



1-800-558-5096

International Number: 001-920-725-2667

www.arcways.com

Compare a jobsite built curved stairway (wood or concrete) to an Arcways pre-engineered / pre-assembled factory built stairway.

#### **Jobsite Built Wood Constructed Curved Stairway: By Others**

1. **Several subcontractors** (framing crew / carpenter crew / rail fabricator crew) and several suppliers with limited knowledge attempting to work together to provide design and fabrication cohesiveness within harsh jobsite conditions.
2. **No full scale template system available** when framing, resulting in compound radius errors in rough wall and curved balcony areas above. This haphazard process creates visible **compounding imperfections** in the finish stages, oftentimes resulting in the inability to fabricate the wood handrail.
3. Many weeks, sometimes months of jobsite fabrication and installation resulting in **unknown costs**.
4. The cost is unknown due to the multitude of subcontractors required to complete the stairway, **oftentimes more expensive** with far less features & benefits.
5. Quality of fit and **finish is inferior** – exposed fastening, jobsite bent handrails, commodity rail parts provided from local lumberyard, treads & risers not identical due to wall imperfections (pieced together).
6. Stair carriage is individually **pieced together** – not interlocked together – causing movement, creating gaps, and squeaks overtime.
7. **Oftentimes no curved stringers** / skirt boards (curved side boards that go up either side of stairway) provided – just drywall abutting into the ends and edges of all the treads and risers – lacks refined finished look at wall faces.
8. **Minimal use of modern technology** – not always capable of creating a finished product with hand tools commensurate with the home's overall cabinet quality.
9. **Limited** or no **engineering knowledge** of curved structures - no professional documentation to verify code compliance and/or structural integrity.
10. **Limited design** and/or shop drawing **capabilities** which results in the inability to control the outcome – who is responsible / liable for adhering to codes – who has the warranty on workmanship?
11. **Limited** material and design **selections** available which create a void in the customer's intrinsic / essential value requirements.
12. Limited protection to adverse jobsite conditions – **jobsite damage** to finished stairway more common.
13. Not "black and white" when a repair is required – **who is responsible?**
14. **No** expressed or implied written **warranty** available.
15. **Not a LEAN & GREEN way** of supplying the product.

**NOTE: Arcways builds pre-assembled wood curved stairways that don't have the aforementioned drawbacks – please read about Arcways below.**



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### **Jobsite Built Concrete / Metal Pan Constructed Curved Stairway: By Others**

1. **Several subcontractors** (metal frame crew / concrete crew / stone tread-riser supplier / metal rail & clad crew / wood rail & clad crew) and several suppliers with limited knowledge attempting to work together to provide design and fabrication cohesiveness within **extremely harsh jobsite conditions**.
2. **No full scale template system available** when pouring or blocking walls, resulting in compound radius errors in rough wall and curved balcony areas above. This haphazard process creates visible **compounding imperfections** in the finish stages, oftentimes resulting in the inability to fabricate the wood or metal railing without unsightly compromises.
3. **Months of jobsite fabrication** and installation resulting in unknown costs.
4. The cost is unknown due to the multitude of subcontractors required to complete the stairway, **oftentimes twice as expensive** with far less features and benefits.
5. Quality of fit and **finish is inferior** – stone treads and risers not all identical due to concrete pan pour imperfections and curved wall imperfections.
6. Stair cladding (stone treads / risers) over concrete is individually **pieced together** – causing gaps and irregularities where stone is being overlapped and abutted. Edge of riser is exposed on open end(s) of stairway – unfinished look.
7. **Oftentimes no curved stringers / skirt boards** (curved side boards that go up either side of the stairway) provided – just drywall abutting into the ends and edges of all the stone treads and risers – lacks refined finished look at wall faces.
8. **Minimal use of modern technology** – not always capable of creating a finished product with hand tools commensurate with the home's overall cabinet quality.
9. **Limited** or no **engineering knowledge** of curved structures – no professional documentation to verify code compliance and/or structural integrity.
10. **Limited design** and/or shop drawing **capabilities** which results in the inability to control the outcome – who is responsible / liable for adhering to codes – who has the warranty on workmanship?
11. **Limited** material and design **selections** available which create a void in the customer's intrinsic / essential value requirements – difficult to incorporate wood and iron details on an imperfect sub-structure.
12. **Extreme dead load properties** (weight of stairway) require footings and walls below the stairway – blocks off potential views below and through stairway area.
13. **No** expressed or implied written **warranty** available.
14. **Not a LEAN & GREEN way** of supplying the product.

**NOTE: Arcways builds super structure all wood curved stairway carriages for stone tread / riser application – please read about the benefits below.**



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### **Arcways Pre-engineered / Pre-assembled Curved Stairway Constructed in a Controlled Factory Environment:**

1. **One expert subcontractor** to provide total design, engineering, and fabrication of custom curved stairway in a controlled factory environment to AWI Section 800 Superior Grade Standards.
2. **Arcways patented (# 7,552,564) full scale plywood interlocking curved stair and wall plate system** gives the framer the ability to be "spot on" when framing walls, balconies, & headers.
3. **Only hours to set entire stair carriage** into place – only hours to re-attach and reinstall the pre-fabricated factory balustrade system on the stairway.
4. **The cost is known** upfront and oftentimes is far less with far more features and benefits.
5. Quality of fit and **finish is far superior** – stairway carriage is entirely hidden fastened with shaped handrails (not bent) and custom made in-house helical rail parts – fits jobsite conditions precisely due to Arcways patented template system used during the framing stages.
6. **Stair carriage is one piece interlocked construction** – dado & rabbet tread / riser with mechanically fastened outer skirt boards – structurally attached body, no squeaks
7. **Refined finished look** with skirt boards (curved side boards that go up either side of the stairway) that are joined in a seamless manner to the treads and risers – commensurate to the home's cabinet quality.
8. **Maximum use of technology** – highly sophisticated CNC router(s) and 7 axis robot ensure extreme fabrication precision and affords endless capabilities.
9. **Engineered curved stair carriage** meets and exceeds 100 lbs./sq. ft. live load with a safety factor of 2.5 = 250 lbs./sq. ft. without deformation or failure – we are the experts to trust.
10. Professional 24" by 36" **AutoCad generated shop drawings** for field verification and documentation.
11. **Limitless design and material options** available due to creative longevity – 43 years of design knowledge – complex stair configurations – exotic wood / glass / stone / forged iron.
12. Exclusive fast and simple screw together **metal on metal balustrade hardware** - blind fastened – no plug holes to fill – wood stair balustrade remounted in a couple of hours.
13. Stairway and process **avoids harsh jobsite conditions** – delivered and installed (finished stair carriage) in a couple of hours after the mess is gone.
14. **Protective cardboard covering** – custom made locally to protect your stairway from jobsite damage.
15. **Stone treads and risers available** – all cut out identically – stone risers are mitered to receive the miter of the skirt board – treads are cored out so balustrade fits flawlessly thru and into 1/1/2" thick substrate / underlayment with screw in metal to metal balustrade hardware.
16. Plywood template of tread and riser provided to local stone supplier if stone is by others – **precision made wood super structure stair carriage** designed for stone / glass / forged iron loading.
17. **Optional Class "A" fire rating treatment** available to protect your egress from fire and flame spread – please inquire.
18. **Turnkey installation services available** by Arcways talented craftsmen – installation of the balcony parts is where the time is spent – not the stairway or stair handrail. Balcony components are installed using metal to metal hidden screw-in hardware only exclusive to Arcways installers.
19. **Midwest family owned and operated company with trustworthy values and friendly service.**