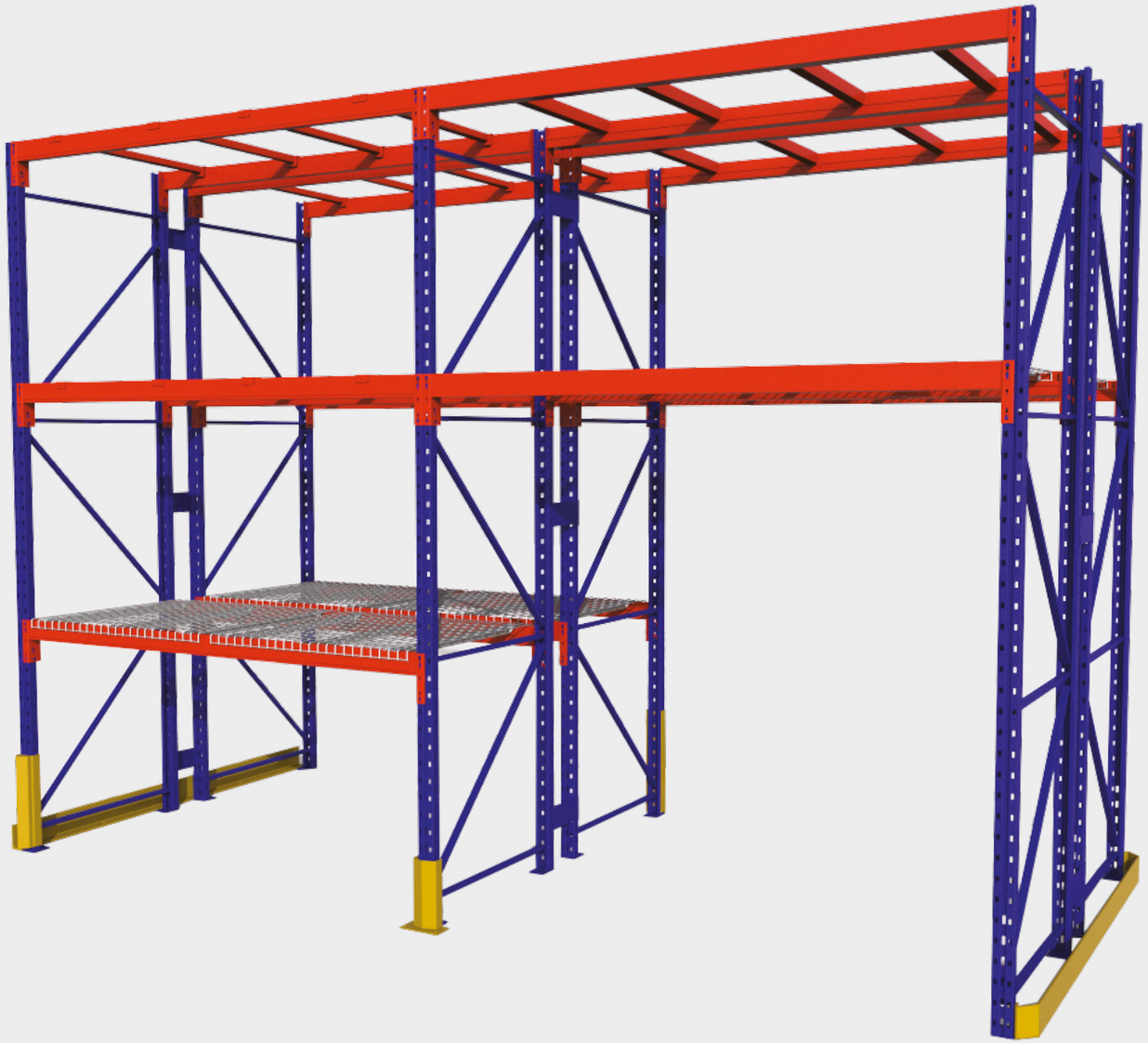
ETALEX

CONVENTIONAL INSTALLATION MANUAL



CONVENTIONAL

Our cold roll rack system, also called roll forming, is widely used. Conventional storage offers a great level of flexibility. It's an easy, quick and safe solution that is often used to store various types of products. The layout of our slats and beams has been specially designed to be adapted and to meet your needs. The pallets can be accessed at any time, without needing to move the merchandise..

STRUCTURAL

Our structural pallet racking remains the best solution for highly frequented locations that present a risk of damage or high surges. Our robust and ultra-resistant construction is perfectly adapted to handling heavy loads and forklift traffic. Crafted with conventional parts, our hybrid shelving offers you a storage system that can finally meet your needs.

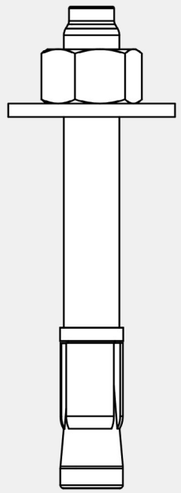
RACKING PUSH BACK

Push-back pallet racking is an ideal choice for reducing the time it takes to load and unload stock. Its main advantage: the pallets can be accessed quickly at all times. When loading, the pallet is pushed towards the bottom with those already in place on the runners. The opposite occurs when unloading: the pallets slide to the side accessible to the forklift trucks. This system allows you to manage your inventory on a last in-first out basis.

RACKING PALLETFLOW

Pallet flow pallet racking automatically manages your inventory on a first in-first out (FIFO) basis. This is the perfect solution for managing stocks with high turnover rates, such as perishable products. The roller belt makes it possible to place a high number of pallets in depth.

COMPONENTS

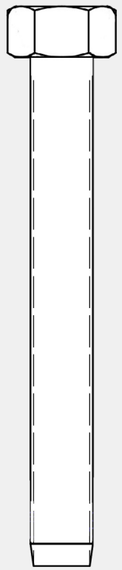


ANCHOR BOLT

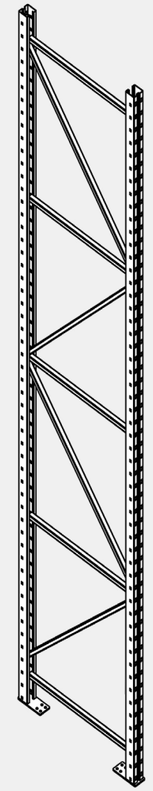
FLNGE NUT
7/16“ DIA

HEX NUT
7/16 X 1“L

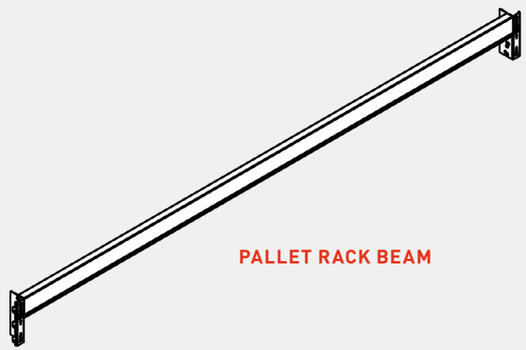
HEX NUT
7/16“ DIA



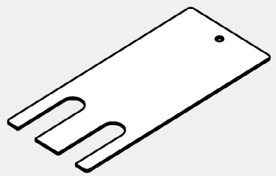
HEX BOLT
7/16 X 4“L



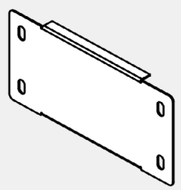
UPRIGHT FRAME



PALLET RACK BEAM



SHIM

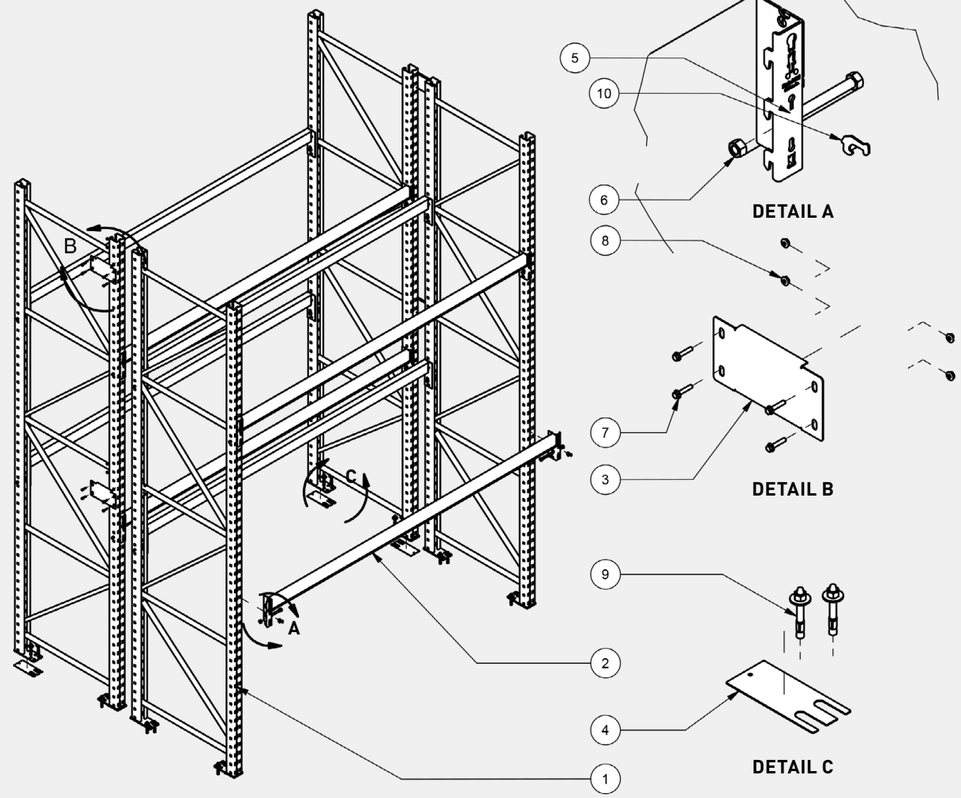


ROW SPACER

EXPLODED VIEW

PART LIST		
ITEM	QTY	DESCRIPTION
1	4	UPRIGHT FRAME
2	12	PALLET RACK BEAM
3	4	ROW SPACER
4	8	SHIM
5	24	HEX BOLT 7/16 X 4“L

PART LIST		
ITEM	QTY	DESCRIPTION
6	24	HEX NUT 7/16“ DIA
7	16	HEX BOLT FLANGE 7/16 X 1“L
8	16	HEX NUT FLANGE 7/16“ DIA
9	16	ANCHORAGE BOLT
10	24	SAFETY PIN



GENERAL REMARKS

installation of pallet rack must be implemented by a professional team who is qualified in the field. The team should be able to know the installation methods by understanding and read on plans. further, the assembly of these structures must be made in the codes and local regulations.

The loading pallet should be done in a way to avoid significant impacts.

To ensure the safety of users, the pallets should be solid and in good condition.

It is not recommended to install with the components from other manufacturers. Although some parts may be similar, they may affect the system overall strength.

The arrow of beam must not exceed the l/180. Which means for a pallet rack beam of 96 inches, the deflection beam shall not exceed 0.533 inches.

The maximum height of the last level of the pallet should not exceed six times the size of the upright frame. Example: for the upright frame of 42 inches, the maximum height of the last level of the pallet rack beam should not exceed the 252 inches.

Above this ratio, the system is unbalance and must be connected to other upright frame. this rule is valid also for upright back-to-back. we can consider the depth of two upright frame. (upright frames 42”, spacer 8”, 42” upright frame = 92” time 6 gives a maximun height 552”).

Maintain the distance between the palettes and the upright frame at least three inches.

Maintain the distance between the palettes at least three inches.

Maintain the distance between the palettes and below the tops pallet rack beam at least three inches.

We must provide a turning radius big enough for the lift truck do not have contact with the upright frame.

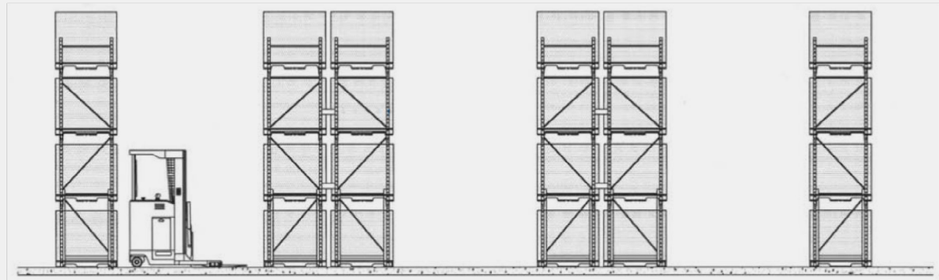
TO DO BEFORE ASSEMBLY

ASSEMBLY

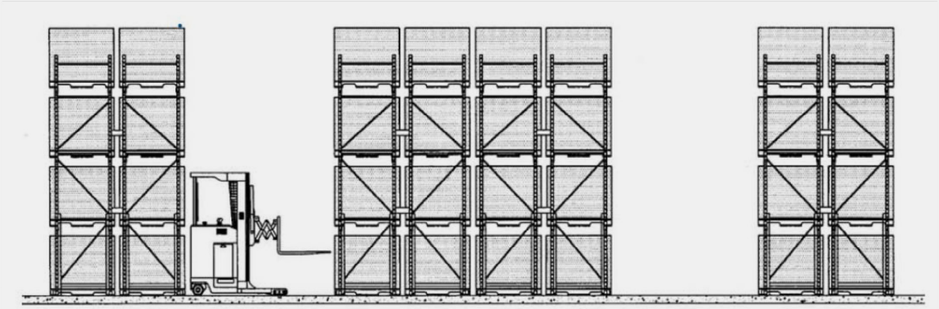
1- MAKE SURE YOU HAVE RECEIVED THE RIGHT EQUIPMENT WITH THE PACKING SLIP. IF THE MATERIAL DOES NOT FIT, CONTACT US AS SOON AS POSSIBLE.
2- VERIFY IF THERE IS NO OBSTACLE TO THE PLACE WHERE THE MATERIALS WILL BE INSTALLED.
3- EXECUTE THE MARKING FOR THE POSITION OF UPRIGHT FRAME TO PREVENT THE CONFLICT OF THE UPRIGHT FRAME WITH THE OBSTACLES OR THE FLOOR EXPANSION JOINTS.

DESCRIPTION OF THE PALLET RACKS

THE **SINGLE DEEP PALLET RACK** ALLOW THE ACCESS TO ALL PALLETS STORED. BECAUSE IT IS EASY IN THE LANE TO HAVE ACCESS IMMEDIATELY TO EACH PALETTE. DENSITY OF STORAGE IN A WAREHOUSE WHERE WE FOUND THIS TYPE OF PALLET RACK IS LESS DEMAND BECAUSE IT IS NECESSARY TO PROVIDE A BIG SPACE FOR MANY LANES. IN GENERAL, MORE LABOR, AS THE OPERATION OF HANDLING ARE MANY MORE.



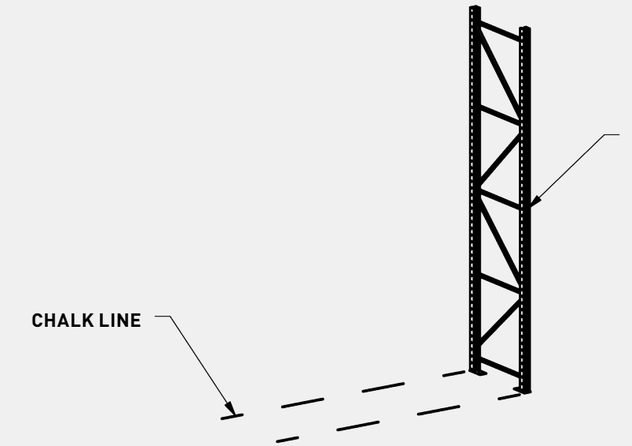
THE **DOUBLE DEEP PALLET RACK** ARE ESSENTIALLY A SINGLE DEEP PALLET RACK WHICH ADDED A SECOND ROW AND THIS IS WHERE THE NAME CAME FROM “DOUBLE DEEP”. DENSITY OF STORAGE IS INCREASED SUBSTANTIALLY BUT ACCESS TO LOAD IS LESS EASY. TO USE A REACH FORK LIFT TRUCK BECOMES NECESSARY.



ASSEMBLY

AS THE CONCEPT, INSTALLATION OF THE PALLET RACK IS A CRUCIAL IMPORTANCE FOR THE OPERATION, THE STABILITY AND THE SAFETY INSTALLERS ANS USERS. IT IS FOR THIS REASON THE INSTALLATION MUST BE DONE BY QUALIFIED PEOPLE. IT IS VERY IMPORTANT TO NOTE THAT EACH PALLET RACK IS CALCULATED ACCORDING TO THE SPECIALS REQUISES FROM EACH CUSTOMER. ALL LOADING ON THE CONFIGURATION OF THE PALLET RACK BEAMS CARRY THE CAPACITY OF CHANGE UPRIGHT FRAME. BEFORE MAKING A CHANGE, YOU MUST CALL MANUFACTURER OR TO A QUALIFY ENGINEER FOR THE LOADING AGREEMENT.

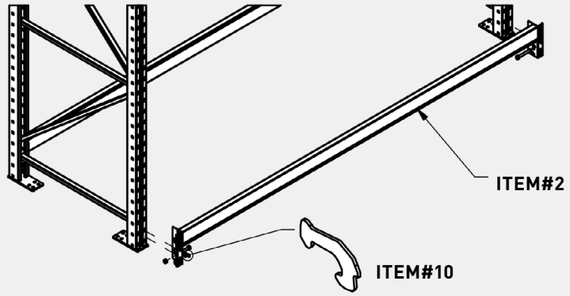
STEP 1
SNAP A CHALK LINE ON THE FLOOR FOR THE LOCATION OF UPRIGHT FRAME (ITEM#1).

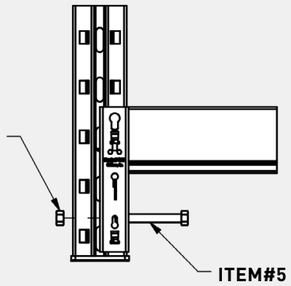


NOTE:
FOR THE INSTALLATION PROCEDURE OF PALLET RACK: SINGLE AND DOUBLE DEPTH.

STEP 2
KEEP SAFELY, WITH A FORKLIFT, FIRST PLACE THE UPRIGHT FRANE ON THE CHALK LINE.

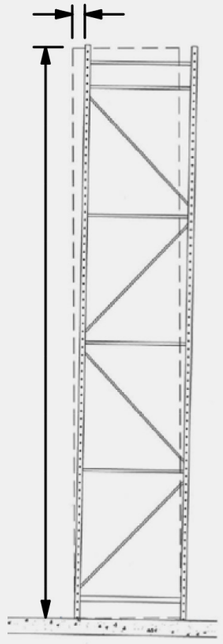
STEP 3
INSTALL THE PALLET RACK BEAM (ITEM#2) TO THE BASE OF THE UPRIGHT FRAME, AT 9 INCHES ABOVE THE GROUND. SET UP THE STRUCTURE WITH THE HEX BOLTS 7/16" X 4"L (ITEM#5) AND HEX NUT 7/16" DIA (ITEM#6) OR A SAFETY PIN (ITEM#10).



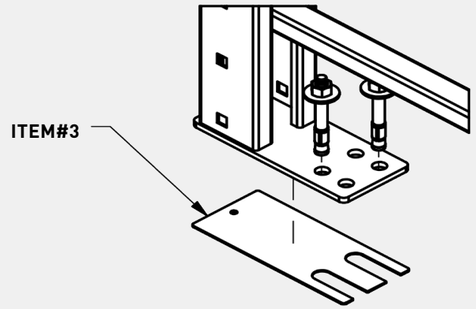


ASSEMBLAGE

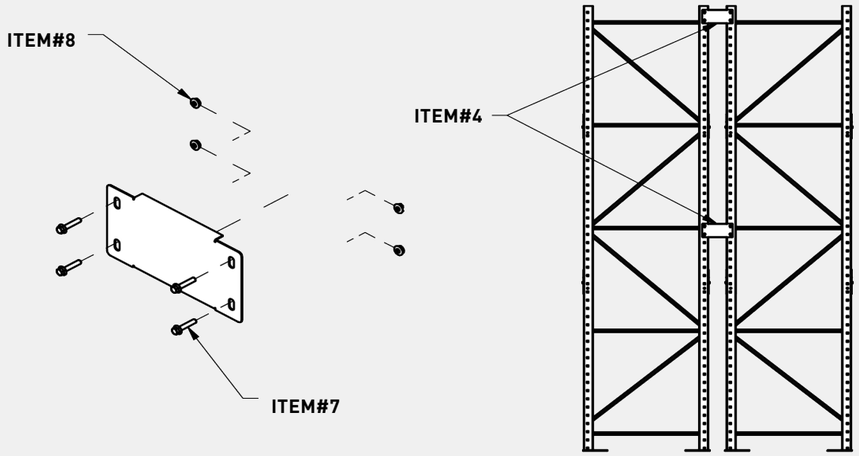
STEP 4
VERIFY THE OUT-OF-PLUMB OF THE UPRIGHT FRAME WITH A LEVEL LASER. THIS DIFFERENCE SHOULD NOT EXCEED THE 1/240 TIMES THE HEIGHT OF THE EMPTY UPRIGHT FRAME OR L/200 CHARGED.



EXAMPLE:
FOR AN UPRIGHT FRAME OF 240''(20'), THE DISTANCE OF THE OUT-OF-PLUMB SHALL NOT EXCEED 1''AS 240 / 240 = 1'', AS THE CRITERIA OF 1/240. IF THE DISTANCE IS GREATER, WE MUST LEVELED THE UPRIGHT BY USING A SHIM PLATE (ITEM#3) PLACED UNDER THE BASE OF THE UPRIGHTS. WHEN THE THICKNESS OF THE LEVELING PLATES EXCEED THE 1/2", THE ASSEMBLY MUST BE WELDED TOGETHER TO AVOID DRIFTING OF THE BASE PLATE.

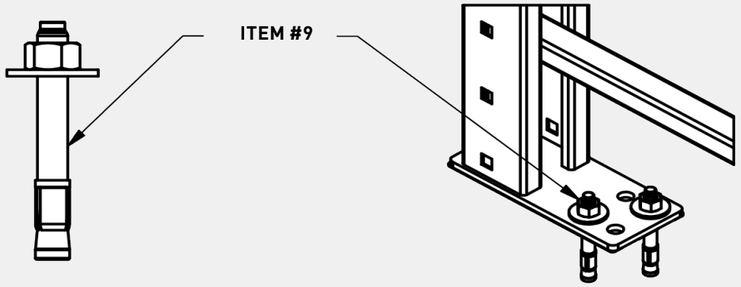


STEP 5
WHEN YOU HAVE BACK-TO BACK RACKING, FIX THE UPRIGHT WITH A ROW SPACER (ITEM#4), HEX BOLT 7/16" X 1" L (ITEM#7) AND FLANGE NUT 7/16" DIA (ITEM#8) BEFORE THE LEVELER. AS THE IMAGE ABOVE THE HEIGHT IS DETERMINED OR AS DIRECTED ENGINEER. THEY MADE THE INSTALLATION MUST BE POSSIBLE NEAR THE JUNCTION OF HORIZONTAL AND DIAGONAL BRACING.

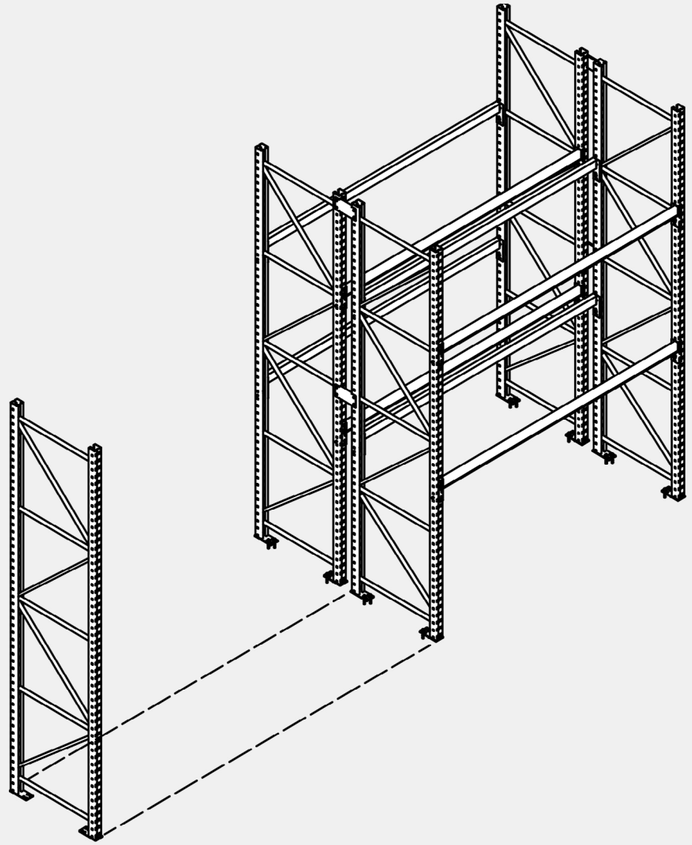


ASSEMBLY

STEP 6
WHEN UPRIGHT ARE LEVELED INSTALL ANCHOR BOLT ON THE BASE PLATE. NORMALLY PUT TWO ANCHOR ON THE FRONT BASE PLATE AND ONE ON THE BACK BASE PLATE.



STEP 7
WHERE THE UPRIGHT FRAME ARE FIXED ON THE GROUND, YOU CAN REMOVE THE FIRSTS PALLETS RACKS BEAMS LOCATED AT 9 INCHES OF THE GROUND IF IT NOT REQUIRED ON THE DRAFT PLAN.



NOTES

ETALEX

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