

autostone usa

Automotive Service Department Planning Guidebook



Cleaner, Safer, Better Service Environments.

“That’s Thoughtful!”

What customers say when you build with AutoStoneUSA.



Your Service Drive is the Most Important Square Footage in Your Dealership.

The service drive is often overlooked and under-measured when planning your facility build or renovation. Industry surveys confirm that the appearance of the service drive impacts your customers' perception more than any area in your dealership. This is because the majority of new customers arrive through the service drive and this is their first impression of your dealership.

In this small footprint customers and employees meet to conduct business on floors exposed to the elements (rain, snow, moisture and more), petroleum, rubber, silica, oils, grease, and other contaminants.

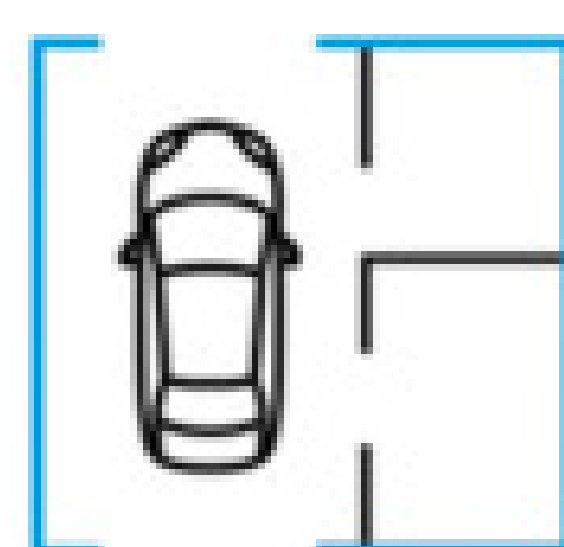
The reality of automotive retailing means that you face greater challenges conducting business. The question is: “what is the best surface to address the risk you face?”



Service drives are typically have the smallest square footage and use of space. Therefore enhancing this small footprint has a negligible impact on the overall project cost. However, an AutoStoneUSA - permanent - floor has an oversized and positive impact on your dealership.

Service drives made by AutoStoneUSA will have your customers saying, “that’s thoughtful”.

- * Brands approve us.
- * Dealers love us.
- * Better technology.
- * STF (slip, trip, and fall) solutions.
- * Permanent floor system.
- * Cleaning technology to aid your cleaning process.



AutoStoneUSA - Cleaner, safer, better!



No Risk, Better Results, Longevity.

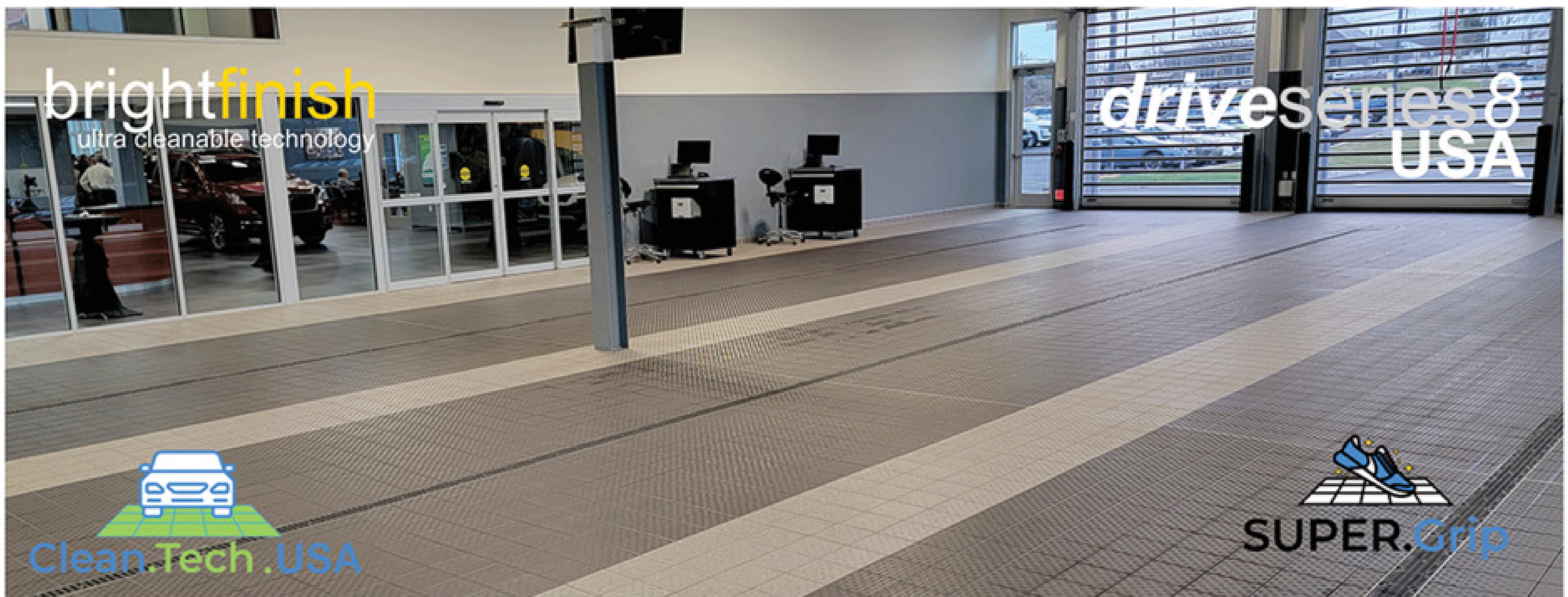
AutoStoneUSA delivers better results with better technology and automotive expertise.

Made in the USA - saves you money, eliminates risk and reduces your carbon footprint & fossil fuel use.



AutoStoneUSA service drive and workshop floor systems are Made in the USA. Service drive and workshop environments have a 30+ year life cycle expected use, or longer. Technology advancements are rapidly occurring with ICE and EV diagnostic and service equipment in the service drive and workshop space. Dealers need quick and long term access to materials to support moves-add-and-changes. AutoStoneUSA is here to meet your growth needs now and for generations to come.

Made in the USA assures that your project will deliver on-time, every time. Only AutoStoneUSA guarantees you immediate supply of one-box, or hundreds of boxes, to support your facility build and on-going growth and maintenance needs.



Made in the USA reduces Carbon Footprint and Fossil Fuel use by eliminating trans-ocean transportation.

With AutoStoneUSA you are not reliant on "JIT" (just-in-time) manufacturing and shipping to support your project. Made in USA eliminates supply chain risk.

AutoStoneUSA reflects the best in American ingenuity, technology, design, and more. Our supply chain is the shortest, smartest and most energy, and fuel efficient.



- 1 LOCALLY SOURCED & LOCALLY QUARRIED**
 - ✓ Elimination of trans-ocean shipping
 - ✓ US jobs, shorter supply chain



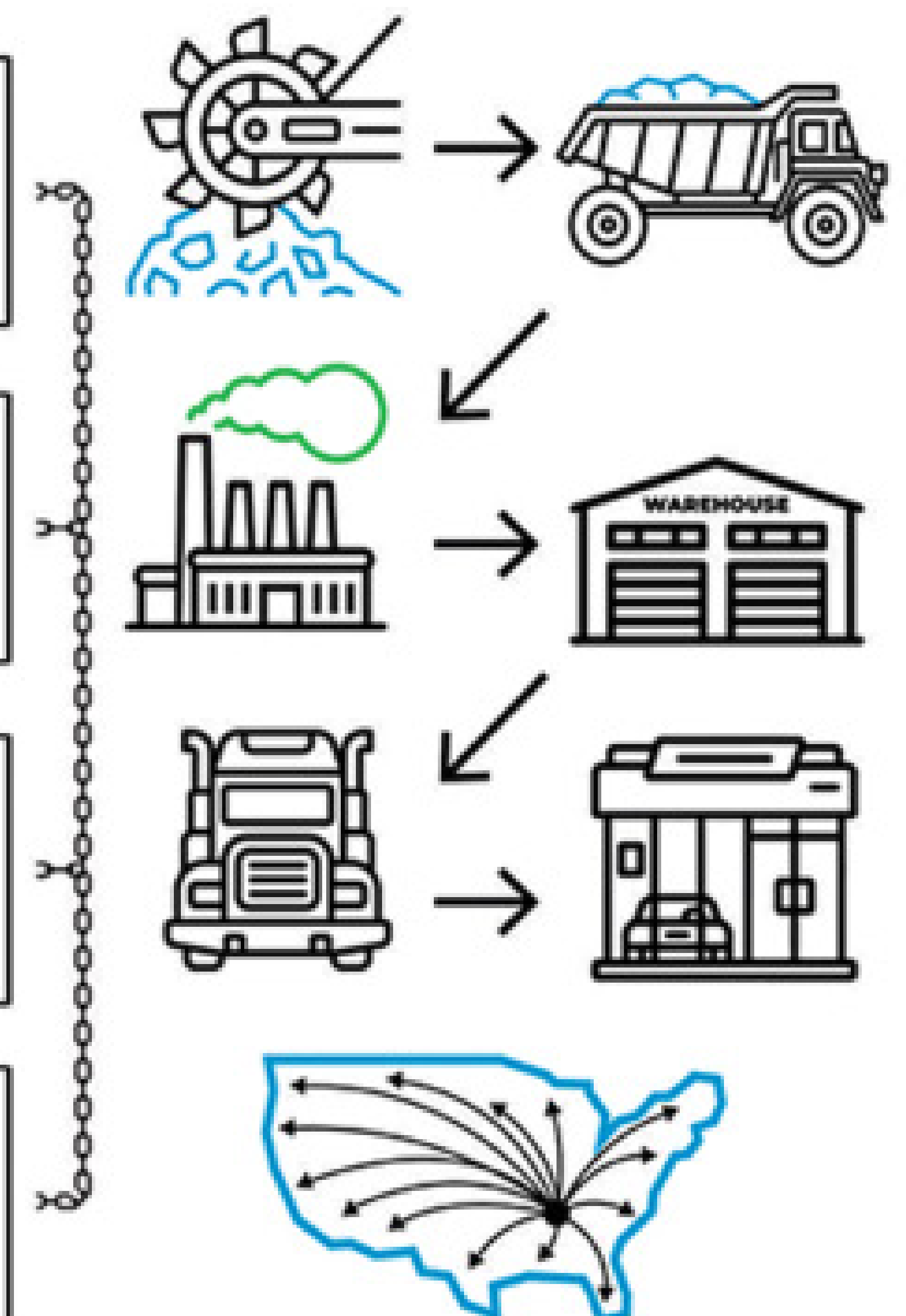
- 2 DOMESTICALLY PRODUCED & LOCALLY WAREHOUSED**
 - ✓ Less shipping
 - ✓ Reduced carbon footprint



- 3 CONSOLIDATED SHIPPING DIRECT TO YOUR DEALERSHIP**
 - ✓ Eliminates distribution shipping
 - ✓ Reduces use of fossil fuel



- 4 DOMESTICALLY PRODUCED SMARTER & EFFICIENT DISTRIBUTION**
 - ✓ Better for the environment
 - ✓ Saves you money



STF (Slip, Trip, and Fall) Risk Management

Determining your environment of use for STF risk mitigation.

Automotive Environment Use.



Automotive service facilities face new ANSI STF (slip, trip, and fall) safety standards which require a closer inspection by dealers, architects, and their builders for the type of floor surface and tile to be used.

The good news is, AutoStoneUSA has the solutions and products to help you measure and reduce your STF (slip, trip, and fall) risk exposure, regardless of your facility design and operational use.

The new ANSI A326.3 2021 (STF Standard) states “...specifier shall determine materials appropriate for project conditions, considering by way of example, but not in limitation, type of use, traffic, expected contaminants, expected maintenance, expected wear, and manufacturers’ guidelines and recommendations.”

This new ANSI standard creates (5) categories which provide definition to help specifier (architect), builder (GC), facility operator (dealership owner), and flooring contractor, on how to define your facility. The previous approach of “one-size-fits-all” does not apply. Below are the categories which your facility is to be measured by to determine your risk category. Depending on your use of high-speed doors, HVAC controls and exposure to the elements impacts your rating. Additionally, geographical location (climate), and exposure to chemicals, especially **oils and grease**, determine “classification”. **Automotive service requires greater STF mitigation.**

A326.3 2021	Classification	Reference Category	Criteria	Comments	AutoStoneUSA
4.1.1	Interior, Dry	ID	> 42 dry DCOF* (per Section 10.1)	n/a for automotive retail	YES
4.1.2	Interior, Wet	IW	> 42 wet DCOF* (per Section 9.1)	most retail showroom areas	YES
4.1.3	Interior, Wet Plus	IW+	> 50 wet DCOF* (manufacturer declared)	a case can be made for this lower classification	YES
4.1.4	Exterior Wet	EW	> 55 wet DCOF* (manufacturer declared)	service drives & spaces w/o high-speed doors & HVAC controls	YES
4.1.5	Oils/Greases	O/G	> 55 wet DCOF* (manufacturer declared)	this standard that impacts service drive & workshop environments	YES

Note: European (R-ratings) do not apply.

ANSI A326.3 Definitions for Environment of Use - below are the actual standards which impact automotive service environments and material selection.

4.1.3 Interior, Wet (IW+) Environment

4.1.4 Exterior, Wet (EW) Environment

4.1.3 Interior, Wet Plus: See Section 3.4. *Product shall be manufacturer-declared for this category* based on manufacturing parameters, internal quality control criteria, and manufacturer experience with similar surfaces. Attributes to consider include, but are not limited to, product size, texture, structure, and drainage. Products meeting Interior, Wet Plus criteria may require frequent maintenance to keep clean.

INFORMATIVE NOTE:

Possible Areas of Use: Subject to determination by specifier and the criteria in this standard, may include, but are not limited to, public showers, interior pool decks, locker rooms, **covered exterior areas**, steam rooms, “front of the house” applications in restaurants with an open kitchen, and in “front of the house” applications in quick service, fast-casual, and self-service restaurants, food areas in gas stations, **and other similar areas where floors may be walked upon when wet if clean, maintained, and free of standing water or other contaminants.**

INFORMATIVE NOTE: In the absence of superseding manufacturer-declared product use classification, excepting where measured DCOF is lower due to the impact of structure on the DCOF measurement, **it is generally accepted that hard surface flooring in this category should have at least a wet DCOF value of 0.50***, with factors other than wet DCOF also taken into consideration. Such factors include, but are not limited to, **expected contaminants**, drainage, surface structure, effect of structure on the DCOF measurement, number of grout joints (see Informative Note in Section 9.1.7), traction-enhancing features, and intended use, in addition to the other criteria in this standard. As the suitability of the installed hard surface flooring depends significantly on such factors, a single normative DCOF limit value is not provided.

4.1.4 Exterior, Wet: See Section 3.4. *Product shall be manufacturer-declared for this category* based on manufacturing parameters, internal quality control criteria, and manufacturer experience with similar surfaces. Attributes to consider include, but are not limited to, product size, texture, structure, and additionally in wet applications, drainage. Products meeting Exterior, Wet criteria may require frequent maintenance to keep clean.

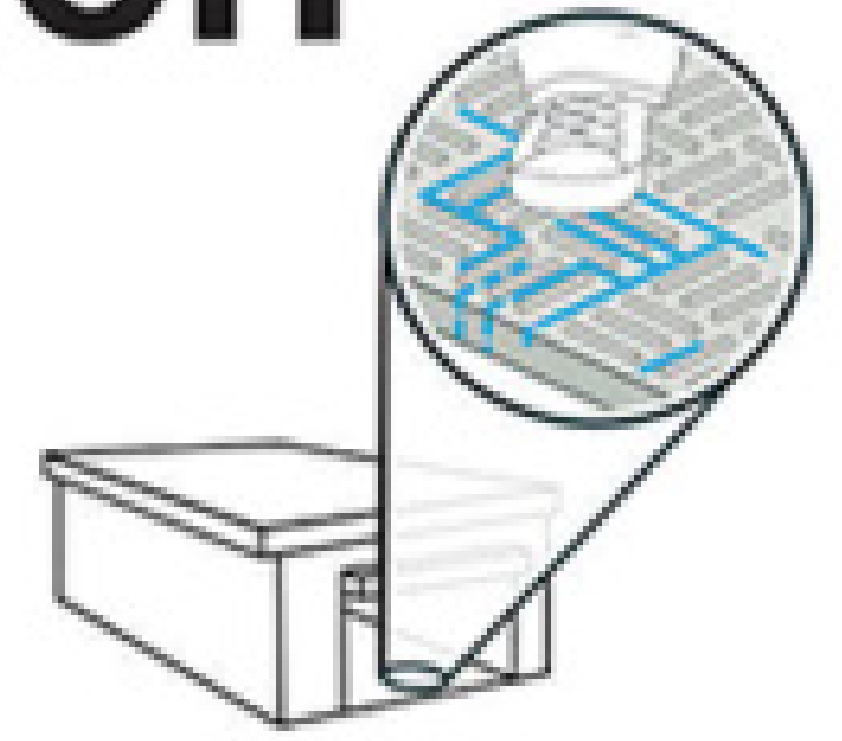
INFORMATIVE NOTE:

Possible Areas of Use: Subject to determination by specifier and the criteria in this standard, may include, but are not limited to, level outdoor living spaces including pool decks, walkways, patios, and sidewalks, where such floors may be walked upon when wet (excluding ice or snow) if level, clean, maintained, and free of standing water or other contaminants.

INFORMATIVE NOTE: In the absence of superseding manufacturer-declared product use classification, excepting where measured DCOF is lower due to the impact of structure on the DCOF measurement, it is generally accepted that hard surface flooring in this category should have at least **a minimum wet DCOF value of 0.55***, with factors other than wet DCOF also taken into consideration. Such factors include, but are not limited to, **expected contaminants**, drainage, surface structure, effect of structure on the DCOF measurement, number of grout joints (see Informative Note in Section 9.1.7), traction-enhancing features, and intended use, in addition to the other criteria in this standard. As the suitability of the installed hard surface flooring depends significantly on such factors, a single normative DCOF limit value is not provided.

Environment of Use & Product Selection

AutoStoneUSA provides you the right product to address your STF risk.

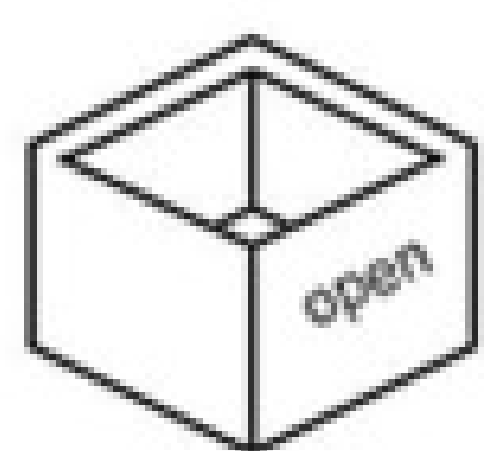


Automotive Service & WorkShop Environment Examples

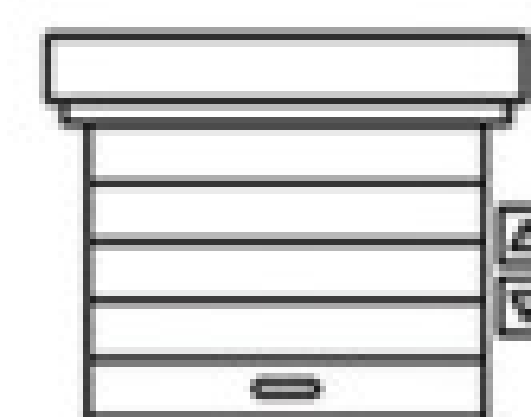
The design of your service drive and workshop impact the risk you face when operating and doing business. Depending on risk tolerance as measured against ANSI standards: 4.1.3 (IW+), 4.1.4 (EW), and 4.1.5 (O/G), AutoStoneUSA has a tile system to help you mitigate your STF risk. AutoStoneUSA has solutions which are manufacturer declared for use in 4.1.5 (O/G), which states...***“level areas regularly exposed to automotive fluids...”***

All AutoStoneUSA service drive & workshop series include our “manufacturers declaration” which inform you of the appropriate environment of use. AutoStoneUSA is designed and manufactured for the automotive space. We are automotive flooring experts.

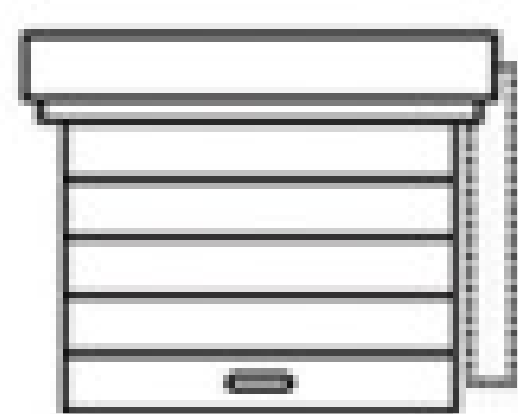
Examples of Automotive Service & WorkShop Environments



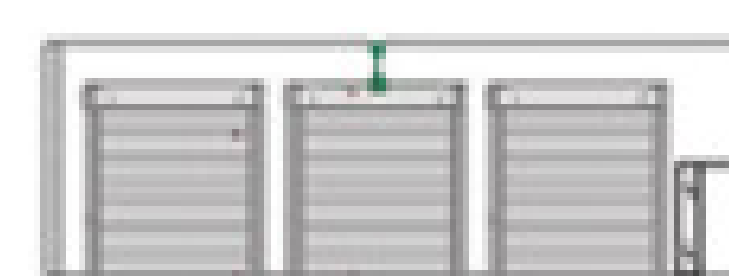
Service Drive without (4) full-height walls & doors.
Any structure without (4) full-height walls & doors which control exposure to elements would default to exterior wet (EW), or oils/grease (O/G).



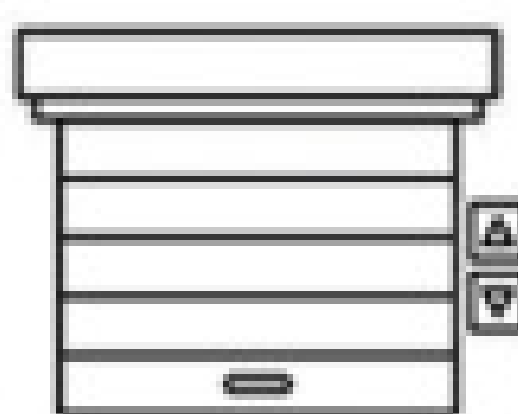
WorkShop with Limited Vehicle Access Doors
Large footprint tech workshops with limited vehicle doors that minimize exterior elements from impacting workshop conditions can be rated as interior, wet, plus (IW+).



Service Drive with Manual Roll-Up doors.
Manual roll-up doors do not control the environment throughout daily use and would default to exterior wet (EW), or oils/grease (O/G).



WorkShop with California Bay Design
Large footprint tech workshops with multiple vehicle doors that do not minimize exterior elements from impacting workshop conditions should be considered as exterior, wet (EW) or oils, grease (O/G) environments.



Service Drive with High-Speed Roll-Up doors.
High-speed doors can control the environment throughout daily use. High speed doors provide ownership an environment that may rate for interior, wet, plus (IW+), exterior wet (EW), or oils/grease (O/G).



Oil and Lube Express.
An Oil Lube where environment is regularly exposed to automotive fluids, and is exposed to weather conditions due to door access design would be rated both/either (EW), or oils/grease (O/G).

4.1.5 Oils, Grease (O/G) Environment

4.1.5 Oils/Greases: See Section 3.4. *Product shall be manufacturer-declared for this category* where oil, grease, and/or fats may be present, based on manufacturing parameters, internal quality control criteria, and manufacturer experience with similar surfaces. Attributes to consider include, but are not limited to, product size, texture, structure, and drainage. Products meeting Oils/Greases criteria may require frequent maintenance to keep clean.

INFORMATIVE NOTE:

*Possible Areas of Use: Subject to determination by specifier and the criteria in this standard, may include, but are not limited to, **level areas regularly exposed to automotive fluids, “back of the house” fast food or family style restaurants, food preparation areas with grills or deep-fry equipment, and any area where oil, grease, and/or fats may be present so long as such floors are level, regularly cleaned, maintained, and free of standing water and contaminant build-up.***

INFORMATIVE NOTE:

*In the absence of superseding manufacturer-declared product use classification, excepting where measured DCOF is lower due to the impact of structure on the DCOF measurement, it is generally accepted that hard surface flooring in this category should have **at least a minimum wet DCOF value of 0.55***, with factors other than wet DCOF also taken into consideration. Such factors include, but are not limited to, expected contaminants, drainage, surface structure, effect of structure on the DCOF measurement, number of grout joints (see Informative Note in Section 9.1.7), traction-enhancing features, and intended use, in addition to the other criteria in this standard. As the suitability of the installed hard surface flooring depends significantly on such factors, a single normative DCOF limit value is not provided.*

MANUFACTURER-DECLARED USE

34 Manufacturer-Declared Product Use Classification: *Manufacturer shall declare product use classification based on manufacturing parameters, internal quality control criteria, their experience with similar surfaces, and the criteria in this standard for all surfaces classified under Sections 4.1.3, 4.1.4, and 4.1.5, mosaic surfaces, and flooring where surface structure (e.g. three-dimensionally patterned or profiled surfaces) results in misleading DCOF measurements due to test device constraints. Optionally, surfaces classified under Section 4.1.2 shall also be permitted to be manufacturer-declared. Hard surface flooring manufacturer shall define internal product selection criteria (for example, but not in limitation, DCOF limit values established using this test method or other test methods, internal reference standards and practices, and/or the presence of abrasive grain and/or surface structure) for each product where the manufacturer-declared product use classification is not based on DCOF criteria developed per this standard. Regardless of declared product use classification, specifier shall determine materials appropriate for specific project conditions, considering by way of example, but not in limitation, type of use, traffic, expected contaminants, expected maintenance, expected wear,³ and manufacturers’ guidelines and recommendations.*

INFORMATIVE NOTE: *Normative measured DCOF limit values are not provided in this standard for exterior applications, interior ramps and inclines, pool decks, shower floors, **or flooring that is contaminated with material other than water** or where minimal or no footwear is used.*

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driveseries12
USA



eshop2usa
better technology, better results



enviroshop
smarter, better workshops



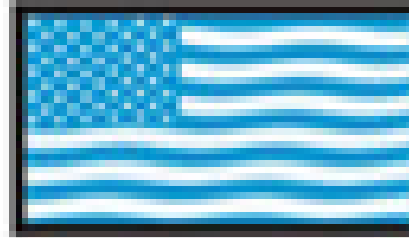






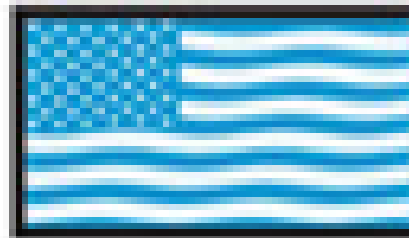
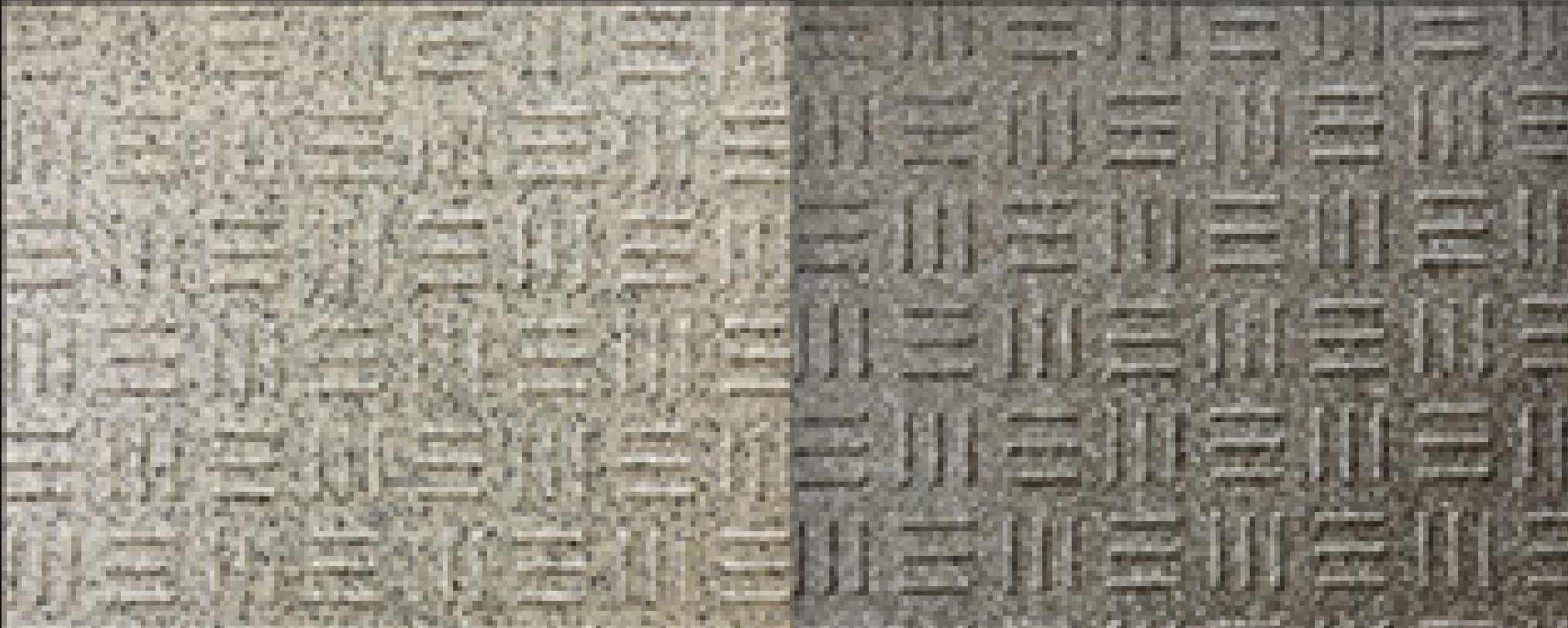





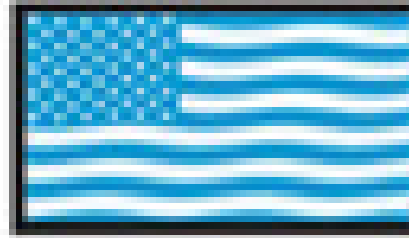






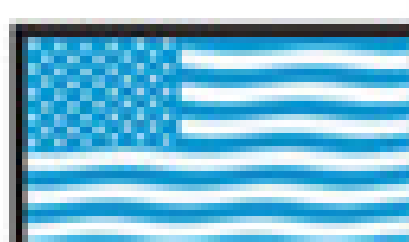
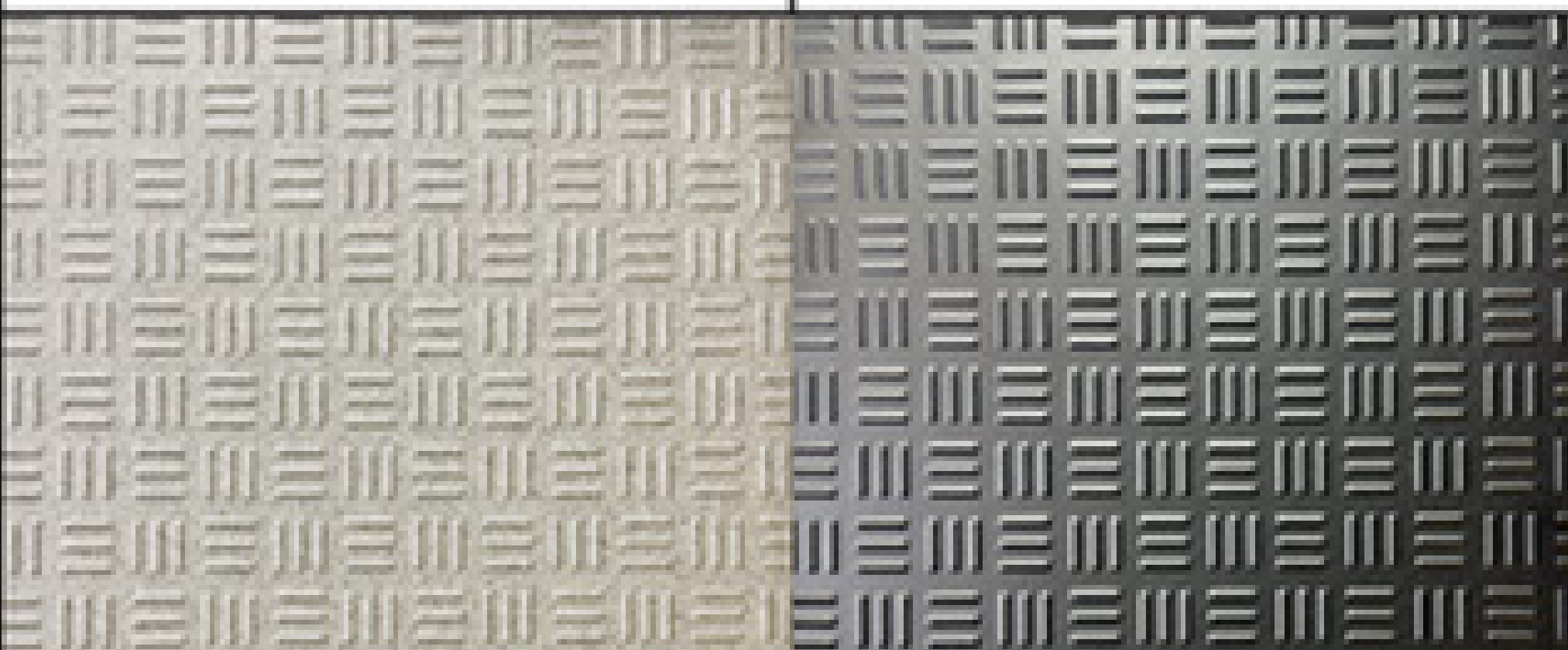





driveseries8
USA



driveseries8
USA

autostoneusa

Series	Tile Size	Surface Technology & Design		Country of Origin	Declared ANSI A326.1-3 Use Environment
eShop2USA 8x8 	8" x 8" (nominal) 10 mm (thickness)	Flat structure with traction surface. Enhanced surface structure.		Made in USA 	4.1.3 Interior Wet (IW+) 4.1.4 Exterior Wet (EW) 4.1.5 Oils, Grease (O/G)
					
Alloy Grey Genesis/Carbon Black					
DriveSeriesUSA 8x8 	8" x 8" (nominal) 10 mm (thickness)	(3) Lines of elevated traction. Performance traction surface for STF management.		Made in USA 	4.1.3 Interior Wet (IW+) 4.1.4 Exterior Wet (EW) 4.1.5 Oils, Grease (O/G)
					
Alloy Grey Genesis/Carbon Black					
EnviroShopUSA 12x12 	12" x 12" (nominal) 9.4 mm (thickness)	Flat structure with traction surface. Enhanced surface structure.		Made in USA 	4.1.3 Interior Wet (IW+)
		Rectified Edges 			
Alloy Grey Smoke Grey Carbon Black					
DriveSeriesUSA 12x12 	12" x 12" (nominal) 9.4 mm (thickness)	(3) Lines of elevated traction. Performance traction surface for STF management.		Made in USA 	4.1.3 Interior Wet (IW+) 4.1.4 Exterior Wet (EW) 4.1.5 Oils, Grease (O/G)
		Rectified Edges 			
Alloy Grey Carbon Black					

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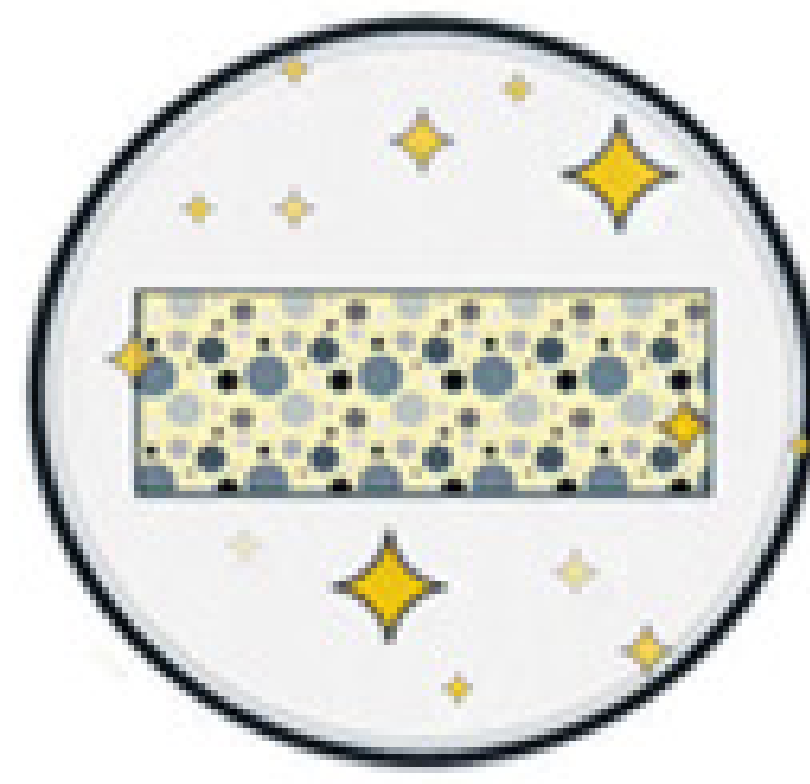
Your Shop is an Extension of your Showroom!

Service drives sales and service generates revenue. AutoStoneUSA builds better service departments and delivers you a better ROI!

With more tile platforms than anyone and all Made in the USA, AutoStoneUSA has the right permanent floor system for your dealership service department.

AutoStoneUSA technology helps you keep your workshop in a “like new” appearance.

brightfinish
ultra-cleanable technology



All AutoStoneUSA service drive and workshop series come with brightfinish. This technology seals our textured surface to retard rubber transfer, dirt, oils, and grime from permanently embedding in the surface. It also aids dealers with the regular maintenance cleaning process so floors can be kept in a **“like new”** appearance.

Cleaner, safer, better workshop floors.

AutoStoneUSA has the right tile floor solution for your dealership.



enviroshop
smarter, better workshops

autostoneusa

Cleaner, Safer, & Better WorkShops.

AutoStoneUSA builds better facilities, better results and longevity. A permanent floor system.



Technology that Works!

AutoStoneUSA designs, engineers and builds exclusively for the automotive retail and service environment.

We have 25+ plus years of automotive experience, listening to dealers, builders, architects and collaborating with automotive brands. No one knows more or performs better than AutoStoneUSA.

Advanced Technology, Better Results.

Examples of our proprietary technology include Super.Grip, BrightFinish, Clean.Tech.USA, and other quality enhancements. We have more solutions to meet your facility needs than anyone. We are dedicated to the automotive industry and we are passionate in our pursuit of your satisfaction.

AutoStoneUSA Proprietary Technologies.

Super.Grip



This new high surface texture is formed by nano particles embedded on the surface platform to deliver added STF benefits.



Clean.Tech.USA



The AutoStoneUSA approach for building better tile products for use in automotive facilities. Report cleaner facilities and overall safer retailing environments with Clean.Tech.USA

brightfinish - ultra cleanable technology



A permanent sealant applied during the kiln firing to seal surface micropores. This retards permanent staining, rubber transfer, and aids dealers with maintenance cleaning. With brightfinish and regular floor cleaning; floors are able to maintained in a **"like new"** appearance for the life of facility.

Clean floors reflect better on your dealership and brand. Clean floors help reduce STF events.

Rectified Edges



Tighter grout lines are better. Precision cut for a quality installation. Less grout=less grime.

Permanence and Performance through Planning.

Achieve better results, build the AutoStone way. We are automotive flooring experts and here to help you achieve the best results.



Better Installation Methods.

For longevity and permanence we recommend these steps which deliver better overall results.

- * Installation the thinset way! Thinset allows for the widest range of qualified flooring contractors to support your work.
- * 100% thinset coverage. This fully bonds the tile to the concrete substrate. This assures that all surface impacts are distributed to the concrete slab below.
- * Full crack isolation membrane coverage. When slabs move, this keeps your floor intact.

Chain-Rake Quality Check.

The Chain-Rack QC Check eliminates 95% future latent warranty issues. You can't see if your tile floors are fully bonded; **but you can hear when they are not!**



Chain-Rakes are shipped with your workshop tile order. We work with ownership, architect, general contractor, and flooring contractor to assemble the best team to build your floors!

When you implement the **Chain-Rake QC Check**, you quickly identify those tiles not fully bonded to the substrate. When you hear the hollow sound of tiles not fully bonded to the substrate they are to be removed.

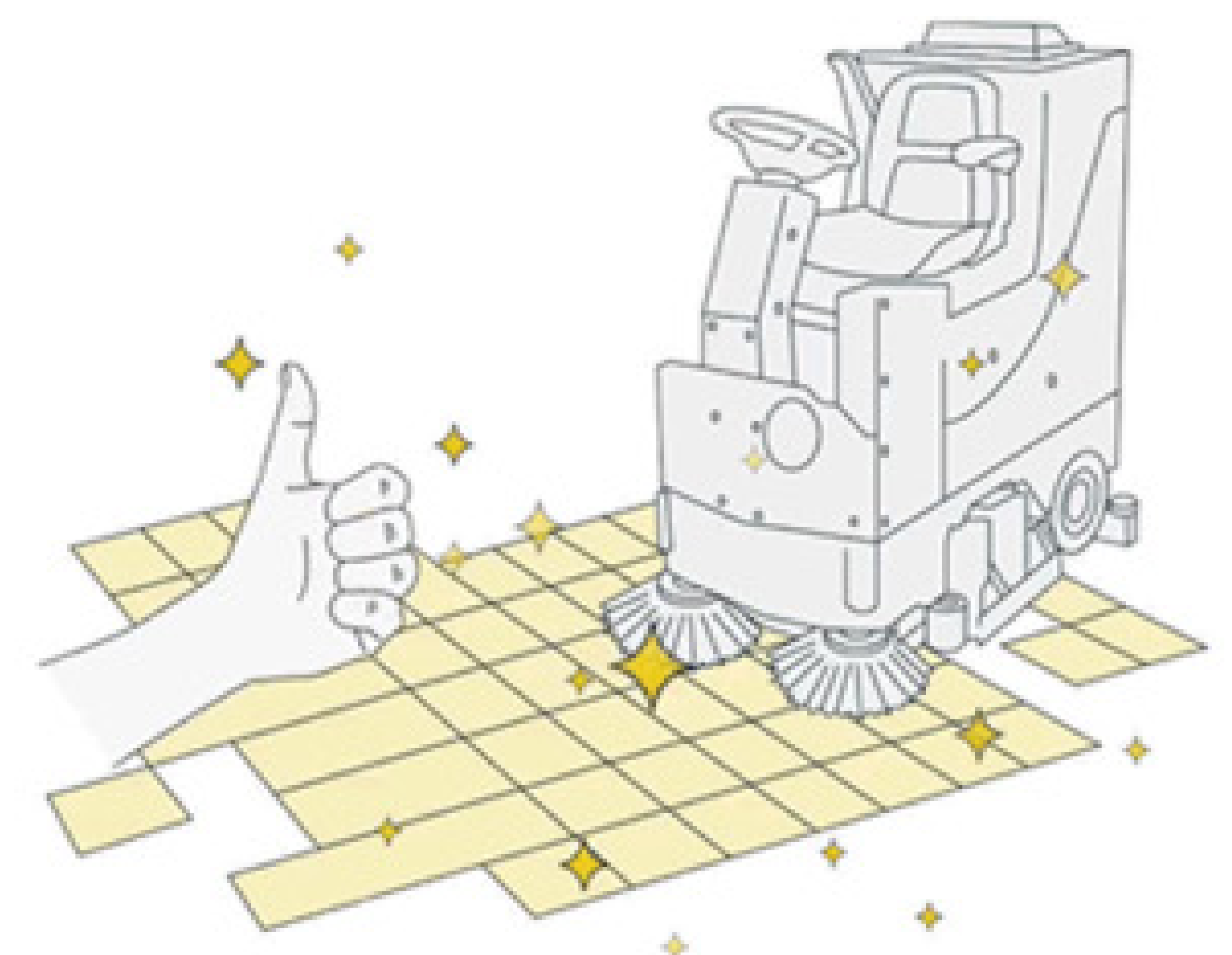
The AutoStoneUSA Chain-Rake Method provides a fast-and-easy method to deliver better results!

Longevity, Strength, Quality, Performance & Assurance.

A Culture of Clean - Maintenance and Cleaning Recommendations.

Welcome to the AutoStoneUSA "Culture of Clean" developed to help your dealership with the best cleaning practices, methods and processes possible. We provide real world cleaning instructions for the reality of your business.

The nature of the automotive dealership includes spaces where vehicles are driven on floors which track onto the floor all type of elements such as oil, grease, asphalt and other contaminants. In the service drive and workshop, you have a greater exposure to the elements which requires a higher degree of cleaning vigilance.



We recommend you follow this daily cleaning regimen which keeps your floors in a "like-new" condition and removes the daily dirt, oils, and contaminants that are the result of your business operations. Doing these steps reduce your STF risk and keeps your dealership looking great. Cleaning instructions are found online on our website.



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WorkShop & Service Drive Environments

autostoneusa.com