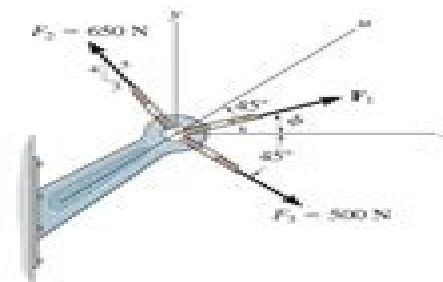


2-45.

If the resultant force acting on the bracket is to be directed along the positive x axis, and the magnitude of F_1 is required to be minimum, determine the magnitudes of the resultant force and F_1 .



SOLUTION

Rectangular Components: By referring to Figs. a and b , the x and y components of F_1 , F_2 , F_3 , and F_R can be written as

$$\begin{aligned}(F_1)_x &= F_1 \cos \phi & (F_1)_y &= F_1 \sin \phi \\(F_2)_x &= 650 \left(\frac{3}{5} \right) = 390 \text{ N} & (F_2)_y &= 650 \left(\frac{4}{5} \right) = 520 \text{ N} \\(F_3)_x &= 500 \cos 45^\circ = 353.55 \text{ N} & (F_3)_y &= 500 \sin 45^\circ = 353.55 \text{ N} \\(F_R)_x &= F_R \cos 45^\circ = 0.7071 F_R & (F_R)_y &= F_R \sin 45^\circ = 0.7071 F_R\end{aligned}$$

Resultant Force: Summing the force components algebraically along the x and y axes, we have

$$\begin{aligned}\rightarrow \Sigma (F_R)_x &= \Sigma F_{x_i} & 0.7071 F_R &= F_1 \cos \phi - 390 + 353.55 & (1)\end{aligned}$$

$$\begin{aligned}+\uparrow \Sigma (F_R)_y &= \Sigma F_{y_i} & 0.7071 F_R &= F_1 \sin \phi + 520 - 353.55 & (2)\end{aligned}$$

Eliminating F_R from Eqs. (1) and (2), yields

$$F_1 = \frac{202.89}{\cos \phi - \sin \phi} \quad (3)$$

The first derivative of Eq. (3) is

$$\frac{dF_1}{d\phi} = \frac{\sin \phi + \cos \phi}{(\cos \phi - \sin \phi)^2} \quad (4)$$

The second derivative of Eq. (3) is

$$\frac{d^2 F_1}{d\phi^2} = \frac{2(\sin \phi + \cos \phi)^2}{(\cos \phi - \sin \phi)^3} + \frac{1}{\cos \phi - \sin \phi} \quad (5)$$

For F_1 to be minimum, $\frac{dF_1}{d\phi} = 0$. Thus, from Eq. (4)

$$\sin \phi + \cos \phi = 0$$

$$\tan \phi = -1$$

$$\phi = -45^\circ$$

Substituting $\phi = -45^\circ$ into Eq. (5), yields

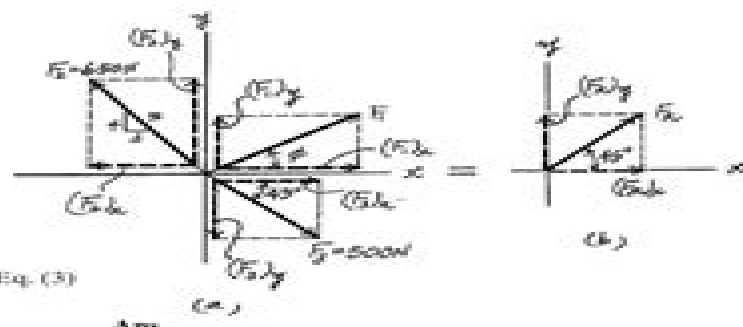
$$\frac{d^2 F_1}{d\phi^2} = 0.7071 > 0$$

This shows that $\phi = -45^\circ$ indeed produces minimum F_1 . Thus, from Eq. (3)

$$F_1 = \frac{202.89}{\cos(-45^\circ) - \sin(-45^\circ)} = 143.47 \text{ N} \approx 143 \text{ N}$$

Substituting $\phi = -45^\circ$ and $F_1 = 143.47 \text{ N}$ into either Eq. (1) or Eq. (2), yields

$$F_R = 91.9 \text{ N}$$



Ans.

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 - The Rise of Digital Reading Pearson Statics Solutions Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Pearson Statics Solutions Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
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 - Popular eBook Platforms
 - Features to Look for in an Pearson Statics Solutions Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Pearson Statics Solutions Manual
 - Personalized Recommendations
 - Pearson Statics Solutions Manual User Reviews and Ratings
 - Pearson Statics Solutions Manual and Bestseller Lists

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 - Carving Out Dedicated Reading Time
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web tpo accessories thermoplastic polyolefin tpo roofing thermoplastic membrane roofing 07 54 23 01 description a contact type bonding adhesive specially designed for bonding tpo single ply roofing membranes and flashings to various roofing substrates

product evaluation texas department of insurance - Mar 21 2022

web ez tpo bonding adhesive is a solvent based contact adhesive genflex water based bonding adhesive p is a contact

adhesive used for bonding genflex tpo membranes to acceptable substrates ez tpo bonding adhesive lvoc is a solvent based formulation used for bonding genflex tpo membranes to acceptable substrates ez

jm lvoc membrane adhesive tpo and epdm johns manville - Oct 28 2022

web summary technical use for adhering jm tpo and jm epdm membranes to approved substrates do not use on fleece backed membranes at any time type one part low voc synthetic polymer based membrane adhesive substrates compatible with approved insulations and cover boards wood substrates concrete and light weight concrete decks

ez tpo bonding adhesive lvoc willistowerswatson lifesight nl - Feb 17 2022

web decoding ez tpo bonding adhesive lvoc revealing the captivating potential of verbal expression in a period characterized by interconnectedness and an insatiable thirst for knowledge the captivating potential of verbal expression has emerged as low voc bonding adhesive epdm and tpo technical data - Aug 26 2022

web low voc bonding adhesive is a high strength solvent based contact adhesive that allows bonding of epdm and tpo membrane to various porous and non porous substrates this product meets the 250 gpl voc content requirements of the otc model rule for single ply roofing adhesives

tpo bonding adhesive lvoc 5 gallon pail beacon building - May 03 2023

web genflex ez tpo bonding adhesive lvoc is a solvent based contact adhesive designed specifically for bonding genflex tpo membranes and flashings to approved substrates such as insulations metal concrete wood and other acceptable substrates

ez tpo bonding adhesive genflex com - Jan 31 2023

web product name ez tpo bonding adhesive 1 2 relevant identified uses of the substance or mixture and uses advised against relevant identified use s adhesive 1 3 details of the supplier of the safety data sheet manufacturer firestone building products company 250 west 96th street indianapolis in 46260 united states genflexmsds bfdp com

ez tpo bonding adhesive lvoc genflex com - Jun 04 2023

web ez tpo bonding adhesive lvoc 250 west 96th street indianapolis in 46260 800 443 4272 genflex com pds 828b 04 10 2014 application precautions 100 adhesive coverage on both the membrane and substrate is required do not apply bonding adhesive to seam areas avoid globs or puddles of adhesive product data size contents

genflex genflex commercial roofing systems easy to use - Mar 01 2023

web genflex genflex commercial roofing systems easy to use fast to install

gaf everguard low voc tpo bonding adhesive - Sep 26 2022

web everguard tpo low voc bonding adhesive contains less than 250 grams per liter of volatile organic compounds vocs and has been formulated using a blend of voc exempt and non exempt solvents to be in compliance with air quality regulations for single ply roofing adhesives

ez tpo fb bonding adhesive lvoc genflex - Aug 06 2023

web safety data sheet section 1 identification of the substance mixture and of the company undertaking 1 1 product identifier
product name l ez tpo fb bonding adhesive lvoc 1 2 relevant identified uses of the substance or mixture and uses advised
against relevant identified use s l construction

jm lvoc membrane adhesive johns manville - Nov 28 2022

web jm lvoc membrane adhesive tpo epdm rs 7833 12 22 replaces 2 18 features and components use for adhering jm tpo and
jm epdm membranes to approved substrates do not use on fleece backed membranes at any time type one part low voc
synthetic polymer based membrane adhesive substrates compatible with approved

ez tpo bonding adhesive lvoc genflex - Sep 07 2023

web nov 5 2014 description genflex ez tpo bonding adhesive lvoc is a solvent based contact adhesive designed specifically
for bonding genflex tpo membranes and flashings to approved substrates such as insulations wood metal concrete and other
acceptable substrates installation

rc 208 firestone ultraply tpo and genflex ez tpo roofing - Apr 21 2022

web product name elevate ultraply tpo and genflex ez tpo roofing systems installed over gypsum roof decks manufacturer
holcim solutions and products us llc 26 century blvd suite 205 nashville tn 37214 800 428 4511 general description elevate
product description