



META STRUCTURES

MODULAR SYSTEMS BUILDING THE FUTURE

META MODULAR STAIRCASE VS TRADITIONAL STAIRCASE

A detailed comparison of manufacturing, waste, installation, finishing, service, production capacity and delivery.

ENGINEERED FOR PERFORMANCE. BUILT FOR LIFE.

01 / COMPARISON INDEX

MANUFACTURING, WASTE, SAFETY AND TRANSITION.

1) Typical Temporary Staircase Manufacturing Time

META MODULAR STAIRCASE

10 Minutes

TRADITIONAL STAIRCASE

2.5 Hours

2) Temporary Stair Materials requiring disposal after use

META MODULAR STAIRCASE

No Waste, all material is either reused or permanent

TRADITIONAL STAIRCASE

All Material is wasted, sometimes has limited reuse but eventually will be 100% waste

3) Disposal Expense for Temporary staircase

META MODULAR STAIRCASE

No Cost, with 0% waste stream

TRADITIONAL STAIRCASE

Yes, requires labour of 2 men, and a garbage bin cost

4) Temporary staircase Worker Safety consideration

META MODULAR STAIRCASE

Comparable to Finished Staircases, increased width, precision, & strength to protect workers

TRADITIONAL STAIRCASE

Reduced width, Onsite Modification and Worker Mis-use creates higher risk of injury

TRANSITION, FINISHING AND TIMELINE.

5) Temporary to Finished Staircase Transition

META MODULAR STAIRCASE

Simple transition from Temporary Stair to Prefinished Colour Matched Final Staircase in one step, with Railing installation at same time

TRADITIONAL STAIRCASE

Requires removal of Temporary Stairs to be disposed of, and Installation of Raw wood Final

6) Deficiency and Damage comparison

Staircase, staining and railings to follow later

META MODULAR STAIRCASE

Transition to Final staircase is later in the schedule reducing the risk of damage and the system is designed to facilitate quick simple repairs

TRADITIONAL STAIRCASE

Deficiencies are a major issue in the industry currently, Installation of the stair prior to the rough-ins phase creates a large risk of damage, and expensive repairs involving multiple trades

7) Finishing Requirements and Systems

META MODULAR STAIRCASE

Durable prefinished Stairs colour matched to the floors, reduces production schedule, and limits deficiencies

TRADITIONAL STAIRCASE

Onsite application creates risk for deficiencies, requires the site to be closed for several days,

8) Timeline required to provide a finished product

and matching of finished is not possible

META MODULAR STAIRCASE

24-72 hours, with universal and prefinished components

TRADITIONAL STAIRCASE

4-8 weeks+, with custom manufacturing

03 / COMPARISON INDEX

DURABILITY, COORDINATION AND UNIFORMITY.

9) Finish Durability – Stain and Paint Systems

META MODULAR STAIRCASE

Machine applied finishes, UV Cured for wear resistance, Colour Matching to floors

TRADITIONAL STAIRCASE

Applied by hand create inconsistencies, softer finish without UV, Higher risk for damage

10) Communication and Management between Trades and Developers

META MODULAR STAIRCASE

Simplified process with pre-finishing, back framing, temporary Stairs integrated under one company

TRADITIONAL STAIRCASE

Complex management of trades, Stairs, railings, framing, drywall + finishing, trim, paint

11) Product Uniformity – Same Model between Multiple Lots

META MODULAR STAIRCASE

Standardized components, and high precision create a system with tight tolerances, and consistency

TRADITIONAL STAIRCASE

Variability in industry tolerances and consistency issues stem from compounded errors

12) Efficiency and Quality of Stair Assembly

accrued by many trades

META MODULAR STAIRCASE

Tighter System with Mechanical fastening minimizes squeaking and noise

TRADITIONAL STAIRCASE

Current systems are 100 years old, as they age squeaks and wear require large repairs

04 / COMPARISON INDEX

WORKFLOW, FLEXIBILITY, SAVINGS AND IMPACT.

13) Workflow Complexity and Duration

META MODULAR STAIRCASE

Simplified system integrating several trade roles under one system, shortening the project duration, and reducing time lost to service

TRADITIONAL STAIRCASE

Complex trade management scheduling creates delays and lost time, repairs lengthen schedules, Finishing requires closure of the home

14) System Flexibility – Dimensions, and Layouts

META MODULAR STAIRCASE

Designed to adapt with ease, will adjust to various width, heights, configurations and Finishes with Universal components

TRADITIONAL STAIRCASE

,One off construction means that a "Unique Staircase must be made for each situation
Changes often require full replacement

15) Savings Possibilities – for Developer

META MODULAR STAIRCASE

;Reduced Waste & Labour requirements, plus lower management costs provide upfront savings
shorter production schedules add savings due to reduced carrying costs and interest

TRADITIONAL STAIRCASE

Existing system has been optimized to near capacity allowing for only small inconsistent savings; delays and higher management requirements limit any additional savings

16) Environmental Impact – Reduce, Reuse, Recycle

META MODULAR STAIRCASE

With the Aluminum Frame and Reusable Temporary Treads all materials are recyclable. With modular components and removable panels any damage parts are the only waste created

TRADITIONAL STAIRCASE

Disposal of Temporary Stairs, Larger material requirements to protect stair during construction, and material waste from damage and deficiencies causes a large waste stream

05 / COMPARISON INDEX

CONFIGURATION, INSTALLATION, SERVICE AND COST.

17) Configurable – Limit to the Design Options

META MODULAR STAIRCASE

Universal manufactured components create a system with countless configurations

TRADITIONAL STAIRCASE

Many configurations are possible, but adjustment or adaptation is limited, Replacement is

18) Ease of Assembly and Installation

needed to resolve many issues

META MODULAR STAIRCASE

Assembly requires only a drill and measuring tape, made to assemble in place, Parts are all small, easily carried and come prefinished; Installation from start to finish in 1 day

TRADITIONAL STAIRCASE

Assembly requires a skilled trades person and specialty tools, can require heavy equipment and manpower to install, weeks of time needed to install and stain

19) Ease of Service and Repair

META MODULAR STAIRCASE

Simple Service with Removable Panel under Stair, components can be unfastened and replaced in minutes and be reassembled like new

TRADITIONAL STAIRCASE

Simple Repairs can involve demolition of finished areas to create access, and may require 6 trades to restore the home; owner of homes may need to be put in hotel (adding costs)

20) Cost for Typical Package – Stairs, Railings, and Finishing

META MODULAR STAIRCASE

\$15,000 (Simplified under one company)

TRADITIONAL STAIRCASE

\$15,000+ (with Multiple Trades to Manage)

HOMEOWNER SERVICE, CAPACITY AND DELIVERY.

21) Do Homeowners need to be displaced during repairs

META MODULAR STAIRCASE

No, all new or replacement parts are made and stained in factory and replacements are completed within one day

TRADITIONAL STAIRCASE

For many repairs, homeowners will be housed in a hotel for the duration of the repair which can take multiple days, due to dust, smell, and noise

22) Production Capacity in Homes per Factory every year

META MODULAR STAIRCASE

Based on the average home in the GTA, consisting of 44 Risers, the annual production would be 30000; this volume will allow for quick home construction and an increased volume

TRADITIONAL STAIRCASE

Max production has been 5000 homes, this was at a time where the average home in the GTA included 30-32 Risers, this volume restricted production schedules, limiting volume

23) Efficient movement and delivery of Stair System

META MODULAR STAIRCASE

The Smaller footprint and size of all the parts allow for 100+ stairs to be packed into a small container or Van, and delivered to site. Weight capacity becomes the only restriction

TRADITIONAL STAIRCASE

Large, preassembled Stairs require bigger vehicles, and the stairs size and weight limit the number of Stairs per load (10 Staircases), Larger vehicles are costly and less maneuverable