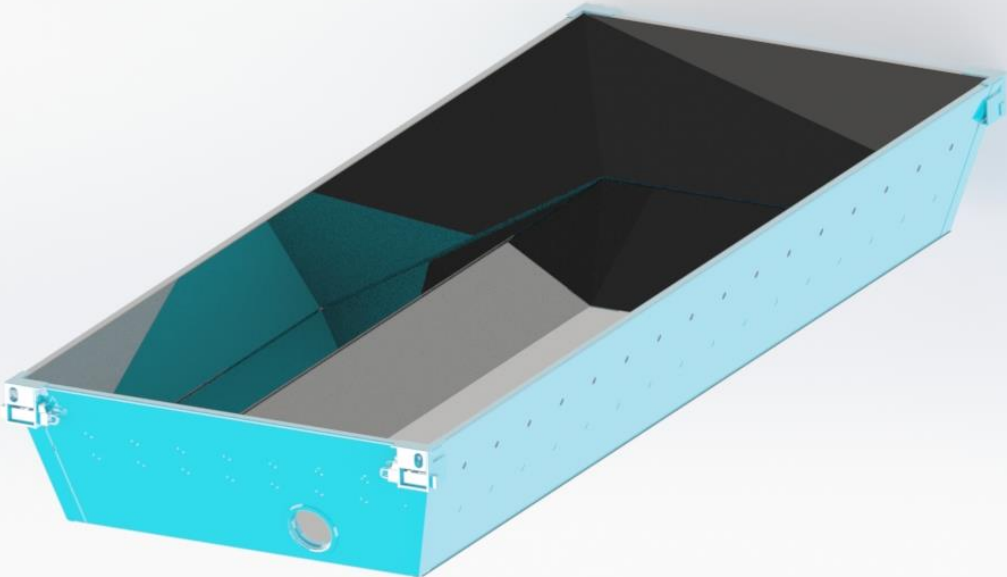


INTRODUCING THE FlexiBin 3S

THE NEXT REVOLUTION IN BULK LIQUID TRANSPORT



STRONGER

SAFER

SMARTER

Clive-Smith McKenna Limited

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THE FlexiBin 3S WHY THE NEED?

ADDITIONAL PAYLOAD AND IMPROVED ECONOMICS

- CURRENT FLEXITANK MARKET OF 580 000 SHIPMENTS PER ANNUM AND GROWING
- CURRENT PAYLOADS ARE LIMITED TO 24 000 KG OR 24 000 LITERS WHICHEVER THE GREATER
- IMAGINE BEING ABLE TO SHIP UP TO 27 000 LITERS IN A CONTAINER, AND DOING IT SAFELY*
- THIS MEANS UP TO 12.5% ADDITIONAL PAYLOAD OR ONE LESS CONTAINER PER 8 CONTAINERS SHIPPED
- AND A 12.5 % SAVINGS IN COST
- NO INCREASED RISK OF CONTAINER DAMAGE
- IN FACT, A REDUCED RISK OF CONTAINER DAMAGE AND LEAKAGE
- NO NEED TO DIAL BACK LOAD VOLUME ON HIGHER SG PRODUCTS = MORE SAVINGS
- NO OTHER EFFECTIVE SOLUTIONS OUT THERE, AND ALSO
- PERFECTLY SUITABLE FOR USE IN 40' CONTAINERS
- SIGNIFICANT SAVINGS ALL ROUND BACKED UP BY A COMPELLING SET OF ECONOMICS APPLYING ACTUAL COSTS AND A GENEROUS ESTIMATE FOR REPOSITIONING EMPTY UNITS
- AN ESTIMATED 2.6 MILLION KGs POTENTIAL LESS PLASTIC USED PER ANNUM AT CURRENT VOLUMES

*BASED ON USING A CONTAINER WITH 2mm WALL THICKNESS THROUGHOUT

REDUCED RISK OF CONTAINER DAMAGE AND LEAKAGE

- LARGE PAYLOADS RESULT IN CONTAINER DAMAGE AND IMPACT ON PUBLIC SAFETY
- AN ESTIMATED 428 000 ARE LARGE PAYLOAD LOADS I.E. 24 000 LITERS
- CONTAINER SIDE WALL DAMAGE WEAKENS THE STRUCTURE AND MAY CAUSE STACK FAILURE
- VERY FEW ACTUAL INCIDENTS ARE FORMALLY RECORDED (PERHAPS ONLY 10%)
- LARGE DAMAGE BILLS ARE BEING PAID BY SOMEONE, AND/OR
- EQUIPMENT CONDITION AND ASSET VALUE IS BEING COMPROMISED
- ONCE A CONTAINER IS DAMAGED IT CANNOT BE USED FOR FLEXITANK LOADS BEFORE BEING REPAIRED
- ROUGHLY AROUND 40% OF CONTAINERS AFFECTED I.E. SOME 170 000 PER ANNUM
- THIS REPRESENTS AN ESTIMATED \$136 MILLION ANNUAL SPEND*
- IF ONLY 10% ARE BEING REPORTED WHO IS COVERING THE OTHER \$122 MILLION?
- MOST DAMAGE OCCURS DURING CONTAINER HANDLING
- WITH CARRIERS' INCREASED SCRUTINY ON DAMAGE COSTS THE FlexiBin S3 WILL REDUCE COST EXPOSURE
- REDUCE OR ELIMINATE FLEXITANK SURCHARGES

*BASED ON RESEARCHED DEPOT COSTS TO REPLACE ONE SIDE WALL ASSEMBLY ONLY. ACTUAL COST MAY BE HIGHER THAN THIS DUE TO BOTH SIDE WALLS BEING DAMAGED AND REPAIRS REQUIRED TO TOP AND BOTTOM SIDE RAILS

THE FlexiBin 3S WHAT IS IT?

A DE-MOUNTABLE DEVICE SUITABLE FOR CARRYING FLEXIBLE BULK TANKS

ROBUST ALL STEEL CONSTRUCTION CAVITY WALL SECTIONS ALLOWS FOR FITMENT OF HIGH PRESSURE HEATING TUBES AND INSULATION

MASS 825 kg – STRONG, LIGHTWEIGHT AND DAMAGE RESISTANT DESIGN

COATED WITH MARINE PAINT SYSTEM

EASY TO HANDLE

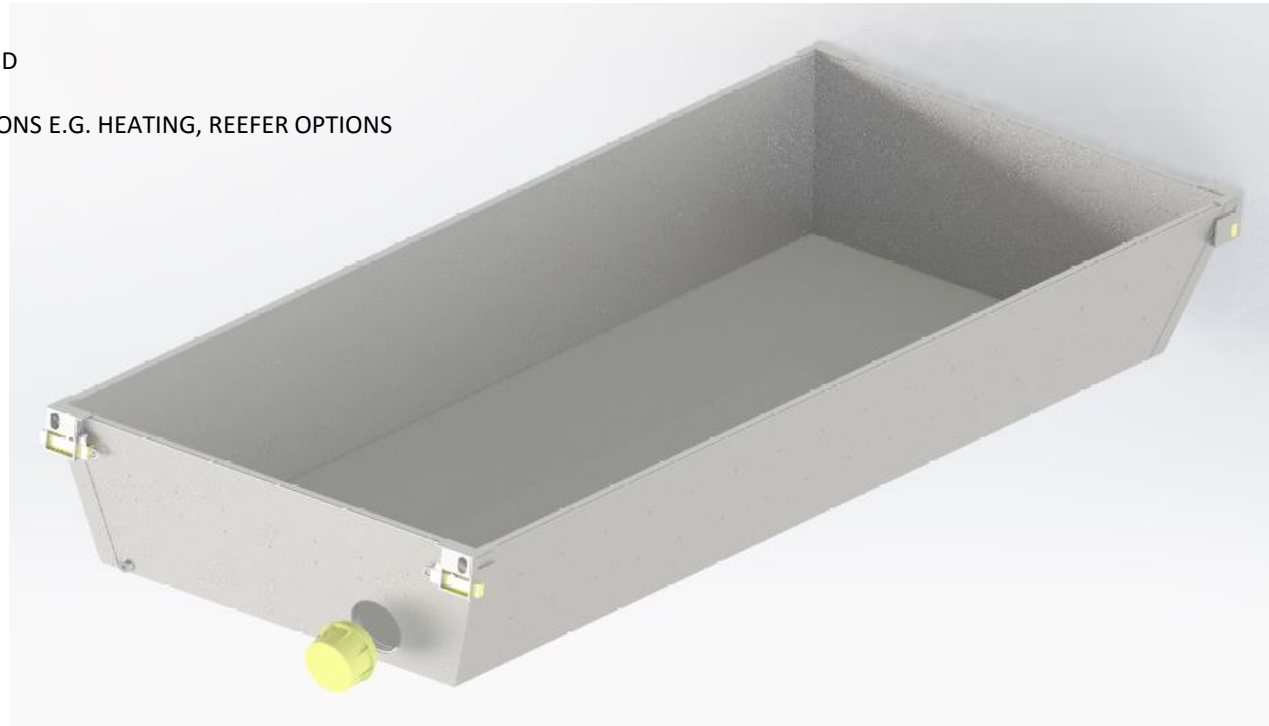
CAN BE USED IN BOTH 20' AND 40' CONTAINERS

PATENT PENDING

FULLY CAD DESIGNED AND PHYSICALLY TESTED

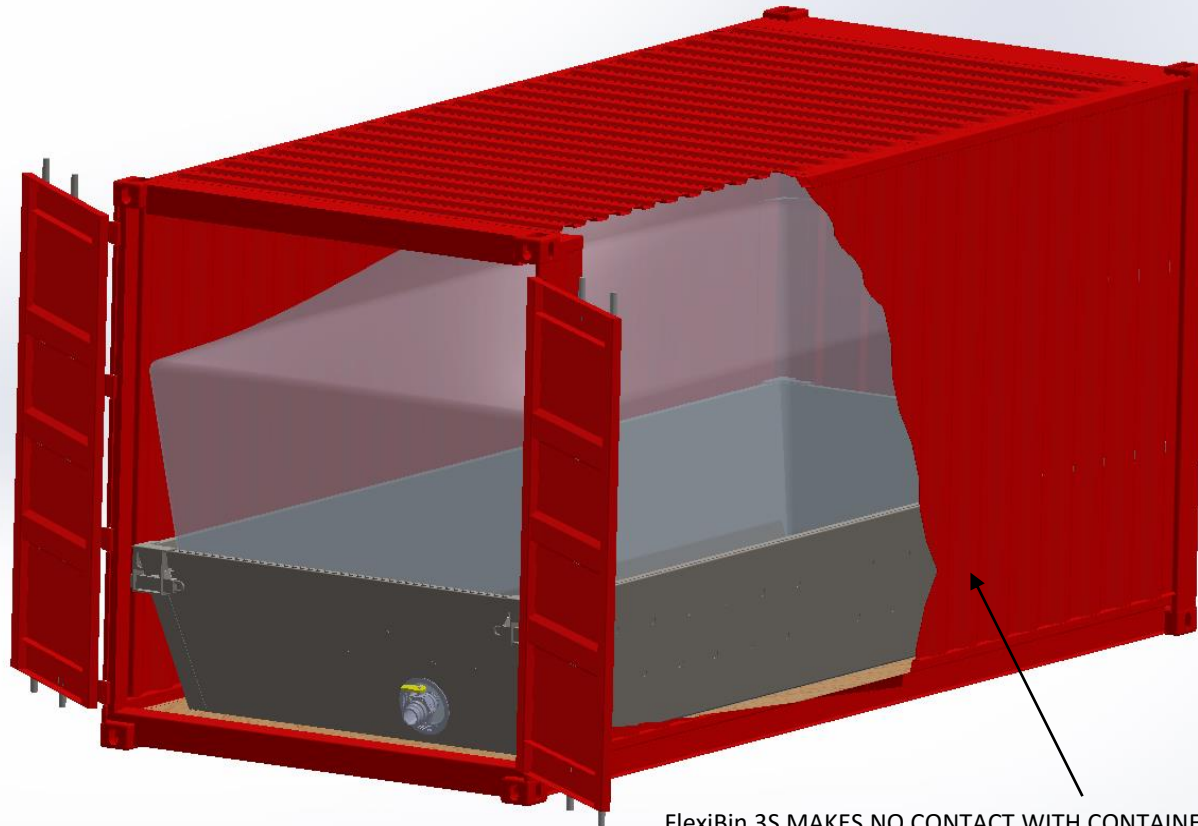
EASY TO ACCOMMODATE CUSTOMIZED OPTIONS E.G. HEATING, REEFER OPTIONS

EASY TO REPAIR



INCREASED PAYLOAD AND NO CONTAINER DAMAGE

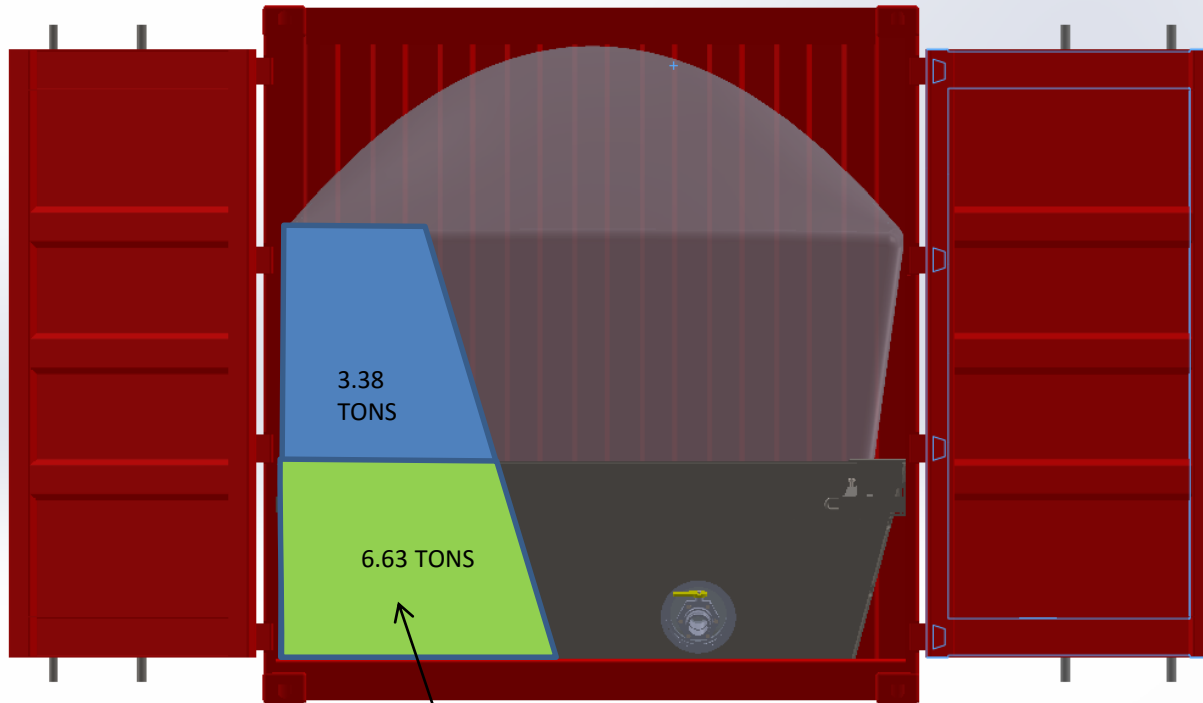
- FlexiBin 3S CAN ACCOMMODATE AT LEAST 4 ANTI-SURGE PADDED STRAPS ALONG ITS LENGTH IF REQUIRED
- IF REQUIRED, 2 OFF BRACING BARS CAN BE FITTED ACROSS THE DOOR OPENING
- A 5-SIDED FULL HEIGHT RE-USABLE LINER CAN BE FITTED INSIDE THE FlexiBin 3S TO CONTAIN LEAKAGE. LINER ATTACHED TO TOP LASHING RINGS. WITHOUT A LINER THE FlexiBin 3S CAN ACCOMMODATE 8 300 LITERS



FlexiBin 3S MAKES NO CONTACT WITH CONTAINER SIDE WALLS
EVEN UNDER DYNAMIC LOAD CONDITIONS

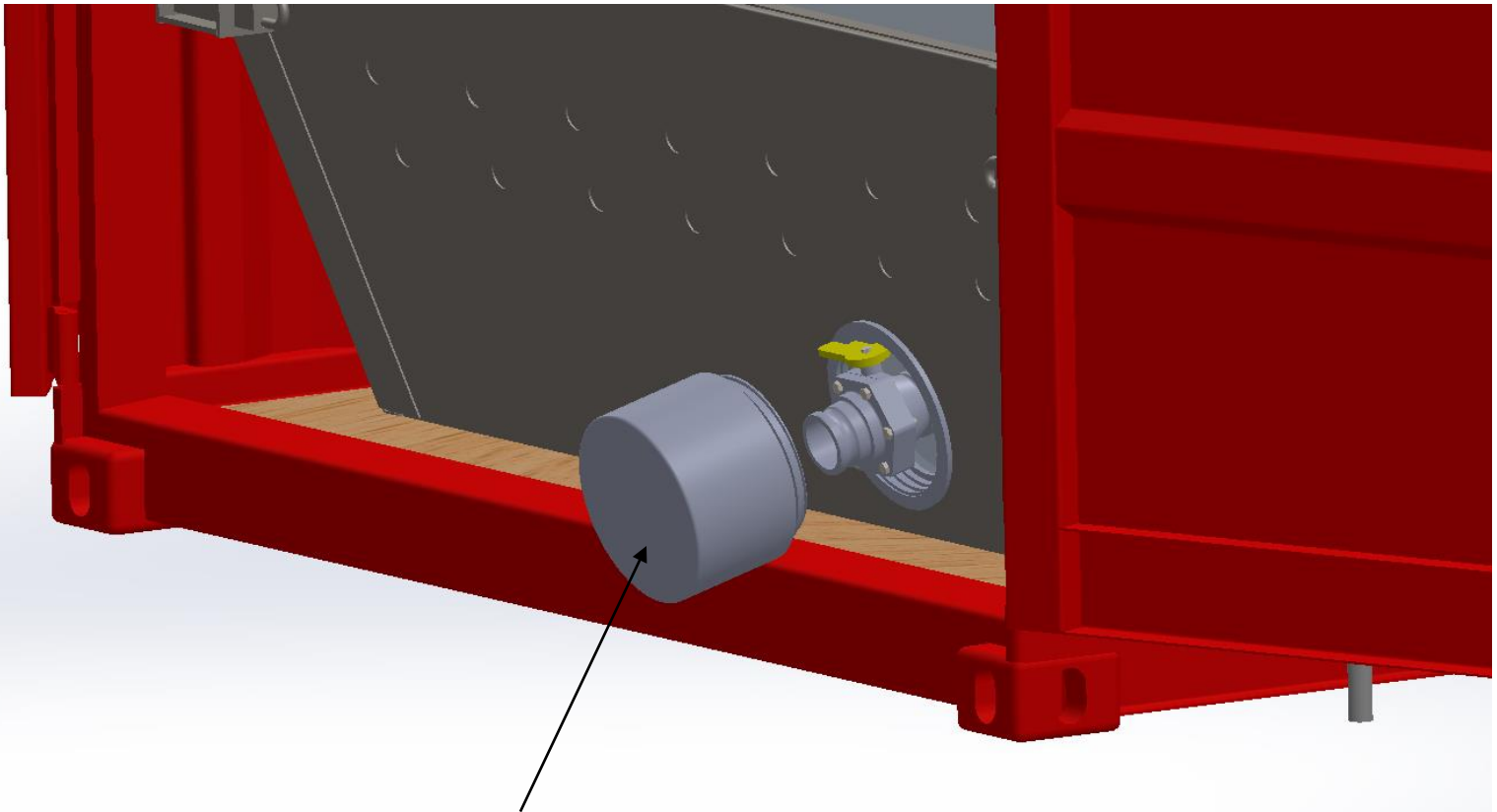
PHYSICALLY REMOVES FORCE FROM SIDE WALLS AS OPPOSED TO REINFORCING SIDE WALLS

COMPREHENSIVE FEA ANALYSIS AND PHYSICAL TEST REPORT AVAILABLE COVERING A WIDE RANGE OF OPERATING CONDITIONS
CLEARLY INDICATE THE HUGE ADVANTAGES OF USING THE FlexiBin S3 AND FLEXITANK/CONTAINER SYSTEM



STATIC FORCE REMOVED FROM CONTAINER SIDE WALL BY THE FlexiBin S3. ACTUAL FORCE MAY DIFFER BY TANK TYPE AND DESIGN.
FIGURES REPRESENT A TYPICAL 24 000 LITER LOAD

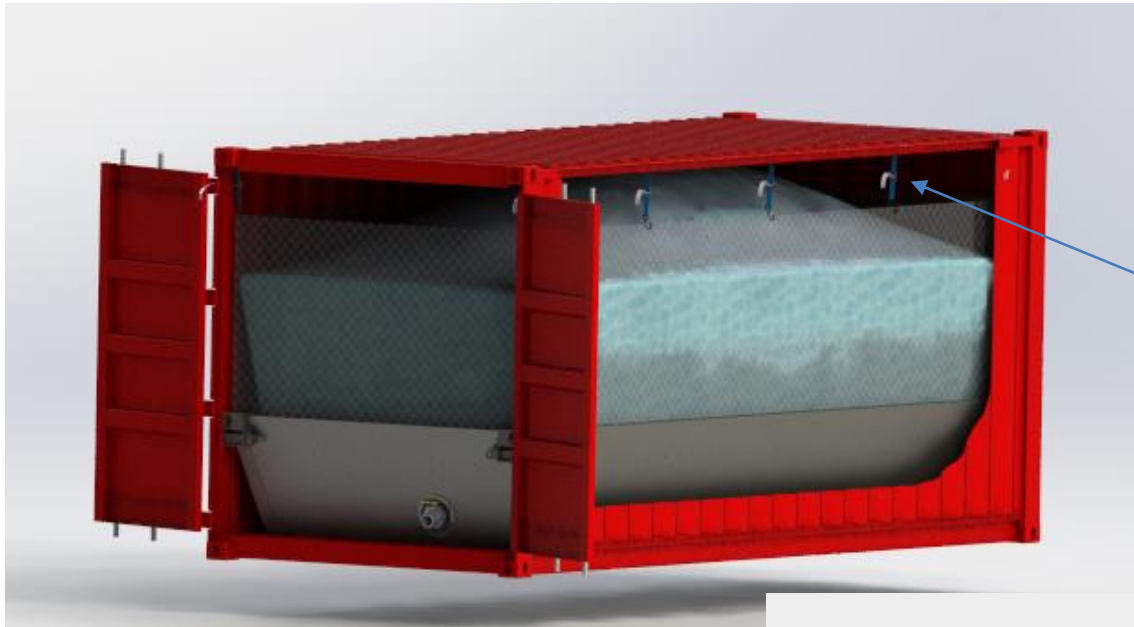
SUBSTANTIALLY IMPROVES FLEXITANK SAFETY AND RELIABILITY



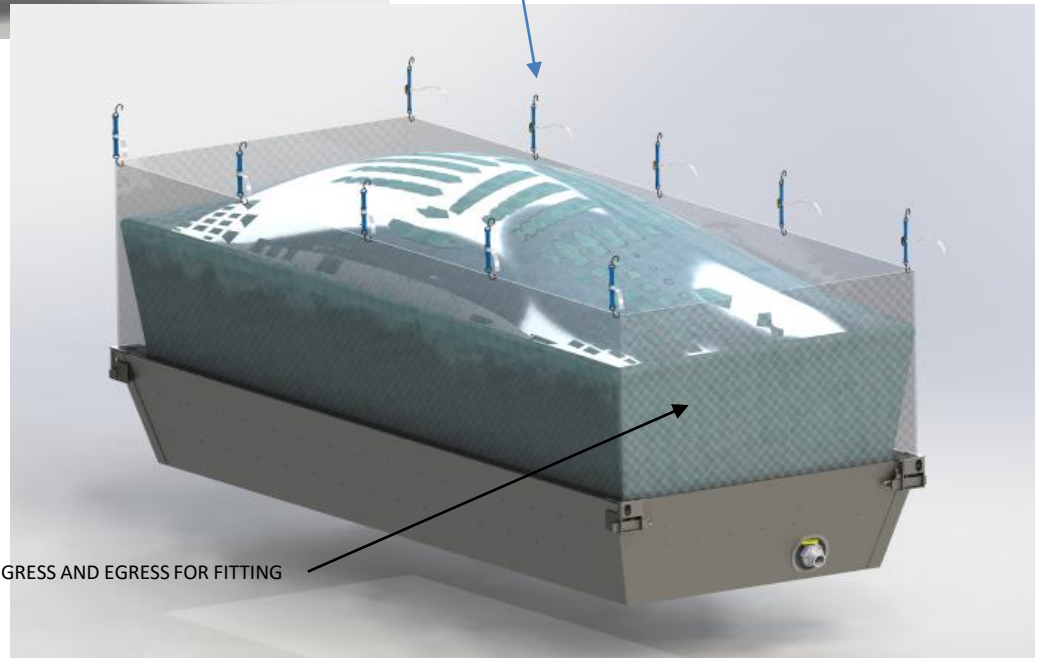
OPTIONAL SEALED VALVE CAP FITTED

FlexiBin 3S CAN ALSO BE USED WITH A REUSABLE 5-SIDED LIQUID-TIGHT LINER ACTING AS A SECONDARY CONTAINMENT SYSTEM. LINER FITTED INSIDE FlexiBin 3S AND SUPPORTED FROM CONTAINER TOP SIDE RAIL LASHING RINGS

OPTIONAL LINER FITTED WITH FlexiBin 3S TO INCREASE SECONDARY CONTAINMENT CAPACITY

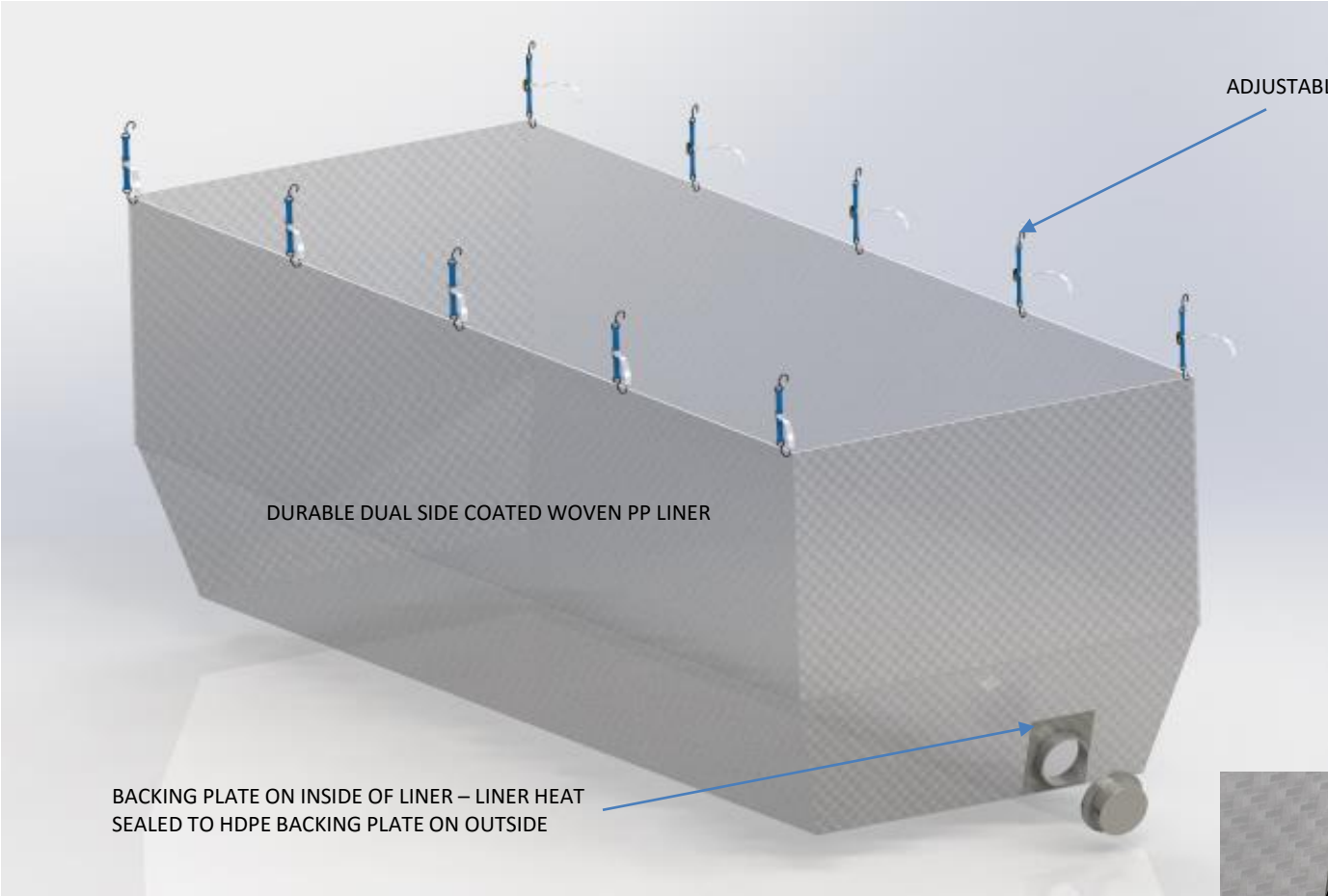


ADJUSTABLE SUPPORT STRAPS ATTACH TO TOP LASHING RINGS



THIS END STRAPPED LAST TO FACILITATE INGRESS AND EGRESS FOR FITTING

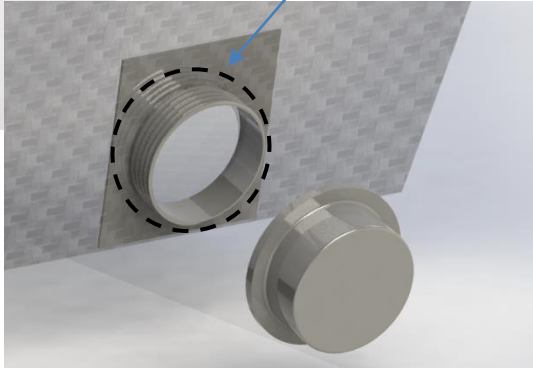
RE-USABLE LINER WITH INTEGRAL BACKING PLATE AND SUPPORT STRAPS



ADJUSTABLE SUPPORT STRAPS

DURABLE DUAL SIDE COATED WOVEN PP LINER

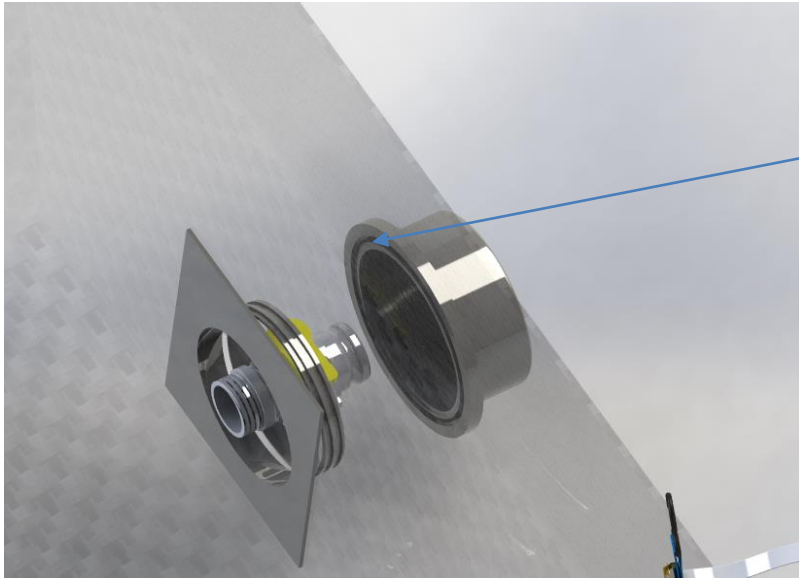
BACKING PLATE ON INSIDE OF LINER – LINER HEAT SEALED TO HDPE BACKING PLATE ON OUTSIDE



LINER HEAT SEALED TO BACKING PLATE

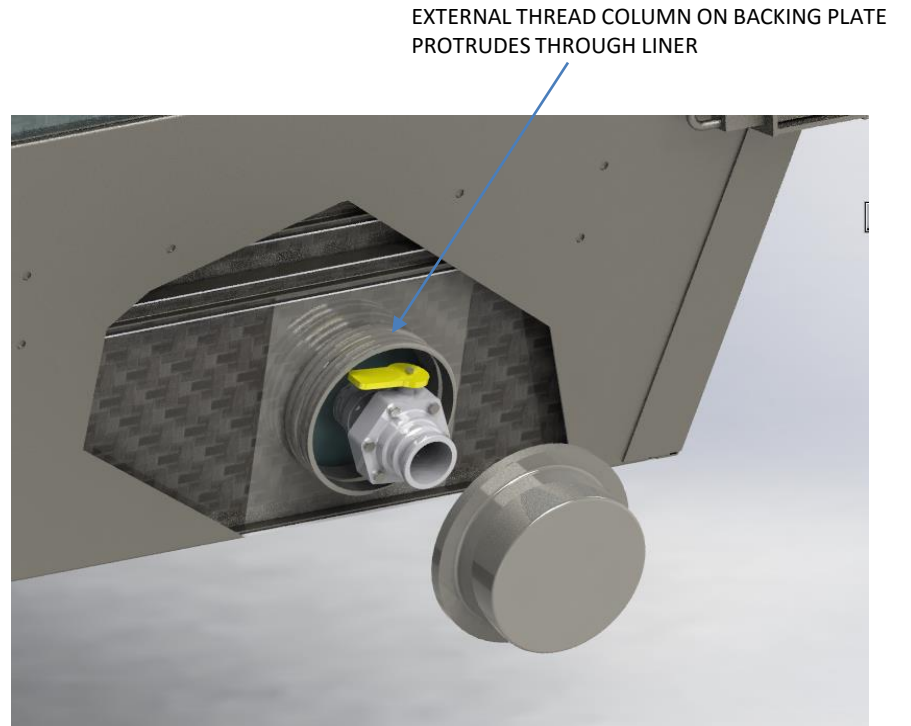
DETAIL OF BACKING PLATE AND SEALING CAP

ANY LEAK IS FULLY CONTAINED BY LINER AND LINER VALVE HOUSING



O-RING SEAL ON CAP

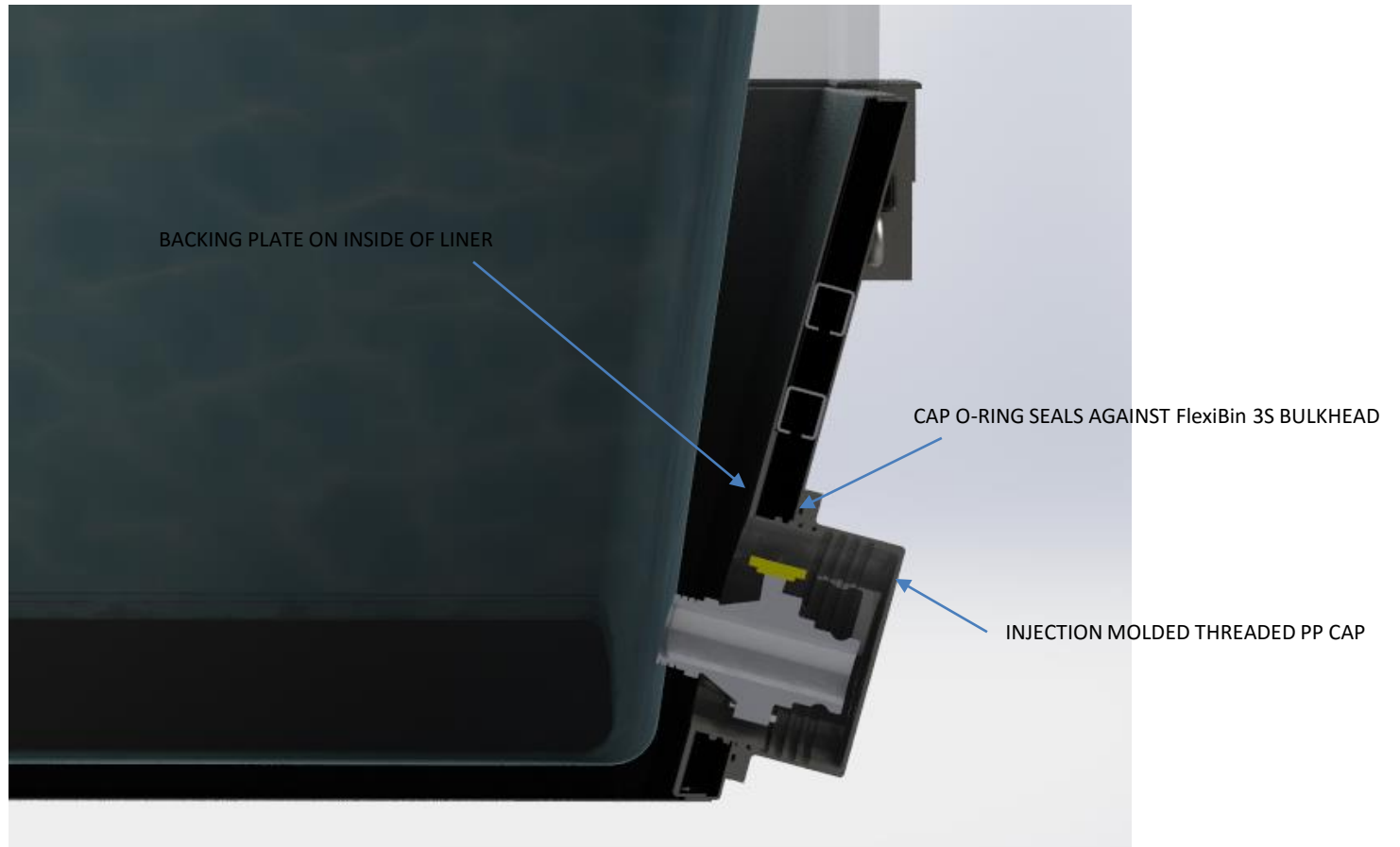
SEALING CAP AND O-RING SEAL AGAINST OUTER SURFACE OF BULKHEAD



EXTERNAL THREAD COLUMN ON BACKING PLATE PROTRUDES THROUGH LINER

CUTAWAY SHOWING BACKING PLATE AND CAP WITH VALVE IN PLACE

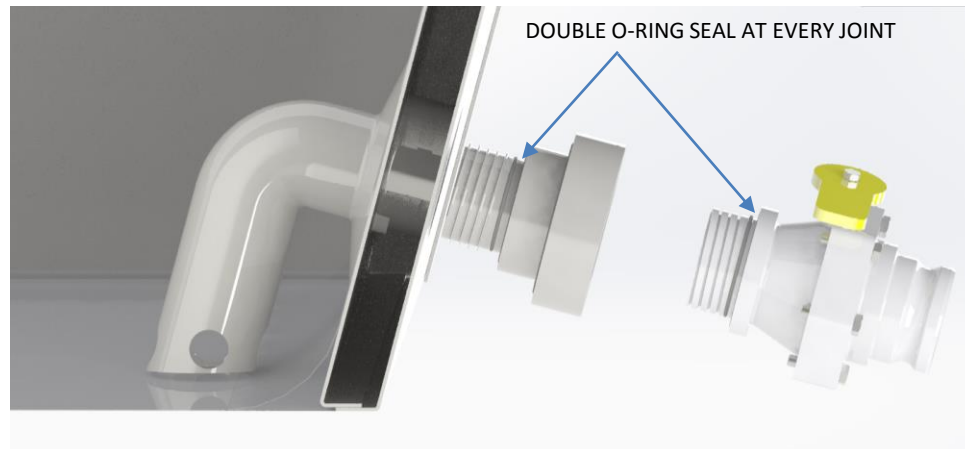
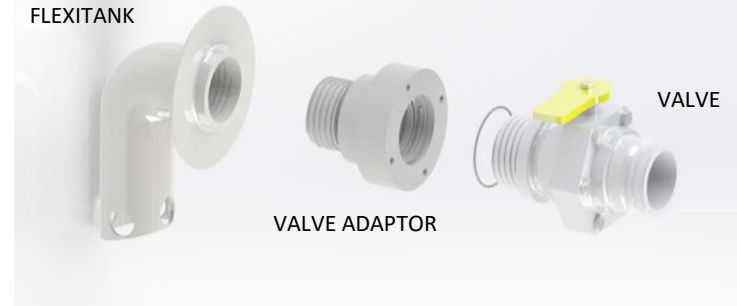
SECTION THROUGH TANK AND LINER IN FlexiBin 3S SHOWING CONTAINMENT OF VALVE



ALTERNATIVE VALVE FIXTURE



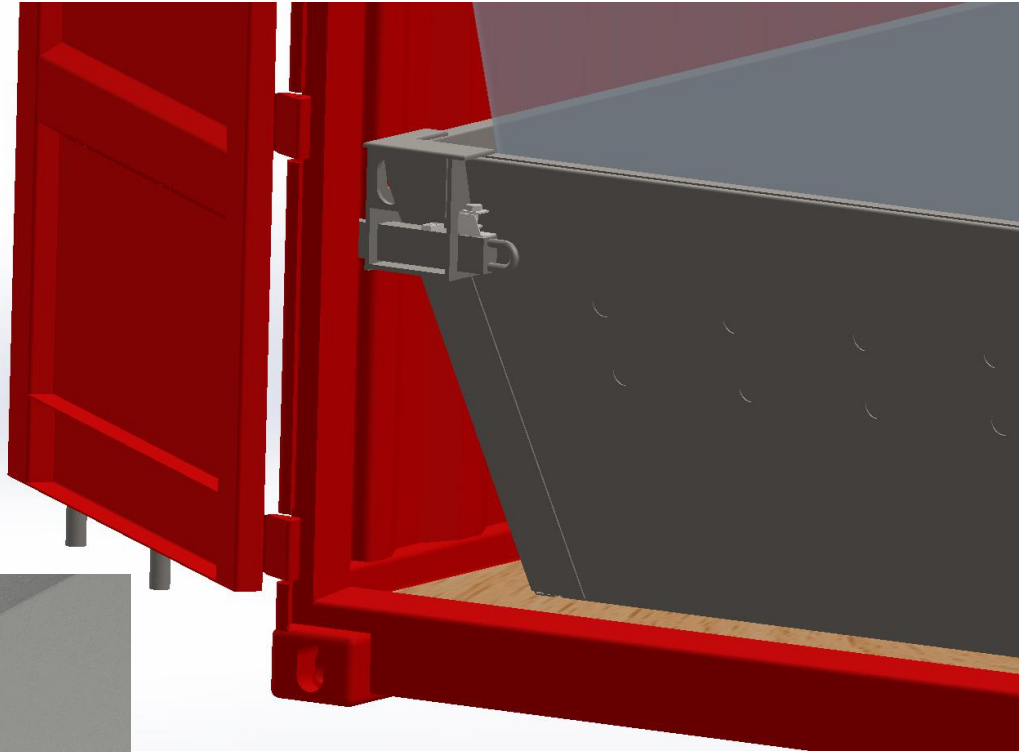
ELBOW WELDED TO FLEXITANK



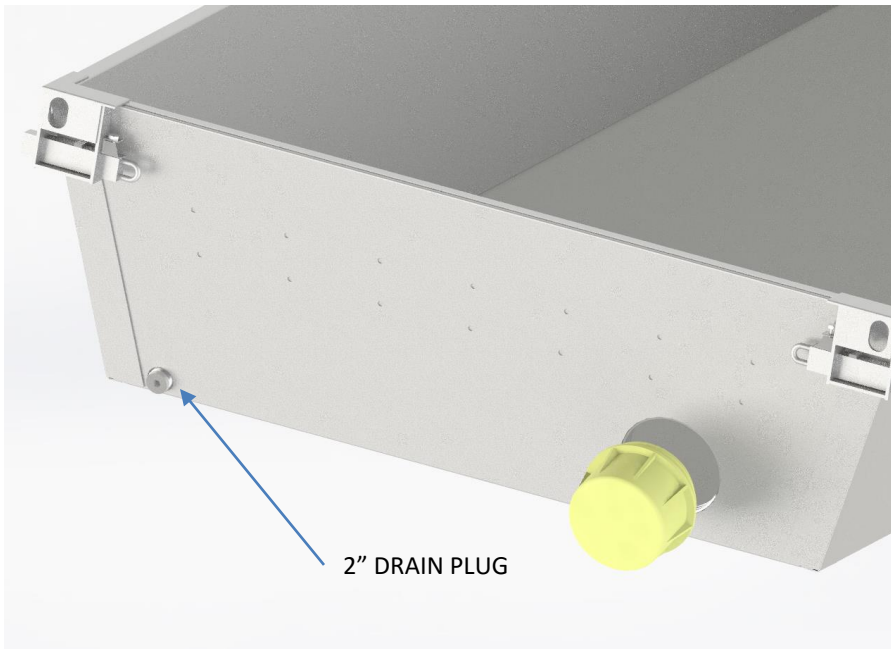
SECTION THROUGH FlexiBin S3 AND TANK

ADAPTOR ASSEMBLY PARTS CAN BE DESIGNED BY US TO SUIT ANY APPLICATION. WE CAN PURPOSE DESIGN PARTS AND RAPID PROTOTYPE USING 3D PRINTING.

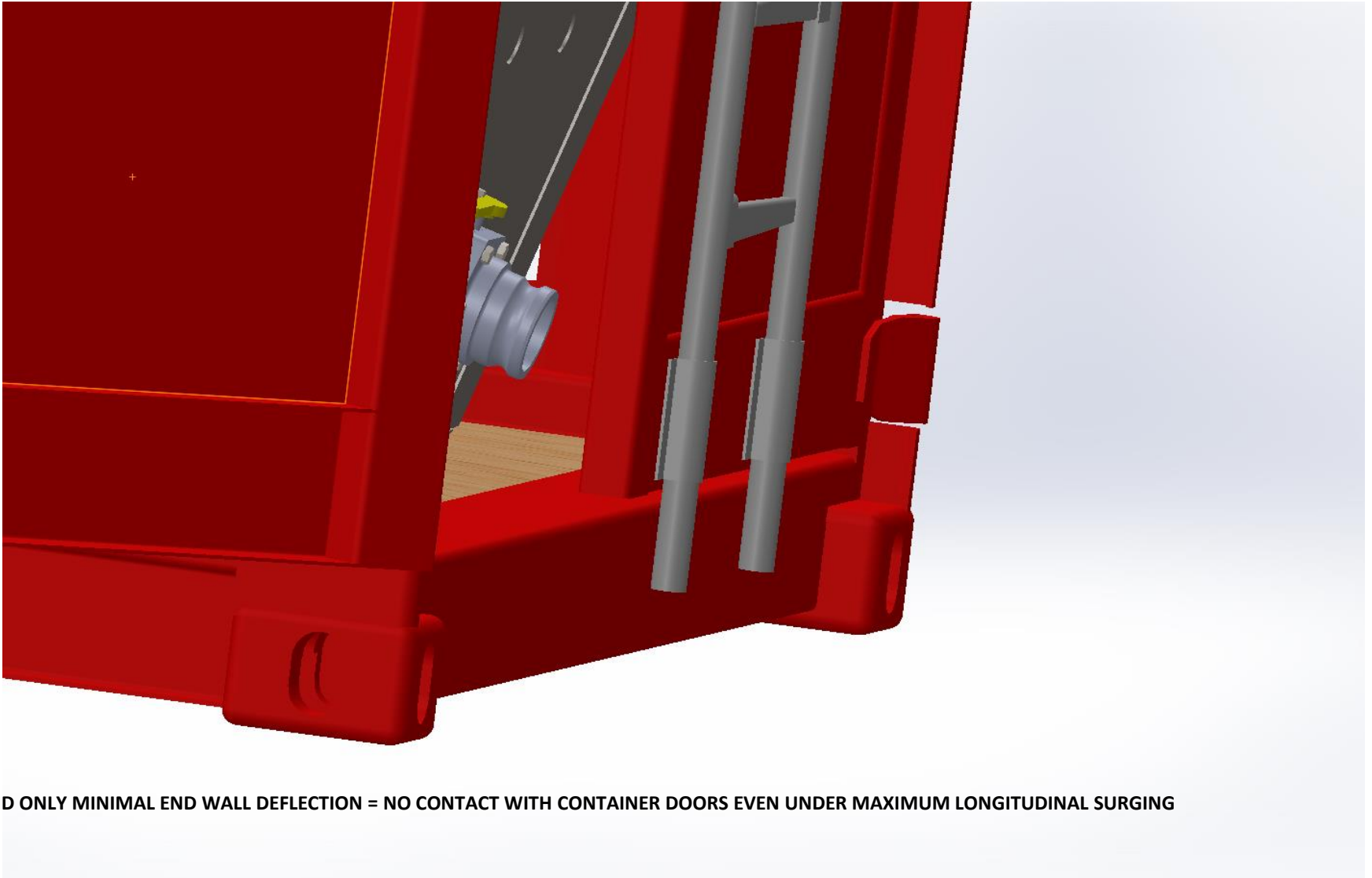
FlexiBin 3S POSITIONED AND STABILIZED IN THE CONTAINER USING PURPOSE BUILT CORNER LOCKS FRONT AND REAR



DRAIN PLUG TO ALLOW DRAINAGE OF FlexiBin S3



AMPLE CLEARANCE BETWEEN VALVE ASSEMBLY AND DOOR



AND ONLY MINIMAL END WALL DEFLECTION = NO CONTACT WITH CONTAINER DOORS EVEN UNDER MAXIMUM LONGITUDINAL SURGING

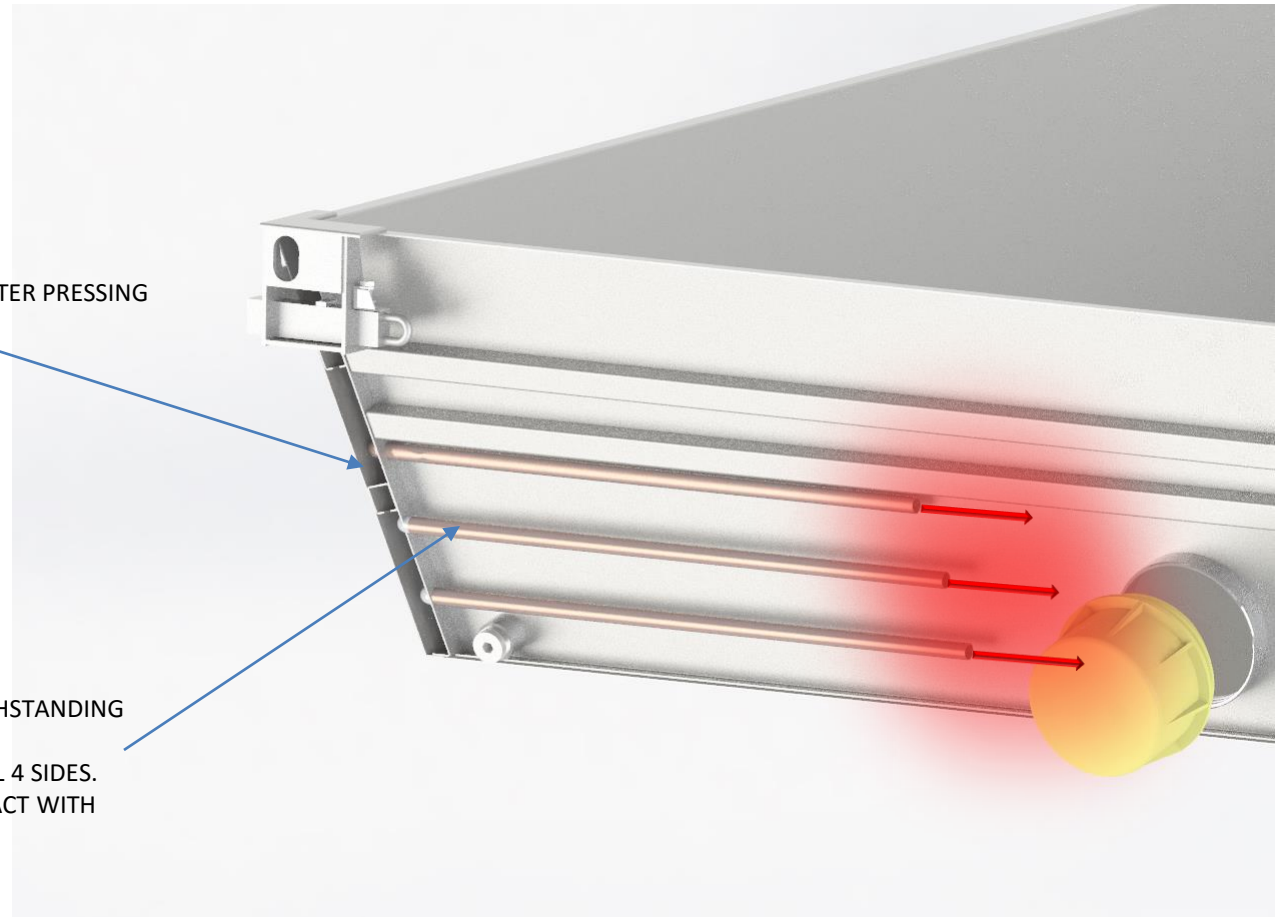
CAVITY WALL DESIGN ALLOWS INCLUSION OF HIGH PRESSURE STEAM TUBES (4 BAR GAUGE WORKING PRESSURE) AND INSULATION:

- ESTIMATED 70% REDUCTION IN HEATING TIME
- ESTIMATED 24% REDUCTION IN STEAM CONSUMPTION

BASED ON HEATING 24 000 LITERS OF WATER THROUGH 10 DEGREES CELSIUS AT AMBIENT OF 20°C

CORNER CLOSING ANGLE AND BULKHEAD OUTER PRESSING REMOVED FOR VISUALIZATION PURPOSES

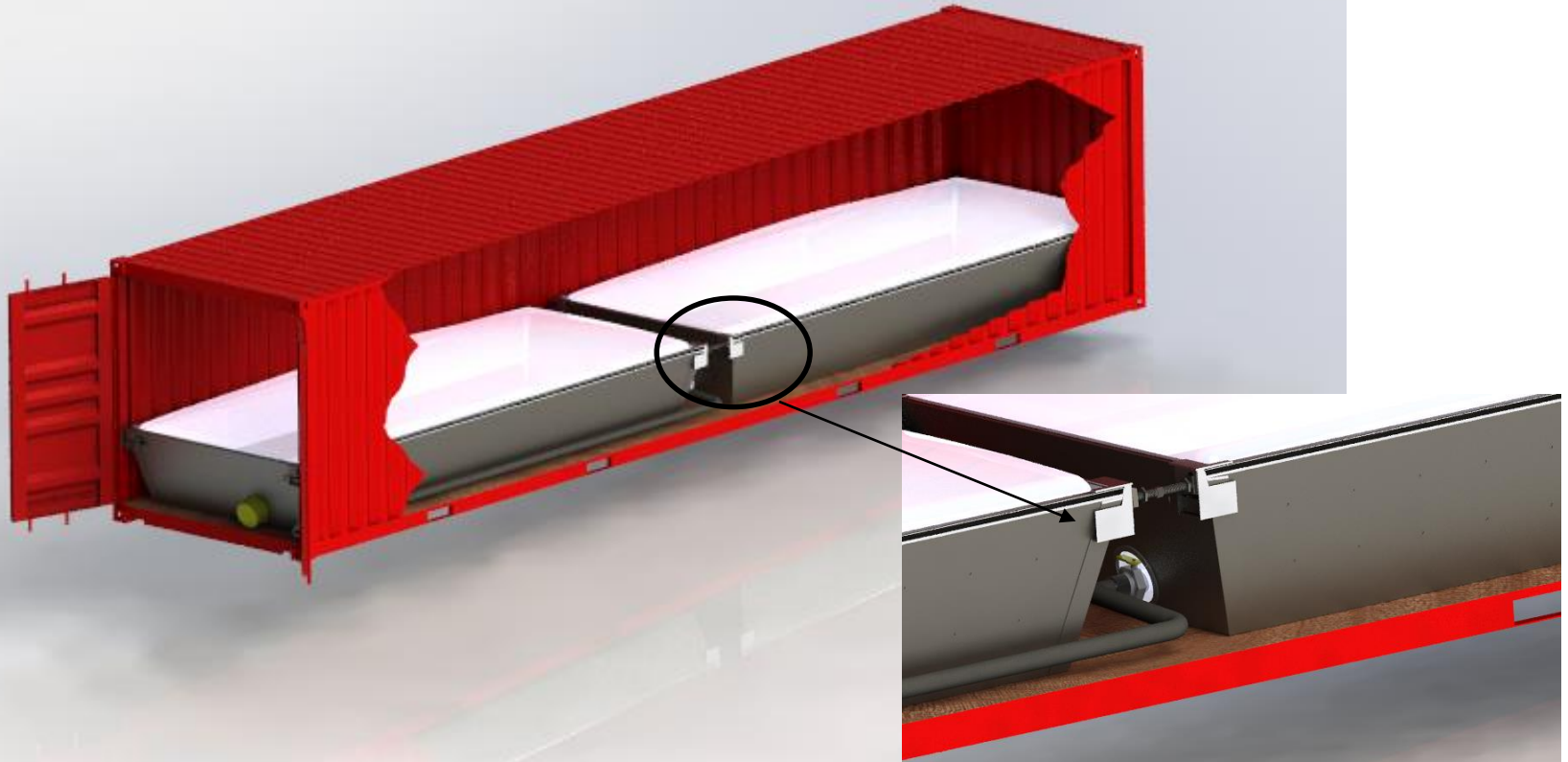
STEEL STEAM TUBES CAPABLE OF WITHSTANDING AN INTERNAL WORKING PRESSURE OF 4 BAR GAUGE CIRCULATE AROUND ALL 4 SIDES. HEATER TUBES MAKE POSITIVE CONTACT WITH INNER SURFACES ONLY

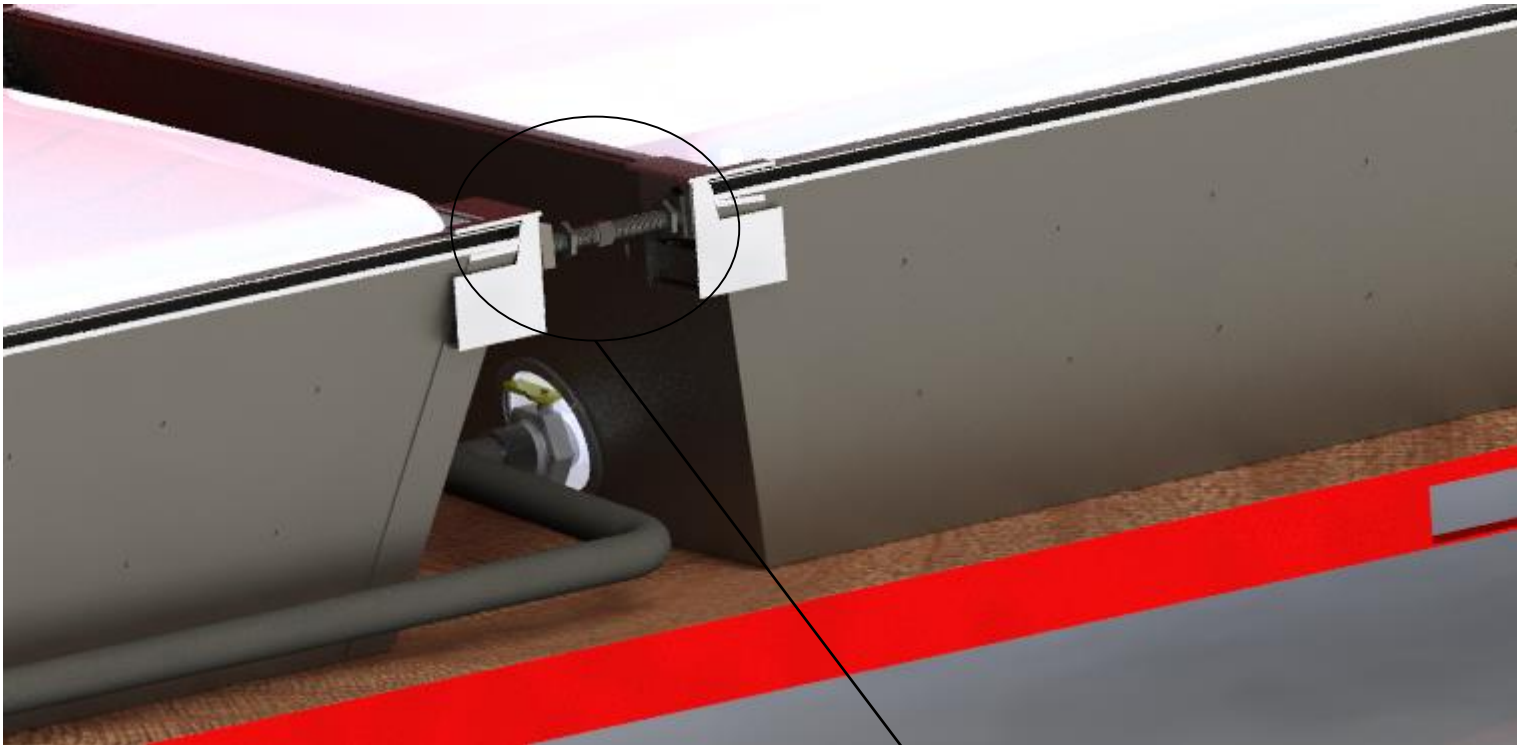


TANDEM CONFIGURATION FOR 40': FlexiBin 3Ss ARE LOCKED TOGETHER CENTRALLY AT CORNER FITTINGS

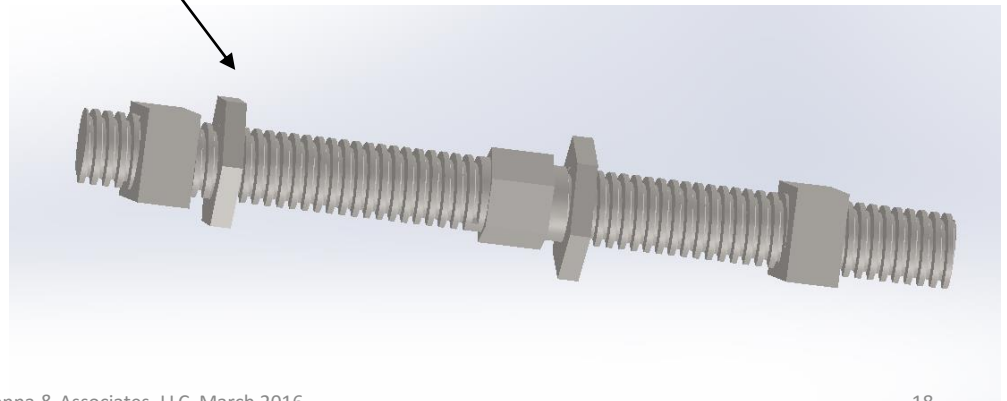
ADVANTAGES:

- TWO DIFFERENT PRODUCTS IF REQUIRED
- LIMITED SURGING USING LOW PROFILE TANKS
- ECONOMIC USE OF 40' CONTAINERS OUT OF AREAS OF HIGH INVENTORY
- EASY FILL/DISCHARGE
- UP TO 13 000 LITERS IN EACH FlexiBin 3S DEPENDING ON APPLICABLE BRIDGE LAWS





40' APPLICATION INTERLOCK MECHANISM



BOTH TANKS CAN BE FILLED AND DISCHARGED FROM THE REAR

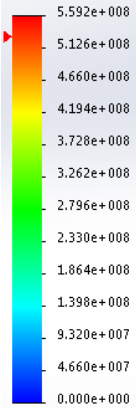


FORWARD TANK FITTED WITH FOOD GRADE HOSE AND VALVE. HOSE CAN BE REUSABLE OR DISPOSABLE

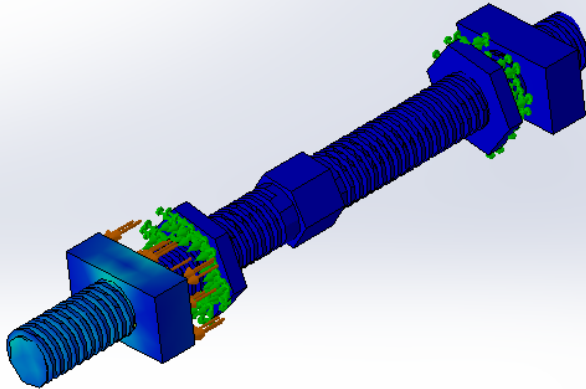
STRESS PLOT OF 40' INTERLOCK MECHANISM AS 2g AXIAL DECELERATION – NO FAILURE

Model name: 40' interlock assy
Study name: Static 1(-Default-)
Plot type: Static nodal stress Stress1

von Mises (N/m²)

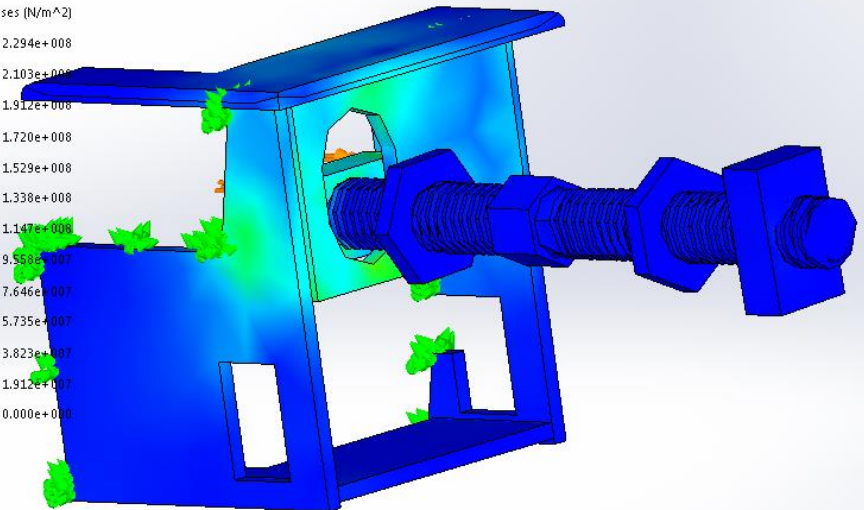
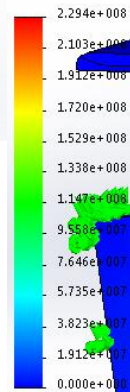


Yield strength: 5.300e+008

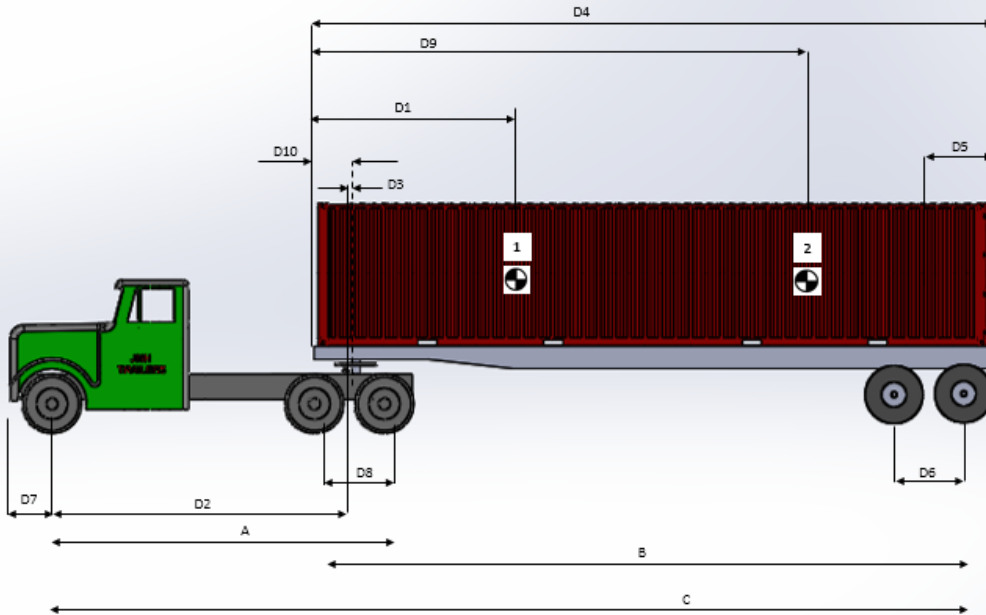


Model name: 40' interlock assy demo
Study name: Static 1(-Default-)
Plot type: Static nodal stress Stress1

von Mises (N/m²)



PAYLOAD CALCULATION SHEET EXAMPLE



Load summary table:

	USA	UK	Australia	S. Africa
Axle group 1	✓	✓	✓	✓
Axle group 2	✓	✓	✓	✓
Axle group 3	✓	✓	✓	✓
Bridge formula A	✓	✓	✓	✓
Bridge formula B	✓	✓	✓	✓
Bridge formula C	✓	✓	✓	✓
Overall GYM	✓	✓	✓	✓
Overall length	✓	✓	✓	✓

Axle masses (k, 5212)		6581	6366			6576	6185
Axle masses (lb, 11481)		15357	14025			14576	13665
		OK	OK			OK	OK
Total chassis payload (kg)	15816						
Tractor GYM (kg)	26576						
Total GYM (kg)	33746	###	lbs	OK			
Percentage GYM on steering axle	15.45 %						
Percentage GYM on driving axle	45.52 %						
Load on 5 th wheel (kg)	5045						
Bridge values		Actual		Allowable		Distance	
	A	45348 lbs		45719 lbs	OK	3.95	■
	B	62892 lbs		67200 lbs	OK	11.52	■
	C	74383 lbs		76956 lbs	OK	14.80	■
Overall length	17.66	m					

Inputs

D1	4000 mm	Truck tare front	4026 kg
D2	3275 mm	Truck tare rear	2415 kg
D3	275 mm	Chassis tare rear	1570 kg
D4	12344 mm	Chassis tare total	2309 kg
D5	1350 mm	Container tare	3680 kg
D6	1245 mm	Flexitank tare	880 kg
Product, SG	1	Product, volume	8200 liters
Product, SG	1	Product, volume	11350 liters
D7	1475 mm	Truck tare	6441 kg
D8	1350 mm		

LOAD VOLUMES IN LITERS WITH SG = 1 (E.G. WINE) THAT CAN BE LEGALLY TRANSPORTED BY USING THE 40' FlexiBin 3S AND CONTAINER COMBINATION

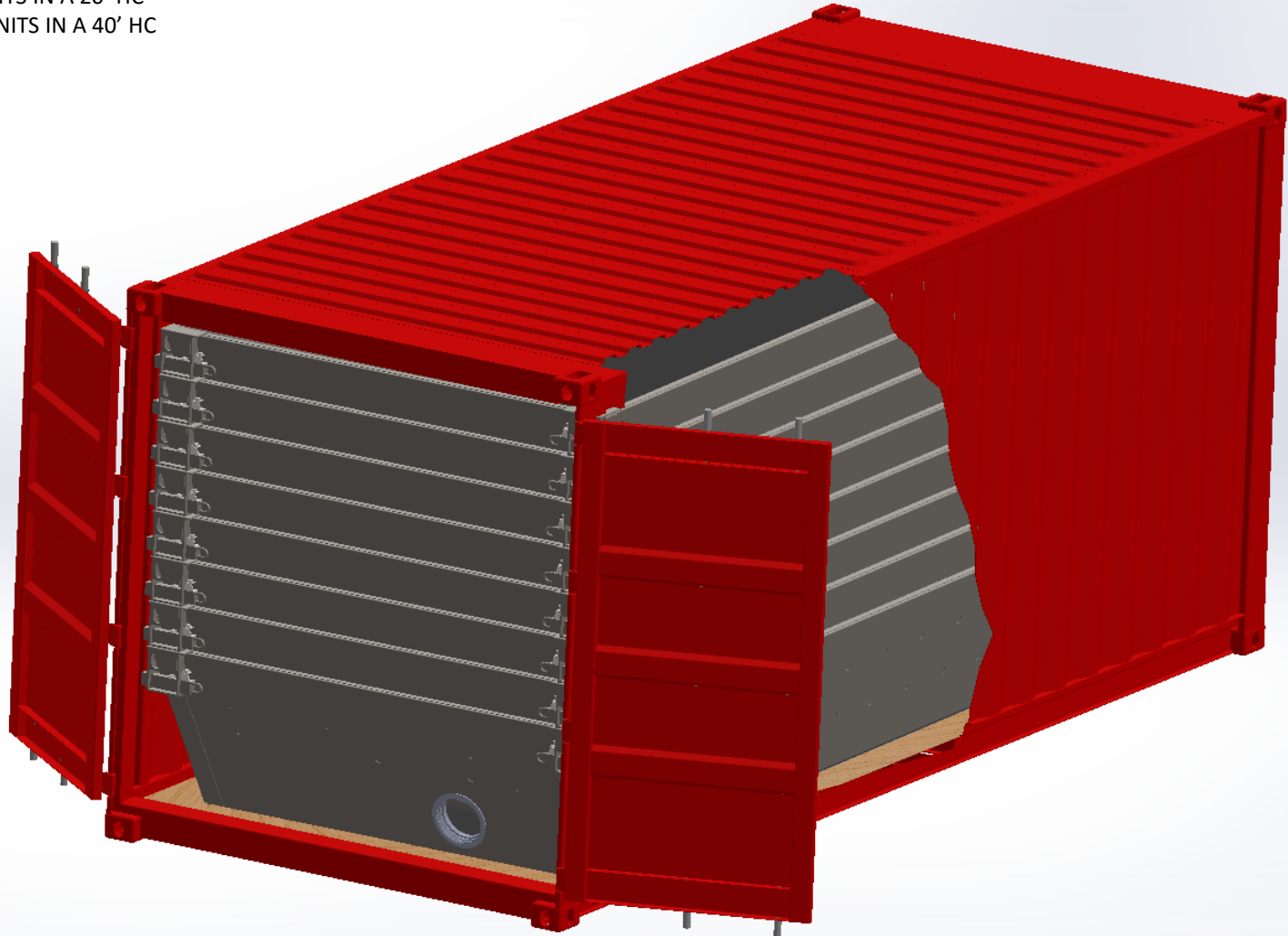
PERFECT SOLUTION TO CAPITALIZE ON 40' CONTAINER TRADE IMBALANCE MARKETS E.G. WINE OUT OF SOUTH AFRICA AND SOUTH AMERICA

	Destination location	
	UK/EU	USA*
Load location		
Australia	21,900	19,550
South Africa	25,000	19,550
Argentina	24,000	19,550
Chile	24,000	19,550

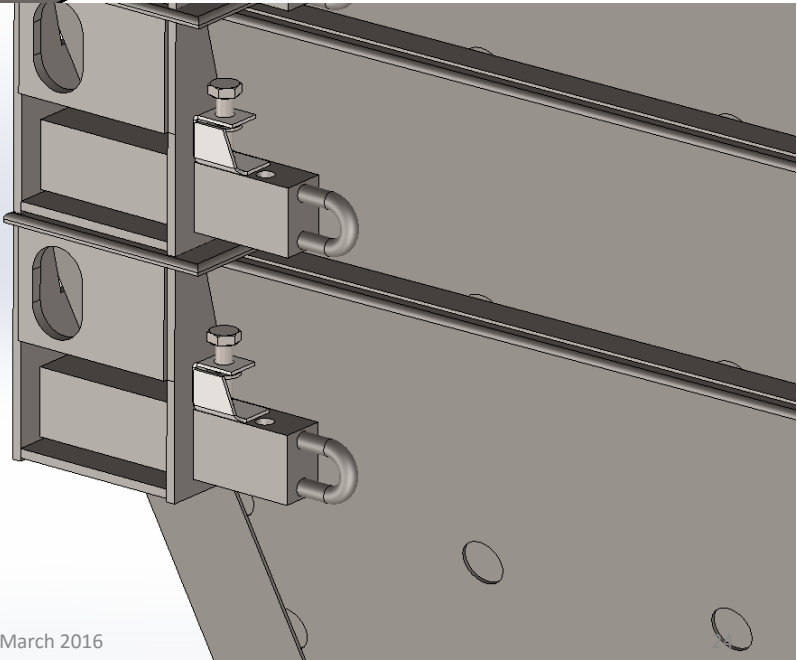
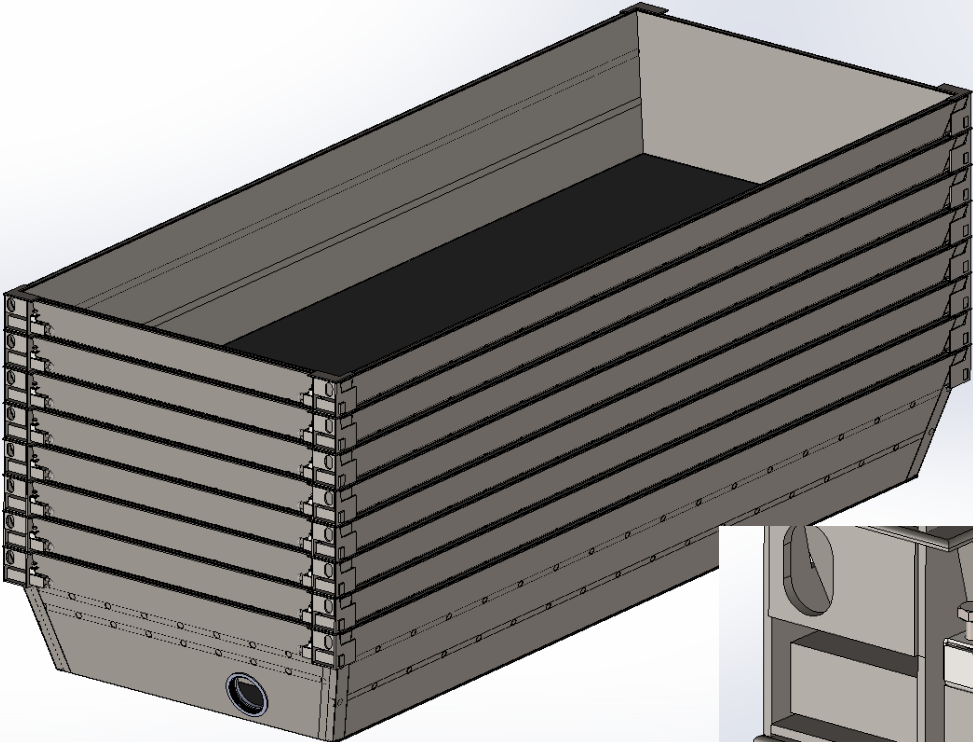
*CAN REACH 20 000 LITERS BY POSITIONING FRONT FlexiBin 3S FURTHER REARWARDS

EXCELLENT RETURN ECONOMICS

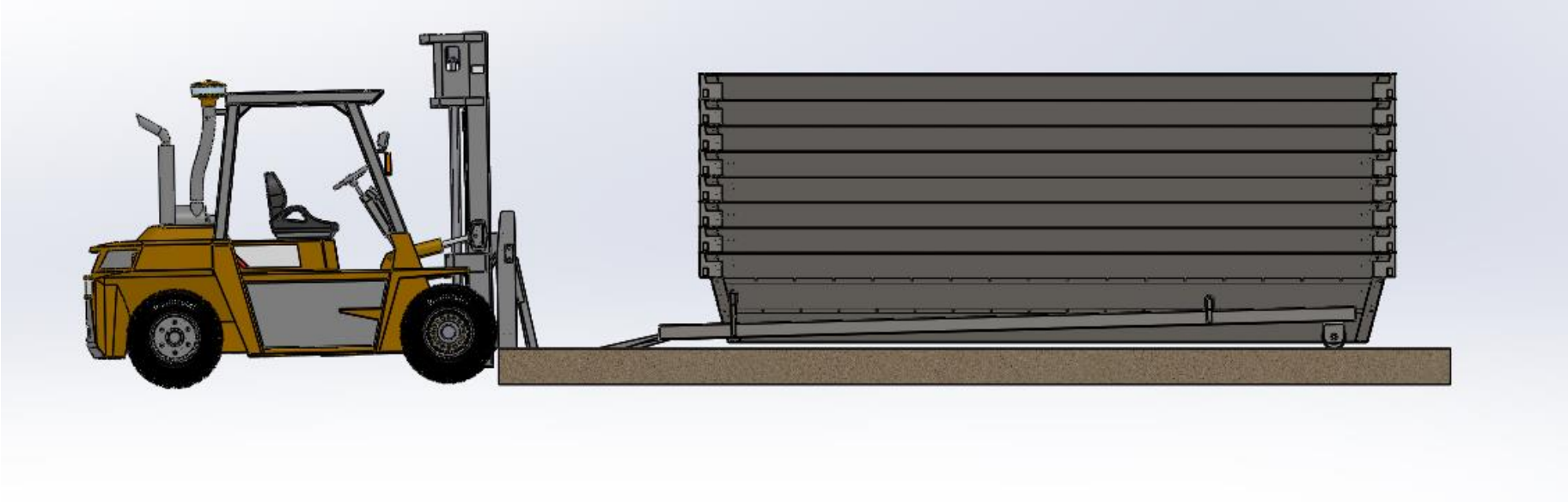
8 UNITS IN A STANDARD 20'
9 UNITS IN A 20' HC
18 UNITS IN A 40' HC



DESIGN ALLOWS FOR EASY STACKING AND SEPARATION – NO JAMMING

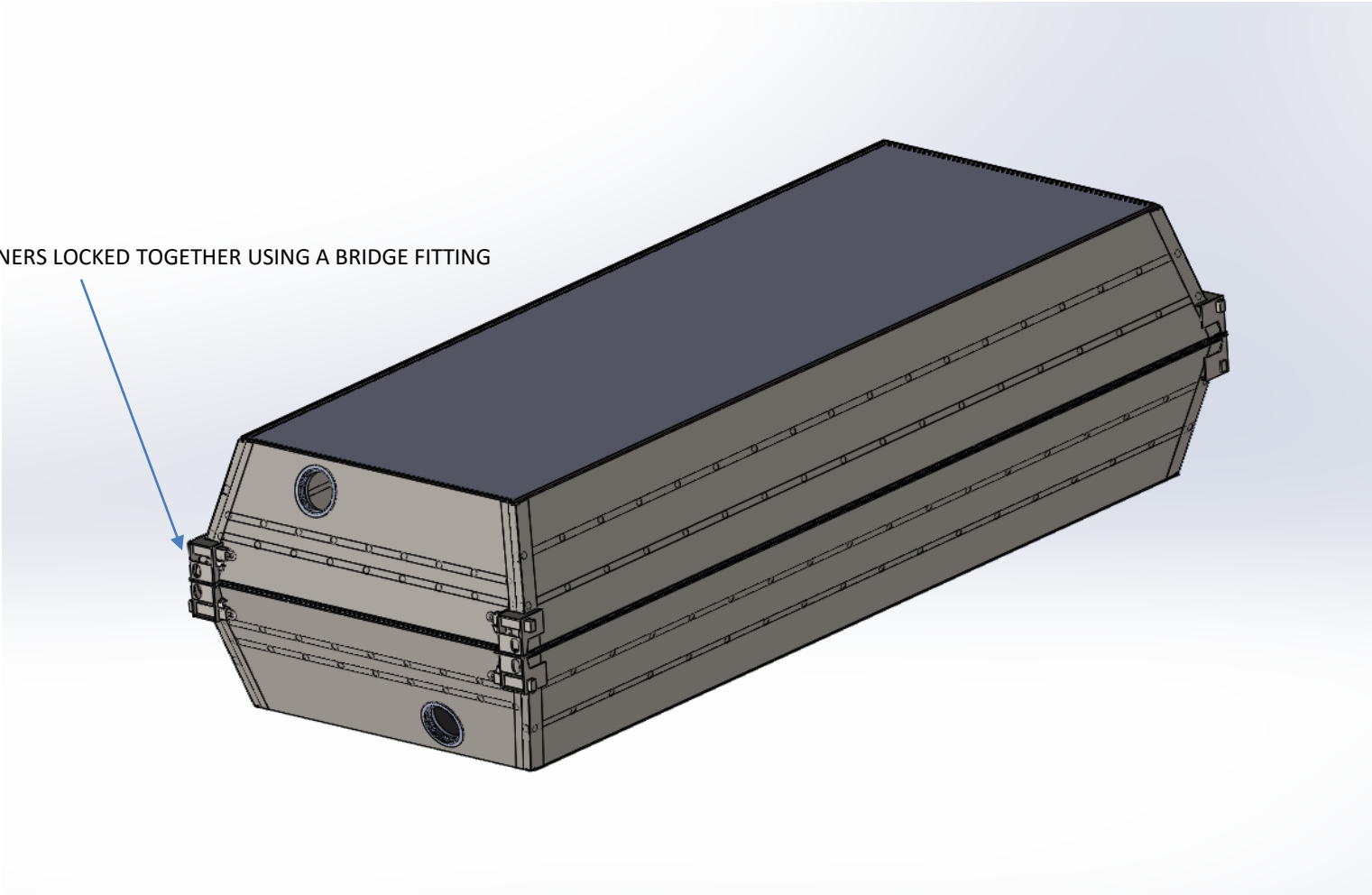


SIMPLE LIFTING/HANDLING FRAME FOR CONTAINER LOADING AND UNLOADING OF NESTED STACK

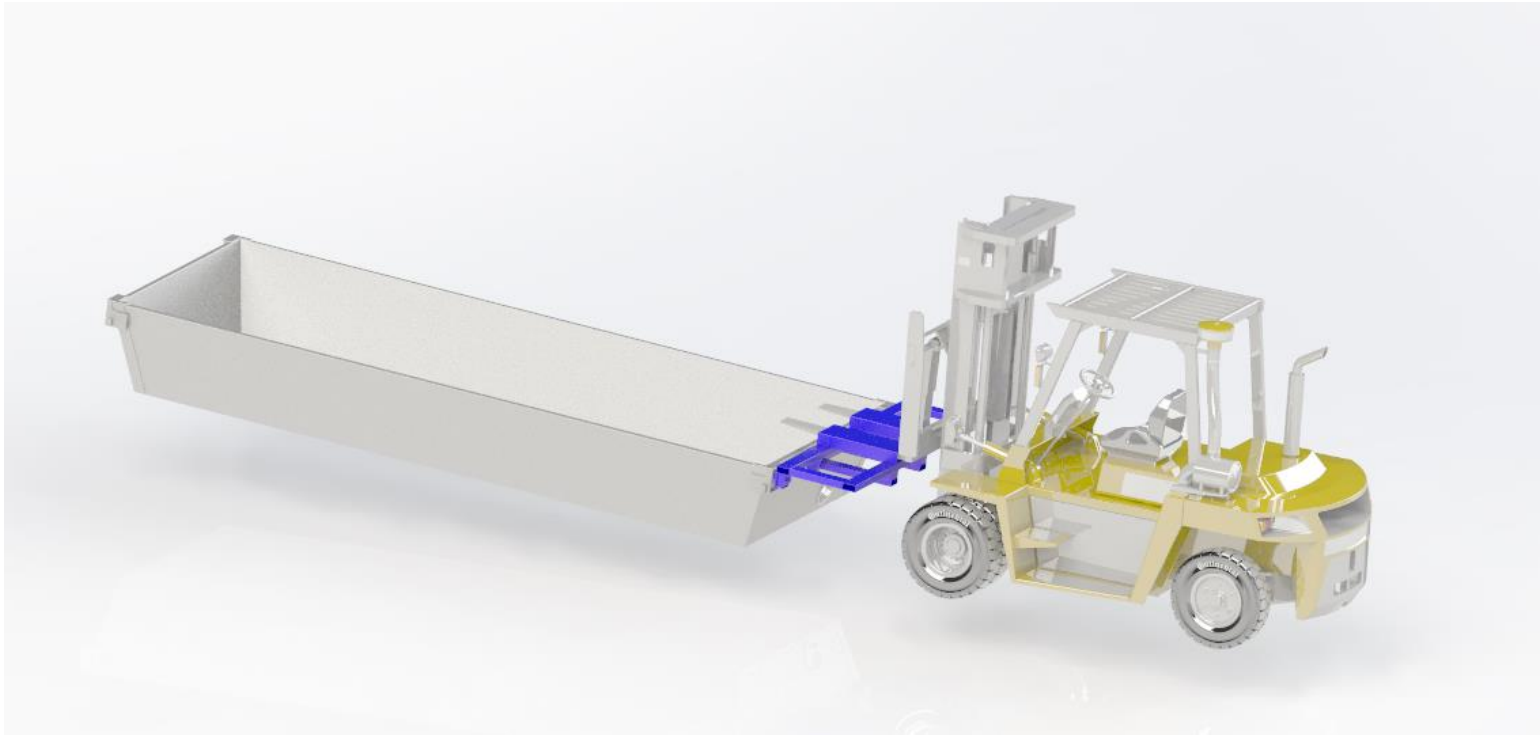


CAN BE USED IN NOVEL WAYS TO CONTAIN UP TO 16 600 LITERS OF PRODUCT UNDER PRESSURE

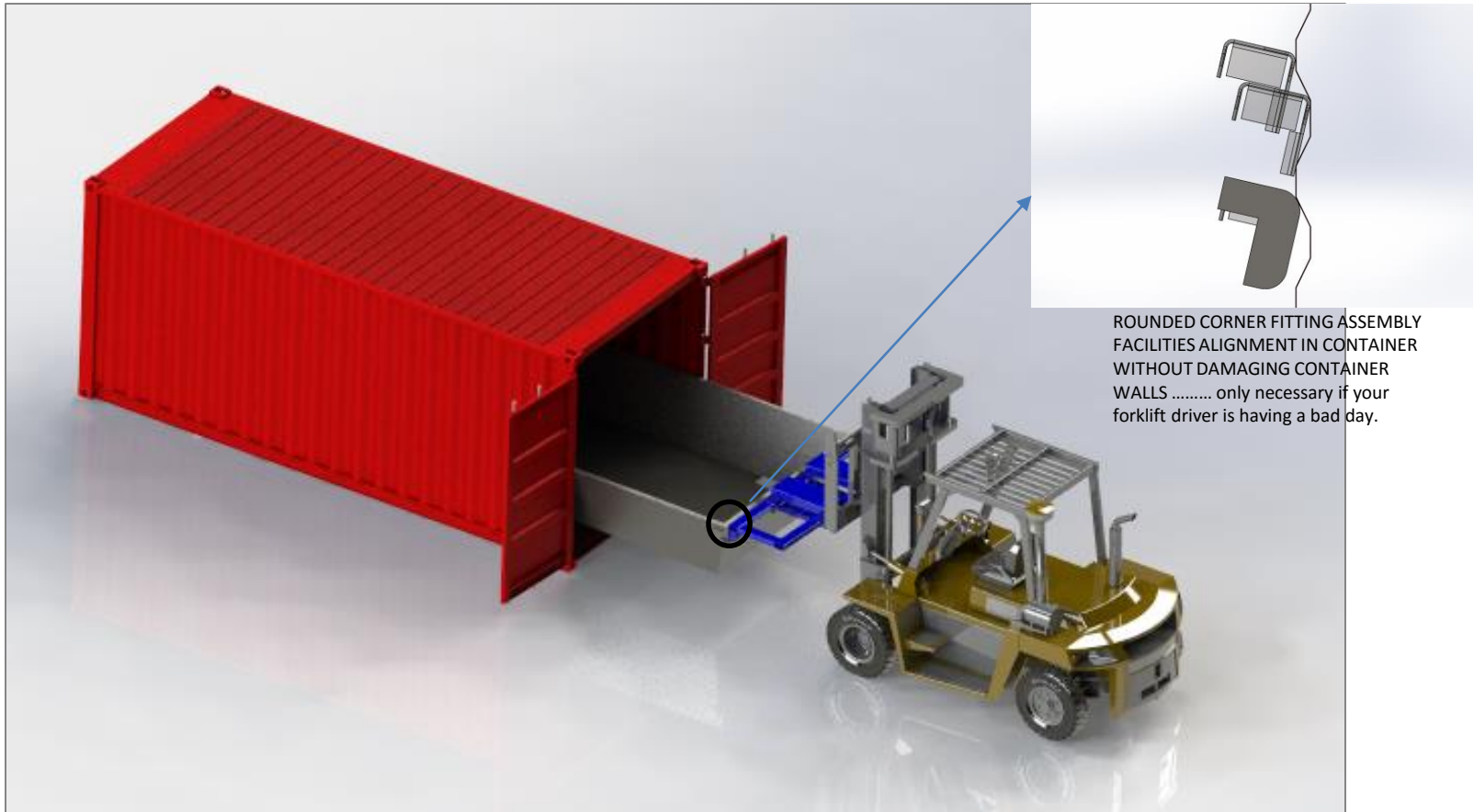
CORNERS LOCKED TOGETHER USING A BRIDGE FITTING



USING PURPOSE-BUILT LIFTING FRAME FlexiBin 3S CAN BE EASILY HANDLED, STACKED OR POSITIONED



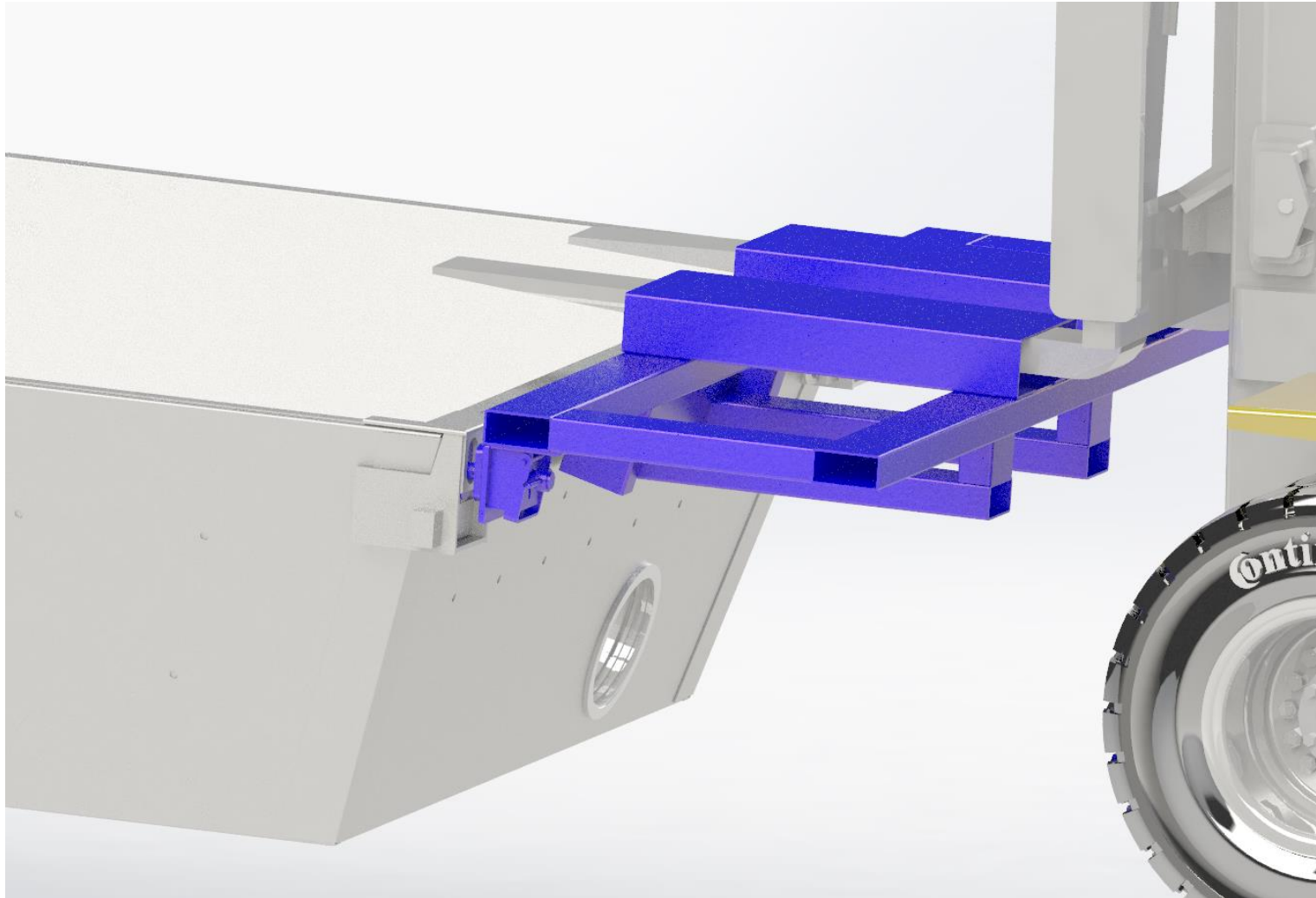
FlexiBin 3S CAN BE PRE-FITTED WITH FLEXITANK AND EASILY MOVED AND POSITIONED INSIDE A CONTAINER USING SUPPLIED LIFTING FRAME AND A LIGHTWEIGHT DEMOUNTABLE GUIDE FRAME



OPERATING EFFICIENCIES CAN BE REALIZED BY:

- BATCH FITTING FlexiBin 3S WITH FLEXITANKS PRIOR TO ARRIVAL OF CONTAINERS
- FITTING FlexiBin 3S INTO CONTAINERS WITHOUT HAVING TO REMOVE CONTAINERS FROM CHASSIS. THIS SAVES ON ORIGIN LOCATION LOLO COSTS
- FlexiBin 3S CAN BE REMOVED AT DISCHARGE LOCATIONS WITHOUT HAVING TO PAY FOR LOLO

PURPOSE BUILT LIGHTWEIGHT LIFTING FRAME TO HANDLE FlexiBin 3S FITS ALL FORKLIFTS SAFE, STRONG AND EASY TO USE



KEY ADVANTAGES

- INCREASED PAYLOADS UP TO 27 000 LITERS
- IMPROVED TRIP ECONOMICS FOR OPERATORS
- NO CONTAINER DAMAGE
- NO ADVERSE AFFECT ON CONTAINER STABILITY
- LOWER CENTER OF GRAVITY
- REDUCED LIQUID SLOSHING
- SECONDARY CONTAINMENT SYSTEM
- IMPROVED ENVIRONMENTAL IMPACT – LOWER PE TO PRODUCT RATIO AND LOWER RISK OF SPILLAGE
- EASY TO FIT (CAN BE PRE-FITTED WITH FLEXITANK PRIOR TO HAVING THE CONTAINERS)
- PREVENTS DAMAGE TO FLEXITANK FROM CONTAINER FLOOR DEBRIS AND CONTAINER LASHING RINGS

KEY ADVANTAGES

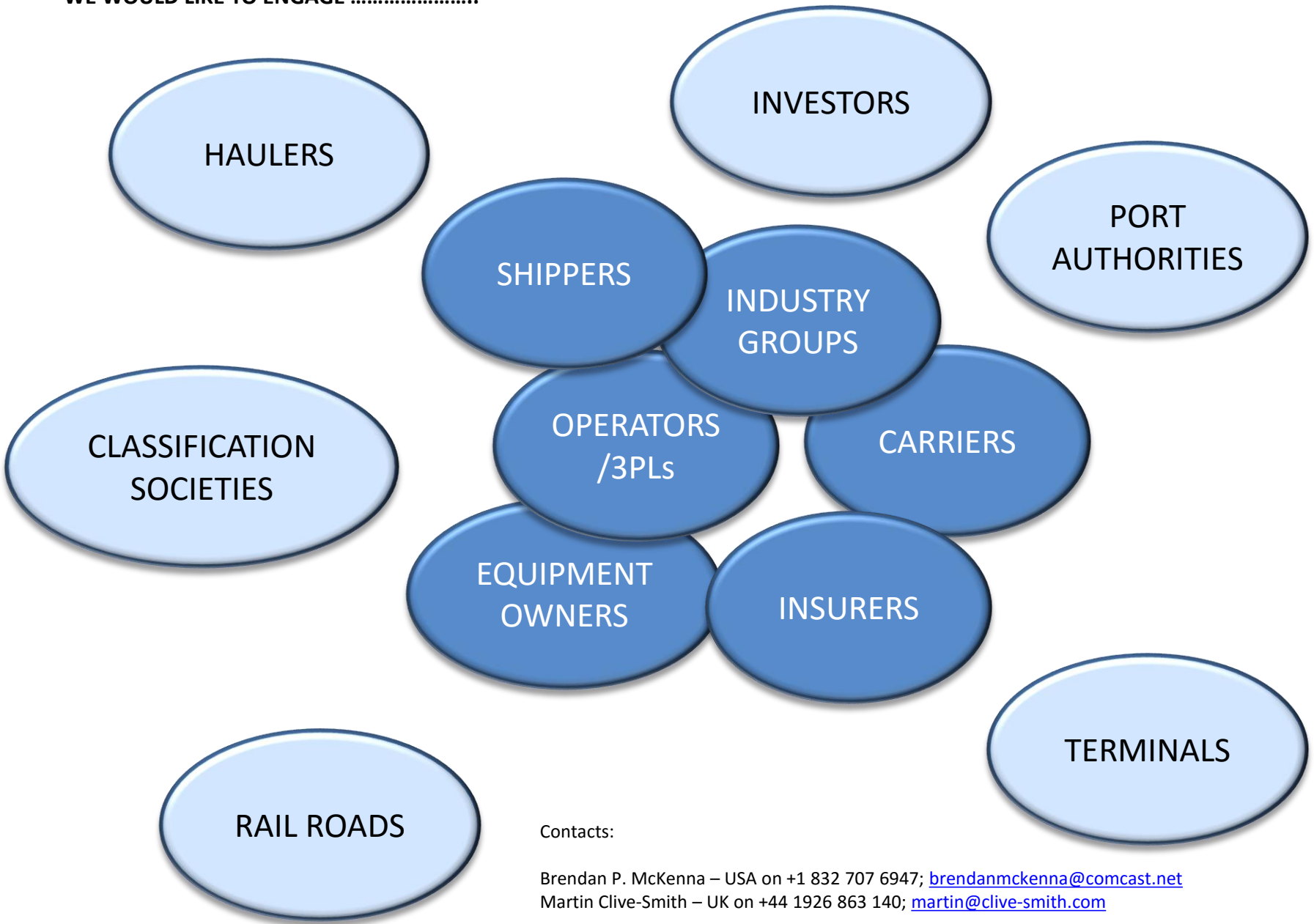
- EASY TO HANDLE
- VERSATILE, STRONG AND LIGHT WEIGHT DESIGN
- UNIT NUMBERING FOR INVENTORY TRACKING
- 40' CONTAINER UTILIZATION OPPORTUNITIES
- REEFER CONFIGURATION COMING SOON
- REDUCES LIQUID SURGE
- BETTER FOR CARRIERS AND EQUIPMENT OWNERS
- BETTER FOR INSURANCE COMPANIES
- IMPROVED PUBLIC SAFETY AND SUPPORTS CORPORATE SOCIAL RESPONSIBILITY PROGRAMS
- COST EFFECTIVE ALTERNATIVE TO 26 000 LITER TANK CONTAINERS
- OPPORTUNITY TO REDUCE SHIPPING COSTS WHILE IMPROVING SAFETY

FINANCIAL SUMMARY

- DIRECT PURCHASE OR LEASE OPTION
- POTENTIAL NET SAVINGS UPWARDS OF \$110 PER TRIP*
- DIRECT PURCHASE PAYBACK BETWEEN 2.5 AND 3 YEARS
- HIGH IRR VALUES

*DEPENDENT UPON EFFICIENT USE OF FlexiBin 3S OVER TYPICAL TRANSPORT CYCLE

WE WOULD LIKE TO ENGAGE



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