200 doc support horizontal ducts with hangers of size and spacing as indicated in pertinent smacna duct bracing angles conform to hanger schedule, seismic restraint systems guidelines section 3 single pipe hanger rigid brace spacing charts spacing charts for concrete attachments spacing charts for steel attachments 1 10 1 12 rigid bracing for rectangular duct rigid bracing for round duct section 5 trapeze rigid brace spacing charts, duct support and bracing support duct risers as shown on the drawings ducts supported from above attach to structure using specified attachments minimum rod or bolt size is 3 8 inch 10 mm support spacing see division 23 sections metal ducts and metal ducts fittings double fold strap at attachment to structure, the world s fastest hanger the clamp hanger replaces the nuts and bolts that other hangers use with a genuine nordfab qf clamp simply slide it into place and clamp it repositioning is no problem simply unclamp the hanger slide to the new position and reclamp, hvac duct construction standards metal and flexible information required for duct construction 1 a comprehensive duct layout indicating duct gage is 20 joint spacing is 5 feet 56 in tdc tdf for transverse joint intermediate reinforcement 2 feet zg class angle 1 x 1 x 8 not required on the 26 in side, figure 4 8 floor supported duct figure 4 9 single hanger spacing for round ducts 33 36 inches 838 900 mm figure 4 10 single hanger cable bracing for round ducts 33 36 inches 838 900 mm figure 4 13 transverse bracing for pipes figure 4 14 strut bracing for pipes figure 4 16 longitudinal bracing for pipes figure 4 18 cable bracing for pipes, construction reinforcements and hangers and supports shall comply with smacna s hvac duct construction standards metal and flexible and performance requirements and design criteria indicated in duct schedule article b structural performance duct hangers and supports shall withstand the effects of gravity loads, shown so as to provide this manual as a quick reference to smacna standards 1 other 4 bolt manufacturers have prepared duct construction standards but ward industries is the only manufacturer that is in full compliance with the smacna hvac duct construction standards 2nd ed in so much as they have had, round industrial duct construction standards second edition is available to smacna members at the member price of 77 to architects and engineers at the discounted price of 212 and to others at the list price of 295 it is also available on cd rom and in pdf format, search content enter keywords for content search clear all filters advanced search basic search elibrary gt rectangular industrial duct construction standards ip version gt, chapter 6 duct systems 601 0 general 602 0 material 603 0 installation of ducts cooling or evaporative cooling duct systems constructed of metal shall comply with smacna hvac duct construction standards metal and flexible or ul 181 in diameter where suspended from above shall be supported with one hanger per interval and in, ductwork support spacing tech brief 13 01 question can we use 14 foot support spacing for round spiral ductwork overview smacna hvac duct construction metal and flexible 2005 table 5 2 allows for a maximum spacing of 12 feet in addition smacna 2005 stipulates the required wire size rod or strap required for proper support, kinetics pipe amp duct seismic application manual seismic restraint basics for pipe and duct page 1 of 18 section s1 0 toll free usa only 800 959 1229 released on 12 17 2009 followed standards of practice for the placement of seismic restraints for pipe and duct smacna h the actual pipe or duct hanger spacing on a run, tional association inc smacna has responded to this need by publishing a manual of round industrial duct construction standards to our knowledge this is the first work dealing with the selection of gage and reinforcing systems for industrial duct we have considered the span distance between hangers, 1 exam prep hvac duct construction standards 1 1 exam prep smacna hvac duct construction standards tabs and highlights these 1 exam prep tabs are based on the hvac duct construction standards metal and flexible each 1 exam prep tabs sheet has five rows of tabs, located in headquarters outside washington d c the sheet metal and air conditioning contractors national association smacna an international association of union contractors has 1 834 members in 103 chapters throughout the united states canada australia and brazil, figure 4 8 floor supported duct figure 4 9 single hanger spacing for round ducts 33 36 inches 838 900 mm figure 4 10 single hanger cable bracing for round ducts 33 36 inches 838 900 mm figure 4 11 double hanger bracing for round ducts up to 84 inches 2100 mm figure 4 12 double hanger cable bracing for round ducts 33 36 inches 838 900 mm, available in a range of sizes all with a 5 1 safety factor the standard hanger remains another versatile and simplistic means of suspension for spiral oval and rectangular duct black line ready to use suspension kits in a black finish for enhanced aesthetics, every above ground duct installation needs hangers or supports of some kind us duct offers a wide variety of hangers to accomplish the task see a list of many of our standard hangers below and if our standard hangers do not fit your ductwork application we will fabricate what you need available ductwork hangers, construction reinforcements and hangers and supports shall comply with smacna s hvac duct construction standards metal and flexible and performance requirements and design criteria indicated in the duct schedule article and on the drawings b structural performance duct hangers and supports
shall withstand the effects of gravity loads, the smacna testing amp research institute stri verifies erico speed link caddy wire rope system sld 2l amp sld 3l as submitted and described below to be acceptable alternatives to the duct hanger systems prescribed in the hvac duct construction standards hvac dcs, spacing 1 wide x 1 high 18ga v type stiffener notes 1 tdc duct constructed per smacna standards first edition 1995 2 duct fabricated using snaplock seams 3 all duct stiffened by machine formed beads spaced at 12 o c 4 duct work to be sealed per smacna hvac table 1 2 5, table 8 1 2a minimum gage required for round duct based on support spacing for class 2 table 8 1 2am minimum thickness required for round duct based on support spacing for class 2 table 8 1 2b minimum gage required for round duct based on support spacing for class 2, note tabulated data from smacna allows for duct reinforcing and insulation but no external load load rated fasteners band of same size as hanger strap 50 1250mm amp under hanger rods band over 50 1250mm scale date issued cad detail no detail title round duct hangers december 2008 sd233100 14 dwg none, installing seismic restraints for duct and pipe ii iii installing seismic restraints for duct and pipe smacna the american society of civil engineers asce project team paul tertell fema project officer refer to local codes for hanger spacing requirements introduction to use this guide 1, hangers support spacing and rod size for horizontal pipes recommended maximum support span between hangers and rod sizes for straight horizontal pipes sponsored links ductwork support ductwork support and recommended distance between hangers en 10312, the smacna testing amp research institute stri verifies duro dyne dyna tite cl23 cable lock system 1 8 amp 3 16 wire rope as submitted and described below to be acceptable alternatives to the duct hanger systems prescribed in the hvac duct construction standards, ductwork seal classes ductwork prone to air leakages hangers support spacing and rod size for horizontal pipes recommended maximum support span between hangers and rod sizes for straight horizontal pipes, 9 the type of duct used for positive pressure applications only unless special designs are used is a round duct b flat oval duct c flexible duct d straight duct 10 duct joints are normally strong enough to permit maximum hanger spacing at a 6 to 8 foot intervals b 8 to 12 foot intervals c 8 to 10 foot intervals d 6 to 10 foot intervals 11, smooth support ducts rigidly with suitable ties braces hangers and anchors of type which will hold ducts true to shape and to prevent buckling b support ductwork in manner complying with smacna low pressure duct standards 5th edition hangers and supports section 3 02 installation of frp ductwork, required support bracket fastener s since the product is designed to withstand snow amp ice loads it is important to use the correct fastener s for this bracket if architectural specifications do not state fastener type use 10 x 2 flat head stainless screws our smacna gutters are available in custom sizes amp shapes these instructions apply, the hanger rod spacing along the run of pipe or duct this section will determine the maximum allowable seismic restraint spacing for pipe and duct between the longitudinal seismic restraints it will begin by examine the seismic restraint spacing requirements for pipe and duct developed by smacna s11 2 seismic hazard level shl, users can select spiral or welded duct the duct material various live loads such as snow and wind loading various dead loads such as insulation and cladding hanger spacing air temperature and particulate properties once the information is selected the app can generate several answers and the user can select which options to consider, ductwork support spacing tech brief 13 01 question can we use 14 foot support spacing for round spiral ductwork overview smacna hvac duct construction metal and flexible 2005 table 5 2 allows for a maximum spacing of 12 feet in addition smacna 2005 stipulates the required wire size rod or strap required for proper support, many codes require pipe hangers to be spaced every 10 ft regardless of 1 cubic ft of water weighs 62 41 lbs size check local codes 1 gallon u s weighs 8 335 lbs spacing and capacities are based on water filled pipe closer hanger spacing may be required where additional valves and fittings increase the load, all ducts suspended by hangers 12 inches or less in length from the top of the duct to the bottom of the support for the hanger 5 unistrut nuts and bolts mounted to the unistrut channels shall be tightened to the following minimum maximum pipe support spacing should be as per chart 1 row 3 page 3 12, test and verification report on gripple hang fast wire duct hanger system gripple hang fast wire duct hanger systems number 2 3 and 4 as acceptable alternatives for use with smacna hvac duct construction standards metal and flexible second edition 1995, hanger spacing in accordance with smacna or as follows duct size spacing mm mm to 1500 3000 1501 and over 2500 watertight duct provide watertight duct for dishwasher exhaust fresh air intake minimum 3000 mm from duct mounted humidifier in all directions as indicated form bottom of horizontal duct without longitudinal seams, 3 high velocity duct systems high velocity hv duct systems are characterized by air velocities in the range of 2500 to 3500 fpm low velocity ductwork design is very important for energy efficiency in air distribution systems low velocity design will lead to larger duct sizes but it may be worth since doubling of duct diameter, if the designer does not designate pressure class for duct construction on the contract drawings the basis of compliance with the smacna hvac duct construction standards is as follows 2 500 pa w g for all ducts between the supply fan and variable volume control boxes and 1 250 pa w g for all other ducts of any application, ansi smacna 006 2006 hvac duct construction standards eli p howard iii sheet metal and air
conditioning contractors national association documents preceding 3rd edition hvac dcs joint type spacing intermediate reinforcement type spacing dependent variables regular ducts, smacna hangers and supports download as pdf file pdf text file txt or read online the result is a cascading failure in which an entire run of duct might fall second edition 8 hanger spacing a straight duct section is actually a box section beam of considerable strength 0.5 m intervals 9 trapeze selection trapeze members must, smacna seismic restraint manual mark terzigni project manager smacna technical resources 0d of the duct to the bottom of the support where bracing of ducts the hanger is attached hangers must be reduce the brace spacing by of the spacing allowed in the manual, meter of spacing between supports see fig 19 a connection to rigid duct or equipment may be considered a support joint hanger or saddle material in contact with the flexible duct shall be of sufficient width to prevent any restriction of the internal diameter of the duct when the weight of the supported section rests on the, hanger spacing comply with smacna s hvac duct construction standards metal and flexible table 5.1 table 5.1m rectangular duct hangers minimum size and table 5.2 minimum hanger sizes for round duct for maximum hanger spacing install hangers and supports within 24 inches of each elbow and within 48 inches of each branch intersection, guidelines for duct hangers amp supports installing fibreglass ducting corrosion resistant and light weight fibreglass ducting is widely used for ducting corrosive gases at industrial sites and in corrosive atmospheres the table below offers generalised information on hangers and supports when installing fibreglass ducting, the smacna testing amp research institute stri verifies in the attached test report caddy rod lock models crd37teg crld37bneg and crld37beg as submitted and tested to be acceptable alternatives to the duct hanger systems prescribed in the ansi smacna hvac duct