

INDUSTRY

PAVIATH INTEGRATED SOLUTION

STRUCTURAL

RACK SYSTEM

RACK SYSTEM 1

Paviath **ONLINE**

◆ STRUCTURAL ◆ RACK SYSTEM ◆ INDUSTRY ◆ TRAINING

ENCYCLOPEDIA OF RACKING SYSTEM

I.RACK SYSTEM (FOR GENERAL & ALL TYPES)

https://en.wikipedia.org/wiki/Rack

AMP RACK, SHORT FOR AMPLIFIER RACK, A PIECE OF FURNITURE IN WHICH AMPLIFIERS ARE MOUNTED

BICYCLE RACK, A FRAME FOR STORING BICYCLES WHEN NOT IN USE BUSTLE RACK, A TYPE OF STORAGE BIN MOUNTED ON ARMORED FIGHTING VEHICLES

DRYING RACK, FOR HANGING CLOTHING TO DRY

PALLET RACKING, STRUCTURAL RACKS (USUALLY STEEL) FOR STORING PALLETISED LOADS

RACK (BILLIARDS)

ROOF RACK, A SYSTEM USED TO CARRY ITEMS ON TOP OF A CAR STANDARDIZED EQUIPMENT RACKS

19-INCH RACK AND 23-INCH RACK, COMMONLY USED FOR COMPUTER,

COMMUNICATIONS, AND AV EQUIPMENT

RACK UNIT, EQUIPMENT SIZING MEASURE

INTERNATIONAL STANDARD PAYLOAD RACK, USED IN SPACEFLIGHT TOAST RACK, A SERVING PIECE

RACK TYPES.DEFINITION AND APPLICATION

PALLET RACKS ARE A CONVENIENT AND FUNCTIONAL DESIGN FOR PLACING GOODS ON PALLETS. PALLET SHELVING STRUCTURES CAN BE SUBDIVIDED INTO FRONTAL AND DEEP.

SHELVING RACKS ARE A TYPE OF SHELVING USED FOR STORING PIECE AND MANUAL HANDLING IN A DIVERSIFIED WAREHOUSE OF PIECE PRODUCTS: CONTAINERS, BOXES, ETC.

MOBILE RACKS ARE STRUCTURES DESIGNED FOR ROOMS WITH LIMITED VOLUME, REQUIRING THE ORGANIZATION OF A SYSTEM WITH THE ABILITY TO CLASSIFY ITS CONTENTS. THESE SHELVING SYSTEMS ARE IDEAL FOR VARIOUS ARCHIVES AND LIBRARIES.

CANTILEVER RACKS ARE USED FOR STORING OVERSIZED LONG LOADS. SUCH LOADS ARE PLACED USING SPECIAL EQUIPMENT.

GRAVITY RACKS ARE A SPECIAL TYPE OF PALLET RACKS, EQUIPPED WITH SPECIAL ROLLER TRACKS, INCLINED AT A SLIGHT ANGLE TO THE HORIZON (3 - 5 DEGREES) SO THAT PALLETS ROLL FROM THE LOADING AREA TO THE UNLOADING AREA UNDER THE INFLUENCE OF GRAVITY. MEZZANINES ARE EQUIPMENT THAT, THANKS TO THE MULTI-TIERED STRUCTURE, HELPS TO MAXIMIZE THE USE OF THE ENTIRE WAREHOUSE AREA.

ADDITIONAL TYPES TO BE ADDED

I.RACK SYSTEM (FOR GENERAL & ALL TYPES)

ENCYCLOPEDIA OF ALL TYPES

DEFINITION, DESCRIPTION OF EACH TYPES

DESIGN CRITERIA OF EACH TYPES

TECHNICAL PAPERS ON ANALYSIS & DESIGN OF EACH
LIST OF MANUFACTURER OF EACH IN INDIA & OTHER COUNTRIES

TYPES & SPECIFICATION AVAILABLE IN MARKET

III SHELVING DESIGN CRITERIA (FOR GENERAL & ALL TYPES) METHODS AND APPROACHES TO THE CALCULATION OF RACHING A) SETTING LOADS B) EFFECTIVE CROSS-SECTIONAL AREA. TAKING INTO ACCOUNT LOCAL BL

B) EFFECTIVE CROSS-SECTIONAL AREA. TAKING INTO ACCOUNT LOCAL BUCKLING C) CALCULATION OF THE DEFLECTIONS OF THE PALLET BEAM D)COLLAPSE EXPERTISE - POSSIBLE CAUSES

STANDARDS FOR GENERAL & ALL TYPES
GOST RUSSIAN STANDARD
DIN GERMAN STANDARD
EN EUROPIAN STANDARD
ISO INTERNATIONAL STANDARD
BIS INDIAN STANDARD
OTHER STANDARDS

DESIGN & ANALYSIS TECHNICAL PAPERS FOR GENERAL & ALL TYPES

SEISMIC BEHAVIOR AND DESIGN OF STEEL STORAGE RACKS

https://www.iitk.ac.in/nicee/wcee/article/13 481.pdf

DESIGN OF INDUSTRIAL STORAGE RACKS

https://scholarsmine.mst.edu/cgi/viewcontent.cgi?article=1467&context=isccss

SPECIFICATION FOR THE DESIGN, TESTING AND UTILIZATION OF INDUSTRIAL STEEL STORAGE RACKS

https://www.palletracksystems.com/assets/docs/ANSI_testing_standards.pdf

DESIGN GUIDE

https://www.eqc.govt.nz/sites/public_files/338-Seismic-design-high-level-storage-racking%28red%29.pdf

MANUFACTURE<u>rer list</u>

CRAFTSMAN STORAGE SYSTEMS

https://www.craftsmanstorage.com/

NATIONAL STEEL INDUSTRIES

https://www.nationalsteelindustries.co.in/heavy-duty-racks.html

PRP FURNITURE INDUSTRIES

https://www.prpfurniture.in/pallet-racking-system.html

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