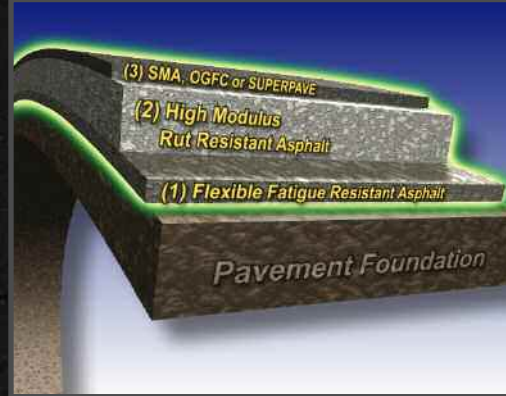


HOW DO YOU DEFINE VALUE?

val•ue \ 'val-(,)yü,-yə-w \ **1:** something that is intrinsically valuable, useful or desirable

2: ASPHALT BASE PAVEMENT a: longest lasting

[Deep-strength asphalt pavements provide the greatest longevity of all pavement types. **Asphalt base pavements with asphalt surfaces are perpetually strong, having inexhaustible structural life.** Detailed studies from Ohio, Kansas and Iowa all show that asphalt base pavements subjected to the heaviest of traffic conditions had no need for reconstruction or major repair. The value of asphalt base pavements is further demonstrated through these studies, noting they are less costly to maintain than concrete base pavements.^{1]}



Pavements constructed with an asphalt base and asphalt surface are perpetually strong, and have an inexhaustible structural life.

b: proven "Serviceability" is the measure of a pavement's ability to "serve" the motorist through good ride quality. [Serviceability is what the motorist values, and so should you. **Proven to Serve** - Ohio Department of Transportation pavement design acknowledges asphalt base pavements with asphalt surfaces provide the highest level of serviceability and smoothness of all pavement types.² Concrete bases induce reflection cracking in asphalt overlays which reduces serviceability, thereby stealing years of pavement life. Asphalt overlays perform best when placed on asphalt base, which is validated by University of Toledo research: "overlays on flexible pavement perform better and last longer than overlays on composite pavements."³



Proven Speedy - Asphalt base pavements are hands down the pavement of choice for quick construction. Just ask any street front retailer. Time is money, and the value of asphalt base pavement is high, because it keeps traffic moving and businesses unobstructed by construction work zones. With asphalt base pavements, motorists can have access soon after paving. A little time for the asphalt to cool is all that's needed.

Proven Quiet - Research conducted by the National Center for Asphalt Technology for the Colorado Department of Transportation⁴ showed that asphalt base pavements with a commonplace dense-graded surface were quieter than concrete, even diamond ground and longitudinally tined concrete. In this study asphalt pavement was 3 dB(a) less than concrete which is about the same as doubling the distance from the road to the listener, or cutting traffic quantity by half. **If "silence is golden," asphalt must be invaluable!]**

c: 100% reusable [Asphalt base pavements are constructed with materials that can be reused over and over again. Properly designed and maintained asphalt base pavements have never shown the need for removal; however, the pavement surface does need replaced from time to time. Cold-milling the surface captures this valuable resource for reuse in new asphalt pavement. Millions of dollars are saved annually by reusing old asphalt pavement. Flexible Pavements of Ohio reported in 2007 that approximately 3.3 million tons of asphalt was being reused annually in Ohio - enough to pave a two-lane road stretching from Columbus to Los Angeles.⁵

Asphalt based pavements truly are "The Sustainable Pavement." And now with the innovation of Warm Mix Asphalt technology asphalt base pavements push "sustainability" to dimensions out of reach by any other pavement type.]

d: easily maintained [Mill & Fill, Close-Couple Paving, Nighttime Paving, Preventive Maintenance - all are terms coined to describe pavement maintenance processes; processes that are economical, non-intrusive to motorists, expedient at accomplishing their respective tasks, and preserve the investment made by pavement owners. **They also are terms synonymous with asphalt paving.**

e: a legacy of quality [The pursuit of higher quality and superior performance is the legacy of Ohio's asphalt base pavements. The adoption of Quality Assurance. Superpave. Smoothseal. Smoothness Specifications. Polymer-modified asphalt binders. "Big Rock" Asphalt Base. **It's a legacy that continues today** with FRAP (Fractionated Recycled Asphalt Pavement), Warm Mix Asphalt, 404-LVT, Perpetual Pavement, Porous Asphalt Pavement and more.]

OHIO RIDES ON US Asphalt.

But ultimately the Ohio Asphalt Industry and its partners define value by the impact asphalt base pavements have made on the quality and affordability of Ohio's roads.

Asphalt base strength carries the heavy loads.

Asphalt base pavements promote quick construction and provide immediate access to motorists after repaving.

Asphalt base pavements are economical and easily maintained.

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¹Pavement Life-Cycle Cost Studies Using Actual Cost Data - A Synthesis, by Jorge N. Villacres, Consulting Engineer, 2005
²Ohio Department of Transportation Pavement Design Manual, Section 200, Figure 201-1, Serviceability and Reliability
³Evaluation of the Variation in Pavement Performance Between Districts, by Chou, Tack, Yu, and Wielinski, University of Toledo
⁴Colorado DOT Tire/Pavement Noise Study, Report Number CDOT-DTD-R-2004-5, by Hansen and James
⁵Survey Shows Ohio's Asphalt Paving Industry a Major Asset to State's Economy, Ohio Asphalt, Fall 2007

ASPHALT BASE FOR STRENGTH AND PERFORMANCE

