapt to each project; focusing on individual client needs and budget.

## Standard Widths

- 6.5m wide span
- 7.5m wide span
- 9.0m wide span
- 10.0m wide span

## Benefits

- Simple, yet proven design
- Large gutters
- Suitable for both cold and warm climates
- Proven ventilation with structural integrity

## Standard Features

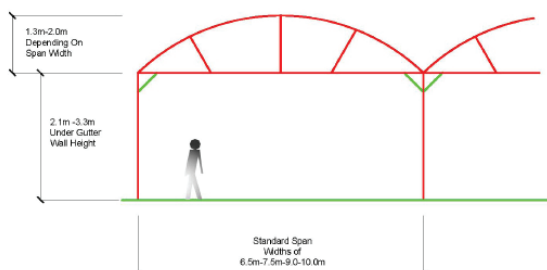
- Standard under-gutter height – 2.1m to 3.0m (higher heights available upon request)
- Standard post spacing of 2.133m (7ft), with an optional spacing of 2.0m
- Factory welded pre-fabricated truss or bolted web truss designs
- Anti-hot spot frame guard tape
- Wide gutters to both sides with rain head boxes to one end of each gutter run
- Suitable for polyethylene Greenhouse plastic

## Technical Standards

- Standard gable widths – 6.5m, 7.5m, 9.0m and 10.0m
- Standard under-gutter height – 2.1 to 3.0m
- Web bracing (truss) load – up to 25kg/m<sup>2</sup> (welded truss design only)
- Wind load – up to 120-135km/h (aspect and location limitations)
- Steel-coated with electrogalvanised zinc and clear polymer protective coating

## Optional Features

- Single or Double Sliding Doors
- Roll-up side-wall ventilation curtains – full or part drop (manual or electric)
- Roll-up end-wall ventilation curtains – allows for vehicle access (manual or electric) [on open-end walls only]
- Issue of Engineering drawings and Certificate of Compliance (when required)
- HAF Circulation Fans – requirements calculated according to Greenhouse air volume
- Quarantine mesh screens
- Double-entry portico – ideal for quarantine purposes



VENTILATION



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# HORTICRAFT COMMERCIAL Greenhouse STRUCTURES SINGLE & MULTI-SPAN SAWTOOTH DESIGN



Greenhouses & Growing Structures

Hortitech's Arch Hoop and sawtooth design commercial Greenhouse structures combine a versatile design and cost-effective starting point or addition for a wide range of growing environments. The shape of the arches allows for excellent light transmission. Various standard widths and wall heights focus on flexibility and the practical use of growing space and conditions. Hortitech can adapt to each project, focusing on client needs and budget.

## Standard Widths

- 6.5m wide span
- 8.5m wide span
- 10.0m wide span

## Benefits

- Simple, yet proven design
- High roof sawtooth opening for natural ventilation
- Large gutters
- Suitable for cold and warm climates
- Proven ventilation with structural integrity

## Technical Standards

- Standard gable widths – 6.5m, 8.5m and 10.0m
- Standard under-gutter height – 2.1-3.0m
- Web bracing (truss) load – up to 25kg/m<sup>2</sup> (welded truss design only)
- Wind load – up to 120-135km/h (aspect and location limitations apply)
- Steel-coated with electrogalvanised zinc and clear polymer protective coating

## Standard Features

- Standard under-gutter height – 2.1 to 3.0m (higher heights available upon request)
- Standard post spacing of 2.133m (7ft), with an optional spacing of 2.0m
- Factory welded pre-fabricated truss



- Wide gutters to both sides with rain head boxes to one end of each gutter run
- Suitable for polyethylene Greenhouse plastic

## Optional Features

- Single or Double Sliding Doors
- Roll-up side-wall ventilation curtains – full or part-drop (manual or electric)
- Roll-up end-wall ventilation curtains - allows for vehicle access (manual or electric) [on open and end walls only]
- Issue of Engineering drawings and Certificate of Compliance (when required)
- HAF Circulation Fans – requirements calculated according to Greenhouse air volume
- Quarantine mesh screens
- Double-entry portico – ideal for quarantine purposes



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