K&M CONCRETE CONSTRUCTION INC

DUCTILCRETE™ Technologies

WHAT IS DUCTILCRETE???

- DUCTILCRETE IS A PATENTED, DUAL LAYER SLAB SYSTEM WHICH DELIVERS HIGH PERFORMANCE SLAB SYSTEMS FOR BOTH INTERIOR SLABS AND EXTERIOR PAVEMENTS
- DESIGNED TO BE VIRTUALLY MAINTENANCE AND CURL FREE
- PROVIDING THE END USER WITH SUPERIOR, STATE OF THE ART SLAB SYSTEMS AT COST COMPETITIVE PRICES
- INCLUSIVE OF THE INDUSTRY'S MOST COMPREHENSIVE 5 YEAR WARRANTY

OUR #1 GOAL IS TO DELIVER VALUE

LESS IS MORE!!!

- 75% REDUCTION IN JOINTS AND JOINT MAINTENANCE
- INCREASED LOAD CAPACITY
- MORE FLEXIBILITY, MORE USABLE SPACE
- VIRTUALLY CURL FREE
- ELIMINATE REBAR AND WWF
- NO REQUIREMENT OF ADDITIONAL DENSIFIERS/HARDENERS
- GUARANTEED F_F F_L VALUES

RESEARCH & DEVELOPMENT

- DUCTILCRETE'S OLDEST SLAB IN PLACE 10+ YEARS
- ALLIANCE FORMED IN APRIL, 2012
- OVER 427 PROJECTS IN PLACE TOTALING OVER

190 MILLION SQUARE FEET

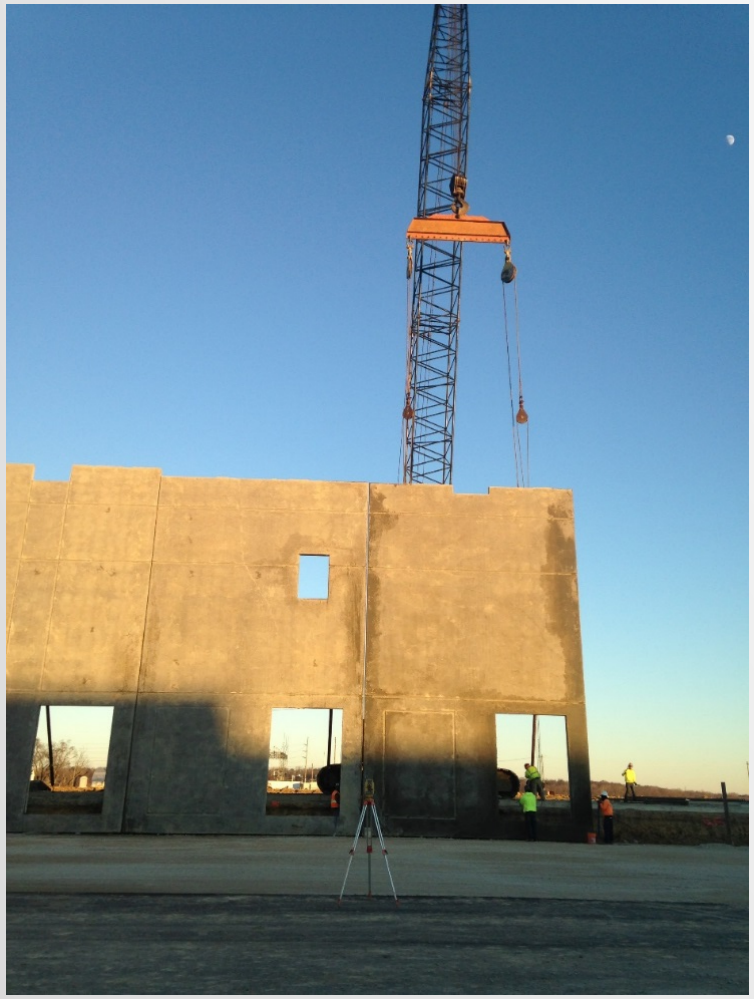
- GROWING ALLIANCE OF NATIONAL INSTALLERS
- DESIGN/BUILD PROCESS-PROVIDING ENGINEERED STAMPED DRAWINGS
- DC DESIGNS BECOMES THE SLAB ENGINEER OF RECORD

GROWING NUMBER OF ALLIANCE MEMBERS ACROSS THE US AND CANADA

DUAL LAYER SYSTEM

DUCTILCRETE HEIDEBED SYSTEM

FORM, POUR, AND ERECT TILT UP PANELS FROM CASTING BED SLAB



HEIDEBED ADVANTAGES

- BENEFITS
  - PROVIDES A WORKING SURFACE FOR OTHER TRADES
  - ENCLOSE THE BUILDING AND AVOID WEATHER CONDITIONS
  - SIGNIFICANT SAVINGS IN SUBBASE REMEDIATION
  - SLABS CAN BE PLACED UNDER ROOF ELIMINATING WEATHER DELAYS

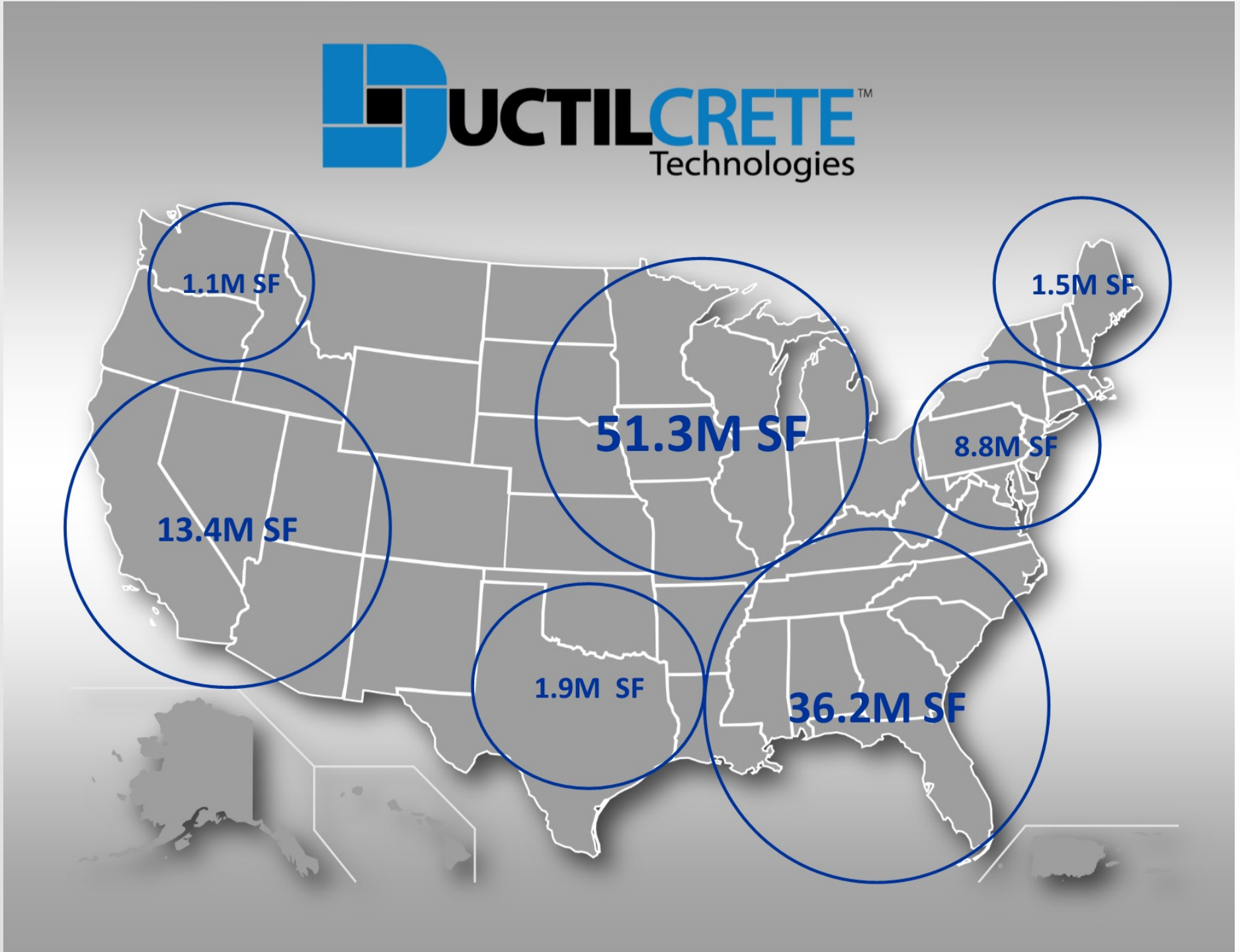
- VERSITILITY
  - INCREASED LOAD CAPACITY
  - THE TOPPING SLAB PROFILE CAN BE MODIFIED TO ACCOMMODATE THE FUTURE TENANT

- AESTHETICS/APPEARANCE OF FINISHED SLAB
  - NO PATCHING REQUIRED
  - NO DAMAGE TO THE FINAL SLAB PRODUCT
  - PANELS ARE FORMED, PLACED, AND ERECTED ON THE BASE SLAB
  - THE SLABS ARE POURED LAST AND HAVE NO EXPOSURE TO DAMAGE BY
  - OTHER TRADES

DUCTILCRETE HEIDEBED SYSTEM

THE RESULT…DUCTILCRETE SLABS WITHOUT THE RESIDUAL EFFECTS OF TILT UP CONSTRUCTION ON THE FINISHED PRODUCT

DEVELOPERS USING DUCTILCRETE


DUCTILCRETE™
Technologies
1.1M SF
13.4M SF
51.3M SF
1.9M SF
36.2M SF
8.8M SF
1.5M SF

SATISFIED CLIENTS NATIONWIDE

INCREASED LOAD CAPACITY

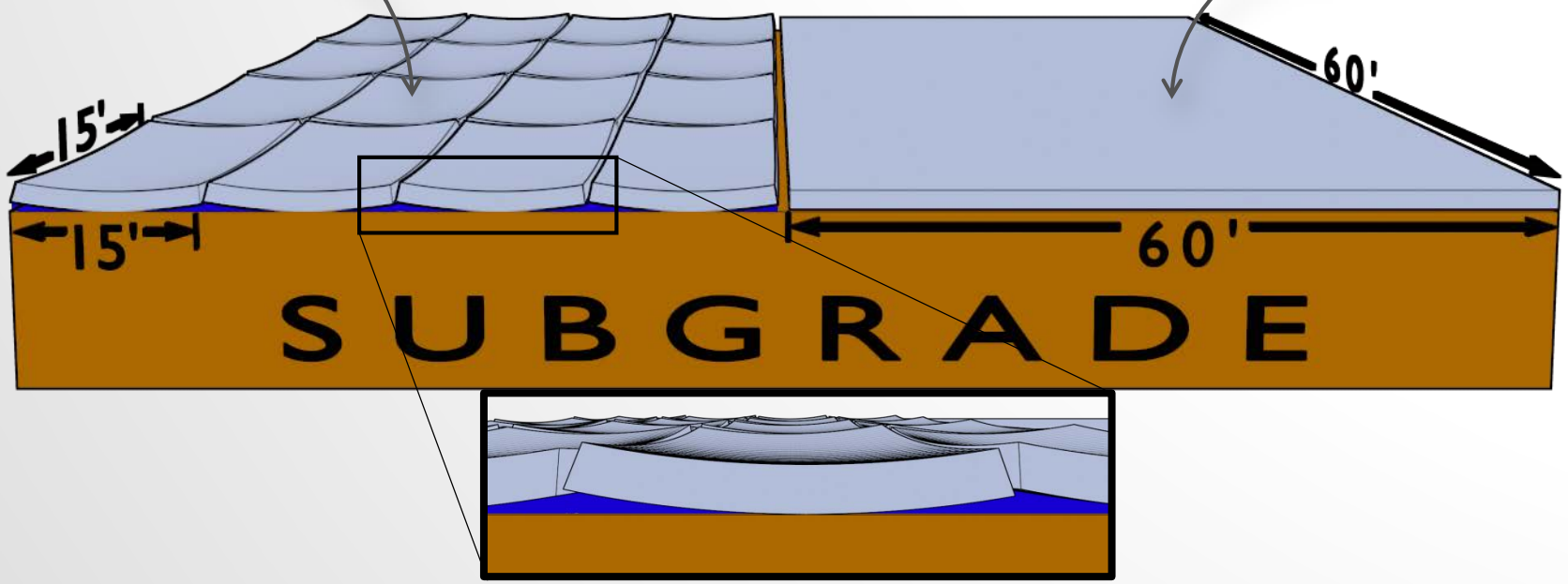
Ductilcrete remains in contact with the ground resulting in higher load capacities while using thinner profiles.

GREATER THAN **30%** OF EACH 15'x15' SECTION OF SLAB IS **NOT** IN CONTACT WITH THE SUB-BASE.

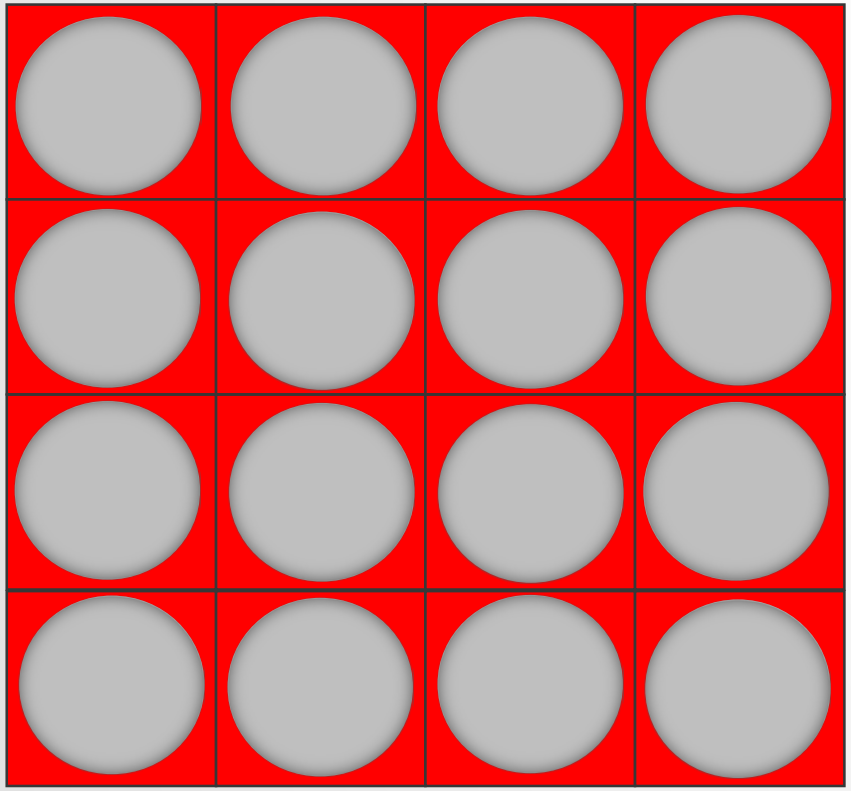
MORE THAN **98%** OF THE DUCTILCRETE SLAB STAYS IN CONTACT WITH THE SUB-BASE.

CONVENTIONAL (PER ACI)

DUCTILCRETE™ The Curl-Free Evolution of Concrete



WITH DUCTILCRETE YOU GET MORE USABLE SPACE AND THUS MORE FLEXIBILITY AS IT PERTAINS TO RACK LAYOUT

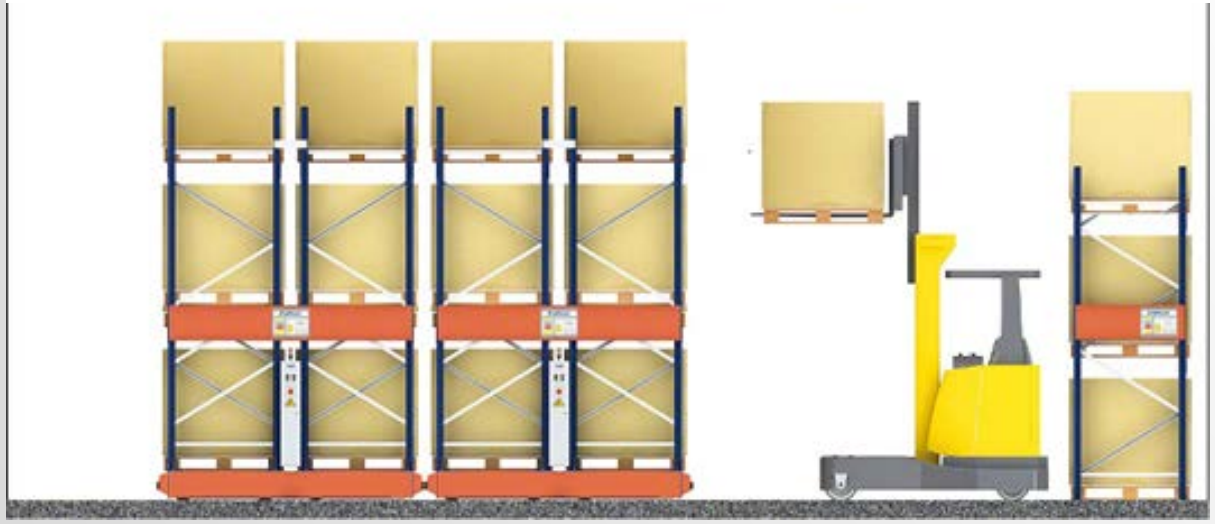


GREATER THAN **30%** OF EACH 15'x15' SECTION OF SLAB IS **NOT** IN CONTACT WITH THE SUB-BASE.

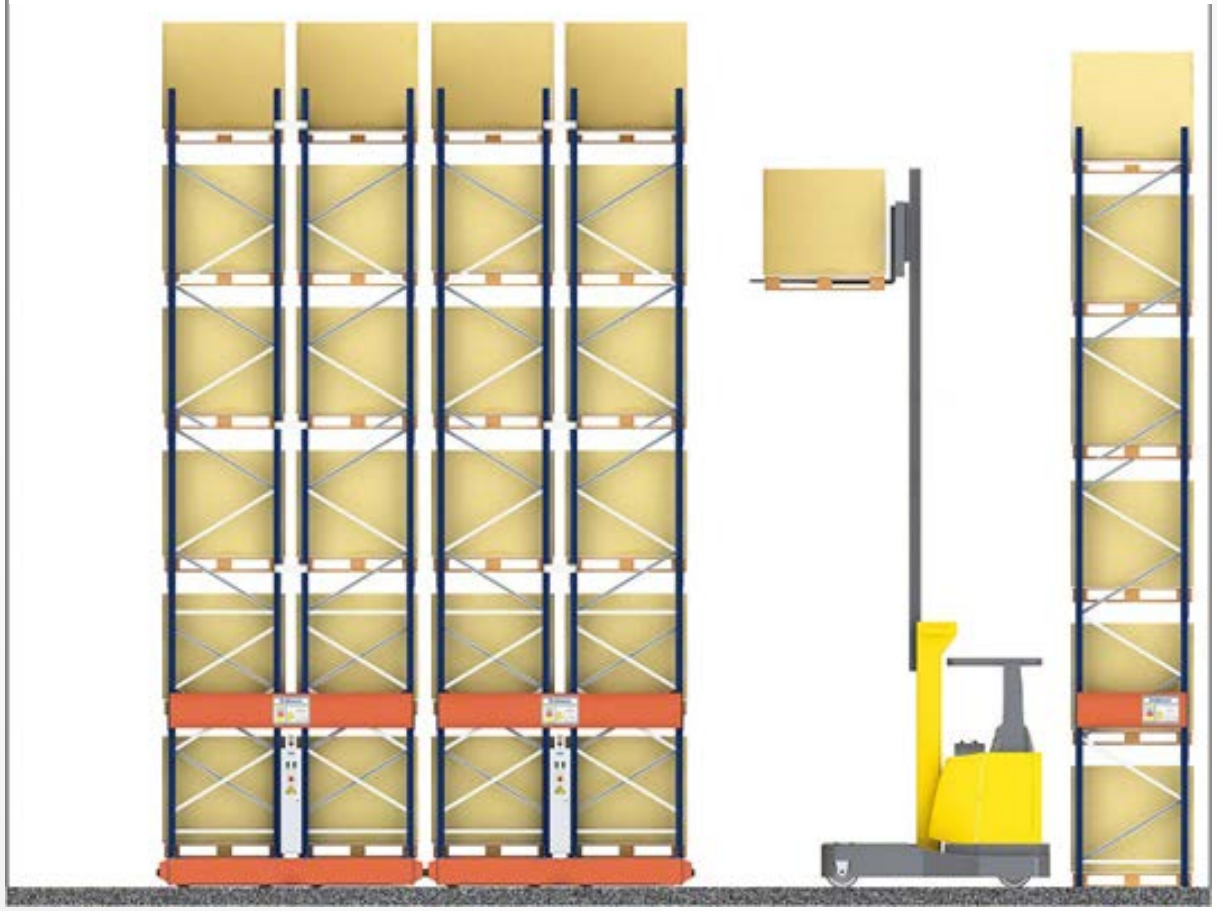
APPROXIMATELY **98%** OF THE DUCTILCRETE SLAB **STAYS IN CONTACT** WITH THE SUB-BASE.

DUCTILCRETE PROVIDES DOUBLE THE LOAD CAPACITY OF CONVENTIONAL CONCRETE

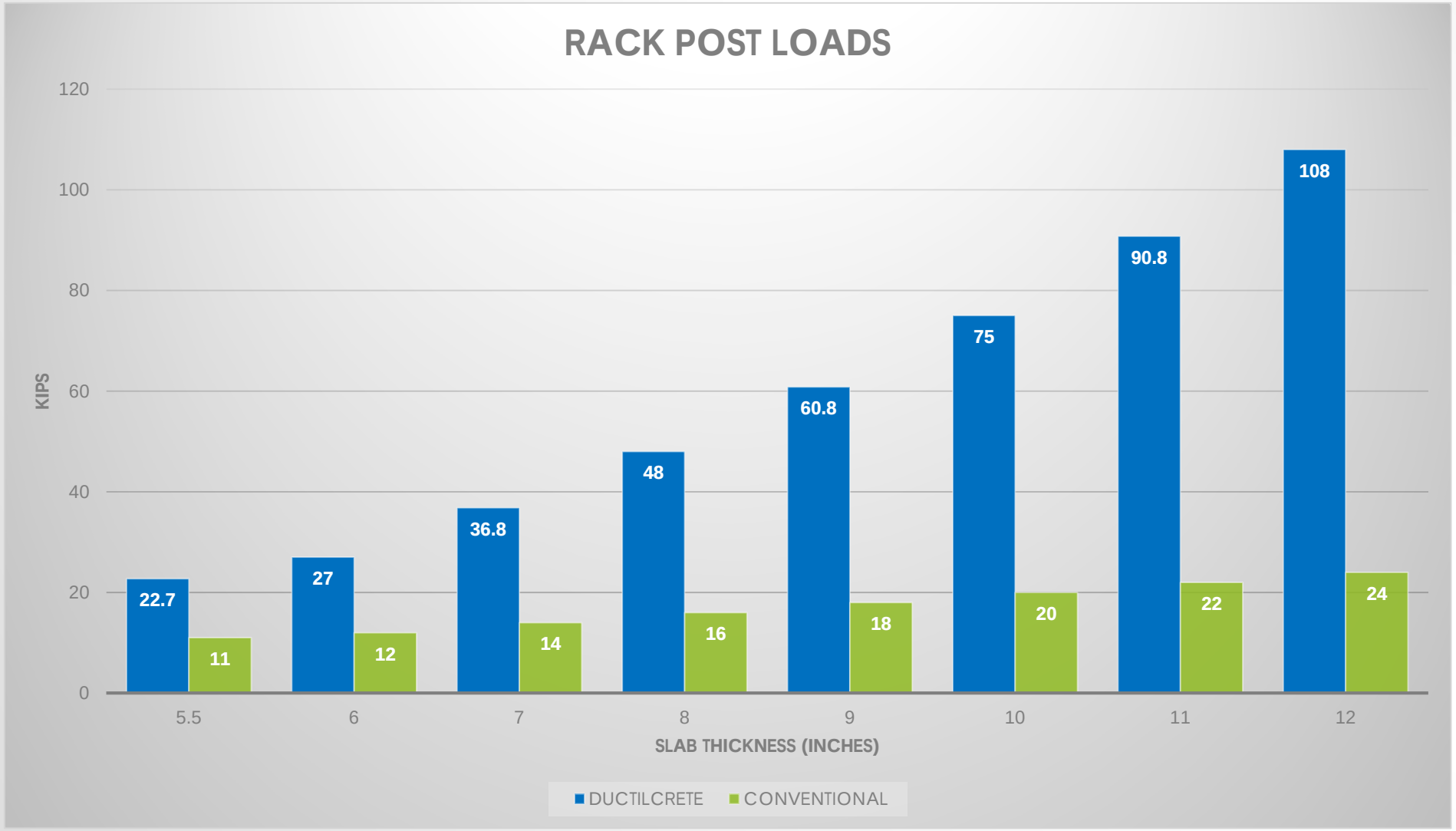
6” CONVENTIONAL SLAB HAS A LOAD CAPACITY OF **12 kips**



6” DUCTILCRETE SLAB HAS A LOAD CAPACITY OF **27 kips**



DUCTILCRETE RACK POST LOAD COMPARISON TO CONVENTIONAL CONCRETE



ADVANTAGES OF DUCTILCRETE SLABS IN COMPARISON TO CONVENTIONAL SLABS

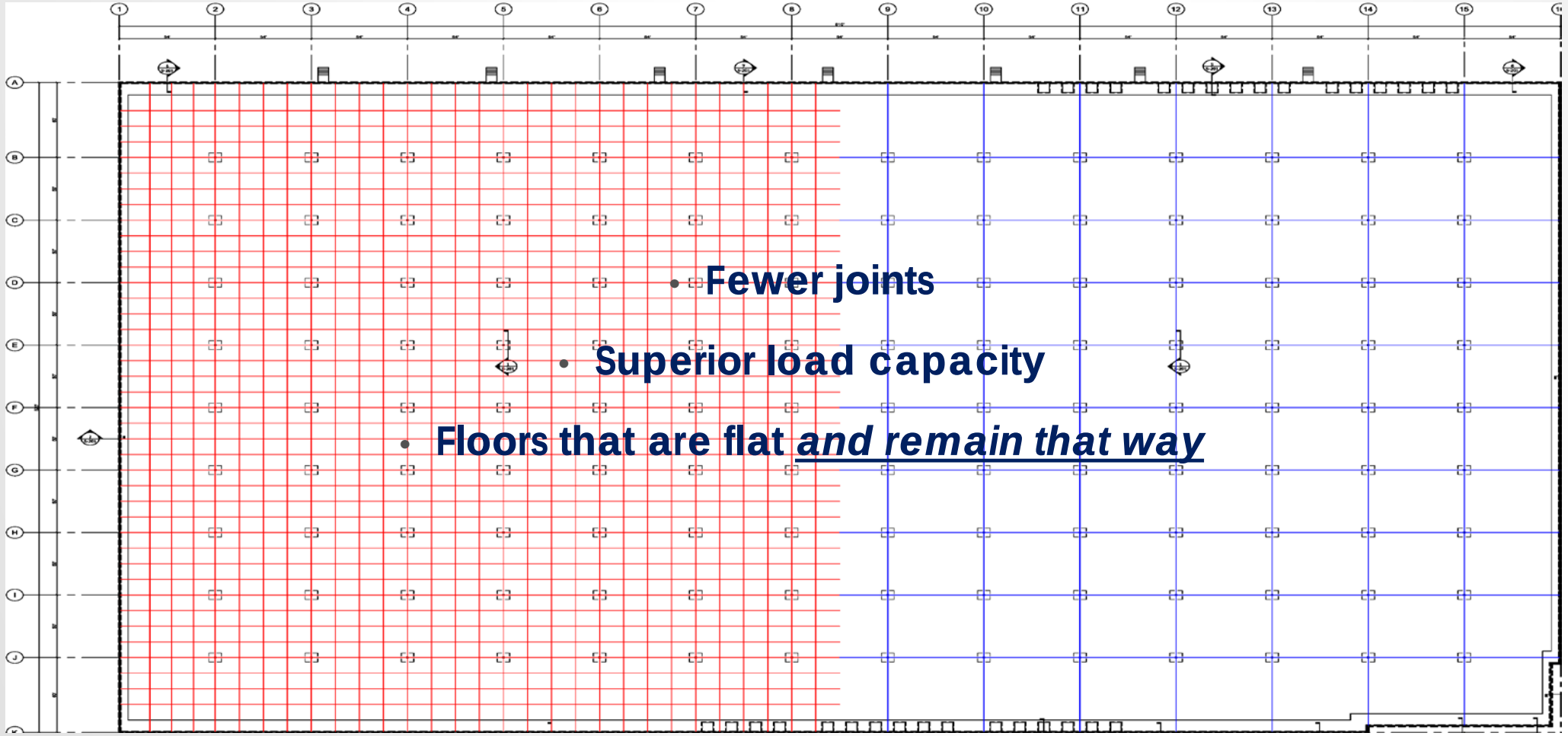
DUCTILCRETE				
SLAB THICKNESS	5 ½"	6"	7"	8"
LOAD CAPACITY/RACK POINT LOADS	22.7 kips	27.0 kips	36.8 kips	48.0 kips
SLAB CURLING	APPROXIMATELY 98% OF THE SLAB REMAINS IN CONTACT WITH THE SUBBASE			
MAINTAIN SPECIFIED OVERALL FF/FL	90 % OF SPECIFIED VALUES			
LF OF CRACKS/SF OF SLAB	≈ 1%			
SAW CUT/JOINT FILL/ JOINT MAINTENANCE	50' TO 60' TO COLUMNS - 75% REDUCTION IN JOINTS AS COMPARIED WITH ACI DESIGN			
FLEXABILITY WITH RACK AND MEZZANINE LAYOUT	NO RESTRICTIONS			
GUARANTEE	3-5 YEARS			
CRACK REPAIR INCLUDED	>0.030"			
CURLING REPAIR INCLUDED	YES			
JOINT ROCKING REPAIR	>0.010"			
JOINT STEPS REPAIR	YES			
DELAMINATION REPAIR	>0.002%			
DETERIORATION AND EXCESSIVE WEAR	>NORMAL WEAR AND TEAR			

CONVENTIONAL				
SLAB THICKNESS	5 ½"	6"	7"	8"
LOAD CAPACITY/RACK POINT LOADS	11 kips	12 kips	14 kips	16 kips
SLAB CURLING	APPROXIMATELY 30% OF SLAB REMAINS IN CONTACT WITH SUBBASE			
MAINTAIN SPECIFIED OVERALL FF/FL	NO			
LF OF CRACKS/SF OF SLAB	3%			
SAW CUT/JOINT FILL/ JOINT MAINTENANCE	JOINT SPACING VARIES FROM 9' TO 15' MAX PER ACI			
FLEXABILITY WITH RACK AND MEZZANINE LAYOUT	2' MINIMUM DISTANCE FROM JOINTS/JOINT INTERSECTIONS			
GUARANTEE	1 YEAR			
CRACK REPAIR INCLUDED	NO			
CURLING REPAIR INCLUDED	NO			
JOINT ROCKING REPAIR	NO			
JOINT STEPS REPAIR	NO			
DELAMINATION REPAIR	NO			
DETERIORATION AND EXCESSIVE WEAR	NO			

COLUMNS BEARING ON THE SLAB

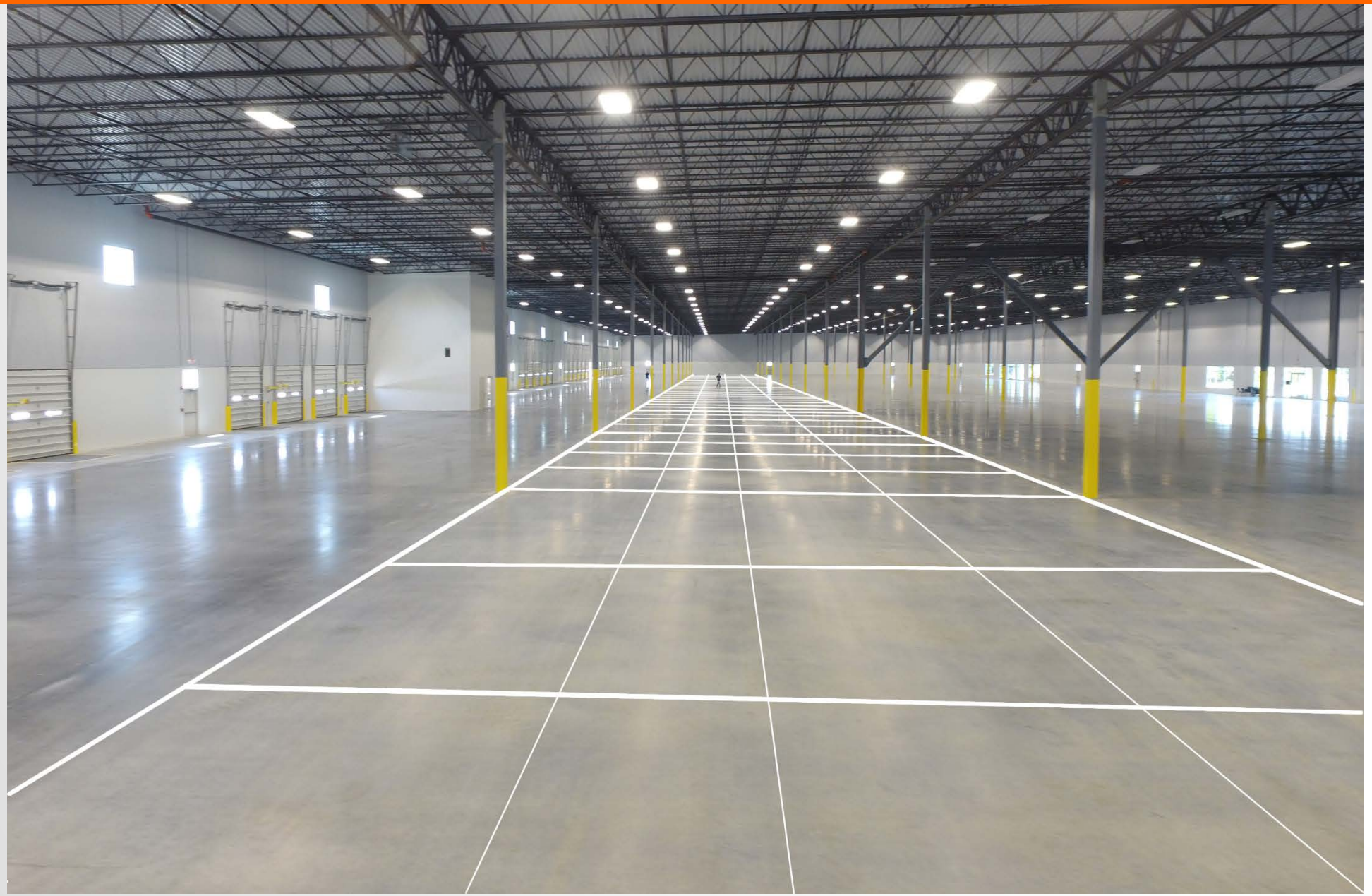
EASTON BELL SPORTS – RANTOUL, IL 800,000 sf - COMPLETED MAY 2013

LET'S COMPARE!!!

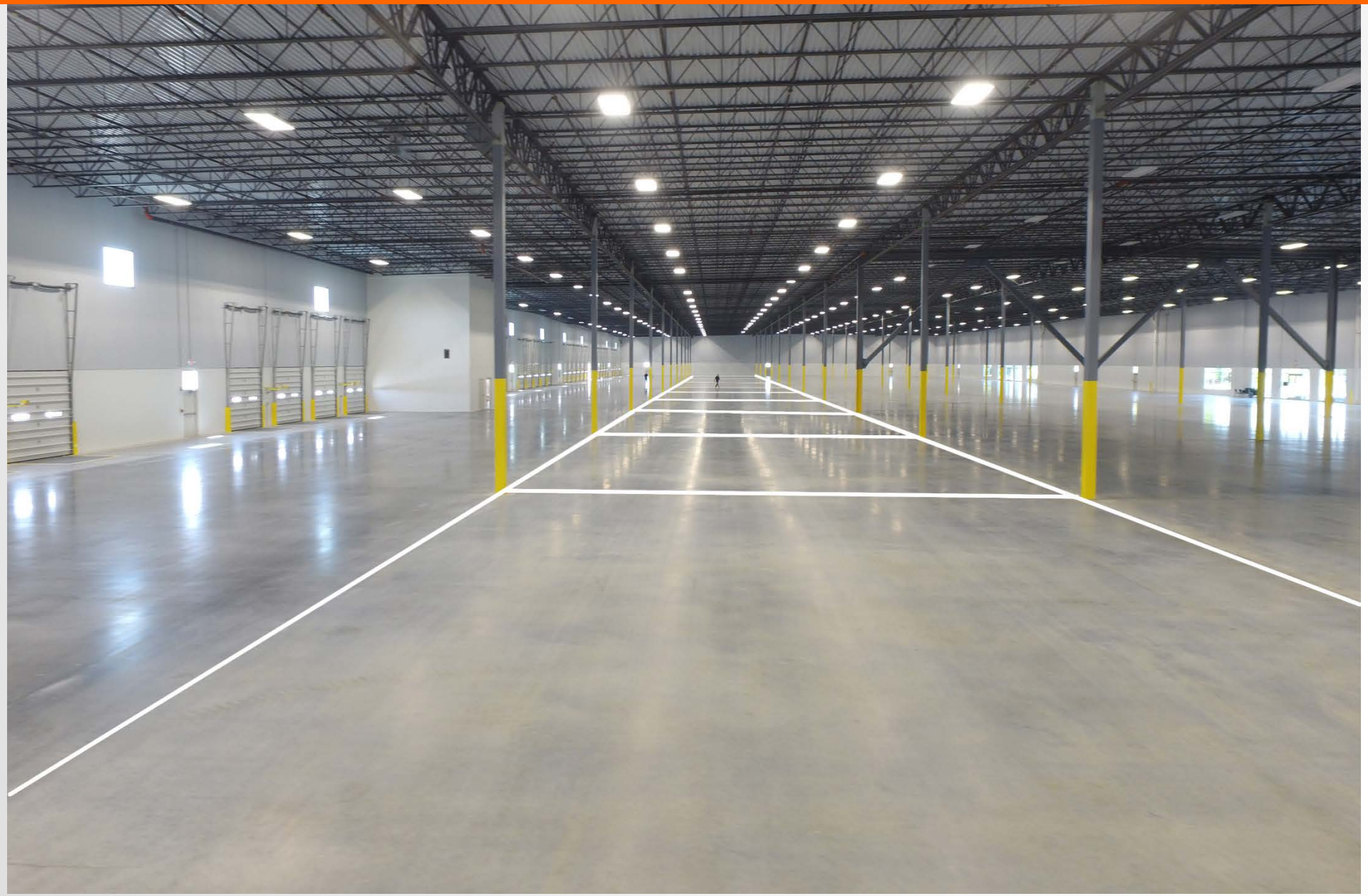


Based on 500,000 s.f. warehouse.	8" Conventional (Per ACI)	6" DUCTILCRETE	7" DUCTILCRETE
kips	16.0 kips	27.0 kips	36.8 kips
Joint Quantity	68,000 l.f.	20,000 l.f.	20,000 l.f.
F_F/F_L	35/25	50/40	50/40

JOINTS PER CONVENTIONAL DESIGN

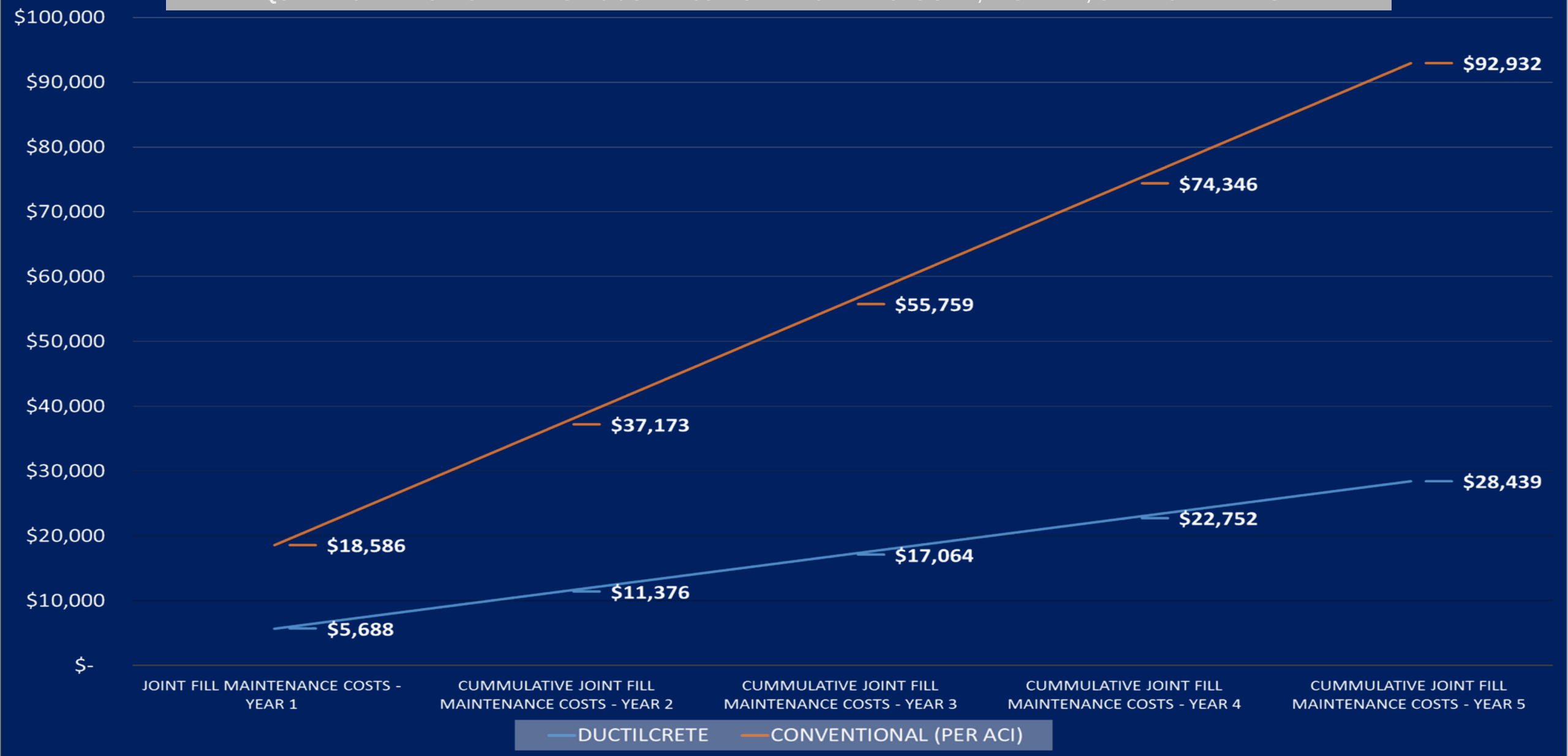


JOINTS PER DUCTILCRETE DESIGN



JOINT MAINTENANCE COMPARISON - CONVENTIONAL DESIGN COMPARED TO DUCTILCRETE

QUANTITIES ARE BASED ON RE-FILL OF 20% OF THE JOINTS IN THE SPEED AISLES ONLY, EACH YEAR, OVER A 5 YEAR PERIOD



TOTAL CUMMULATIVE SAVINGS IN JOINT FILL MAINTENANCE OVER 5 YRS = $64,493.00 [$0.31/SF]

Based on 210,600 sf facility

WARRANTY

- F_F/F_L – TO 90% OF ORIGINALLY SPECIFIED VALUES
- CRACKING – RANDOM, CORNER, RADIAL
- CURLING

DUCTILCRETE PAVING

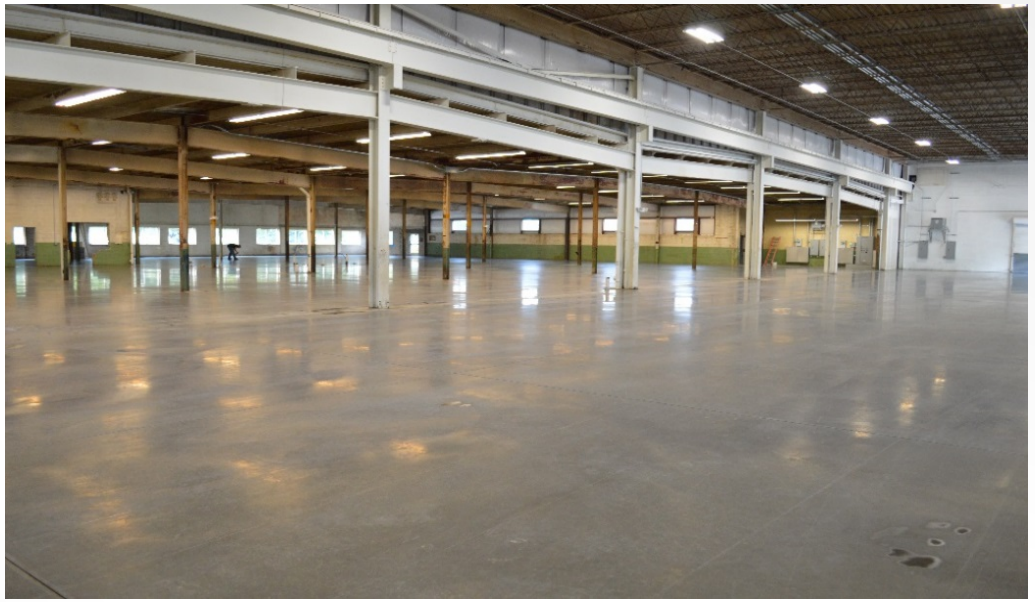
ADVANTAGES

- COMPETITIVE PRICING
- NO REQUIREMENT FOR JOINT FILLER
- DECREASED MAINTENANCE COSTS
- VIRTUALLY NO DELAMINATION
- 3 YEAR WARRANTY

GREEN IMPACT

- REDUCED HEAT ISLAND EFFECT
- REDUCED PROFILE THICKNESS
- REDUCED LIGHTING REQUIRED
- NO VOLATILE ORGANIC COMPOUNDS RELEASED INTO THE ATMOSPHERE
- ABSORPTION OF CARBON FROM ATMOSPHERE
- AVOIDANCE OF POTENTIAL ENVIRONMENTAL CLEAN-UP/ENCAPSULATION OF ASPHALT
- USE OF RECYCLED MATERIALS

DUCTILCRETE INTERIOR TOPPINGS



THANK YOU

For more information on Ductilcrete, please contact:

Michael Hoeft
Director of Business Development
michael@kmconcreteinc.com
507-350-9027