LAMPIRAN I

Tulisan program pada lembar 1;

```
Public Sub Menghapushitungan( )
   Lembar1.Activate
   Lembar1.Range("Q9:T34").Select
   Selection.ClearContents
   Range("V8:DB34").Select
   Selection.ClearContents
   Range("DE9:DF41").Select
   Selection.ClearContents
   Range("DG8:FN41").Select
   Selection.ClearContents
   Range("FQ8:GG34").Select
   Selection.ClearContents
   Range("GK8:GQ17").Select
   Selection.ClearContents
   Range("GT8:HC34").Select
   Selection.ClearContents
   Range("HI21:HL30").Select
   Selection.ClearContents
   Range("HO21:HR30").Select
   Selection.ClearContents
   Range("HW21:IE30").Select
   Selection.ClearContents
   Range("IJ19:IP45").Select
   Selection.ClearContents
End Sub
Public Sub MenentukanMntls( )
   Lembar1.Activate
   Lembar1.Range("Q9").Select
   ActiveCell.FormulaR1C1 = "=R[-1]C"
   Selection.AutoFill Destination:=Range("Q9:Q34"), Type:=xlFillDefault
   Range("Q9:Q34").Select
   Range("R9").Select
   ActiveCell.FormulaR1C1 = "=R[-1]C"
   Selection.AutoFill Destination:=Range("R9:R34"), Type:=xlFillDefault
   Range("R9:R34").Select
   Range("S9").Select
   ActiveCell.FormulaR1C1 = "=R[-1]C"
   Selection.AutoFill Destination:=Range("S9:S34"), Type:=xlFillDefault
   Range("S9:S34").Select
   Range("T9").Select
   ActiveCell.FormulaR1C1 = "=R[-1]C"
   Selection.AutoFill Destination:=Range("T9:T34"), Type:=xlFillDefault
   Range("T9:T34").Select
   Range("V8").Select
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    ActiveCell.FormulaR1C1 = "=RC[-20]"
    Selection.AutoFill Destination:=Range("V8:V34"), Type:=xlFillDefault
    Range("V8:V34").Select
    Range("W8").Select
    ActiveCell.FormulaR1C1 = "=RC[-20]"
    Selection.AutoFill Destination:=Range("W8:W34"), Type:=xlFillDefault
    Range("W8:W34").Select
    Range("X8").Select
    ActiveCell.FormulaR1C1 = "=RC[-20]"
    Selection.AutoFill Destination:=Range("X8:X34"), Type:=xlFillDefault
    Range("X8:X34").Select
    Range("Y8").Select
    ActiveCell.FormulaR1C1 = "=RC[-19]"
    Selection.AutoFill Destination:=Range("Y8:Y34"), Type:=xlFillDefault
    Range("Y8:Y34").Select
    Range("Z8").Select
    ActiveCell.FormulaR1C1 = "=170/(RC[-9]^0.5)"
    Selection.AutoFill Destination:=Range("Z8:Z34"), Type:=xlFillDefault
    Range("Z8:Z34").Select
    Range("AA8").Select
    ActiveCell.FormulaR1C1 = "=370/((RC[-10]-RC[-13])^0.5)"
    Selection.AutoFill Destination:=Range("AA8:AA34"), Type:=xlFillDefault
    Range("AA8:AA34").Select
    Range("AB8").Select
    ActiveCell.FormulaR1C1 = "=RC[-17]*RC[-11]"
    Selection.AutoFill Destination:=Range("AB8:AB34"), Type:=xlFillDefault
    Range("AB8:AB34").Select
    Range("AC8").Select
    ActiveCell.FormulaR1C1 = "=RC[-18]*RC[-12]"
    Selection.AutoFill Destination:=Range("AC8:AC34"), Type:=xlFillDefault
    Range("AC8:AC34").Select
    Range("AD8").Select
    ActiveCell.FormulaR1C1 = _
        "=(RC[-19]*RC[-13])-(((RC[-19]*RC[-13])-(RC[-22]*(RC[-13]-RC[-
16])))*((RC[-5]-RC[-4])/(RC[-3]-RC[-4])))"
    Selection.AutoFill Destination:=Range("AD8:AD34"), Type:=xlFillDefault
    Range("AD8:AD34").Select
    Range("AE8").Select
    ActiveCell.FormulaR1C1 = _
        "=((PI())/RC[-13])*(((((((PI())*RC[-16])/RC[-13])^2)*(RC[-18]*RC[-
22]))+(RC[-16]*RC[-22]*RC[-15]*RC[-19]))^0.5)"
    Selection.AutoFill Destination:=Range("AE8:AE33"), Type:=xlFillDefault
    Range("AE8:AE33").Select
    Selection.AutoFill Destination:=Range("AE8:AE34"), Type:=xlFillDefault
    Range("AE8:AE34").Select
```

```
   Range("AH3").Select
   Range("AF8").Activate
   For n1 = 1 To 27
   Lamdas = ActiveCell.Offset(0, -7)
   Lamdaps = ActiveCell.Offset(0, -6)
   Lamdars = ActiveCell.Offset(0, -5)
   Kategori = ActiveCell
   If Lamdas <= Lamdaps Then Kategori = "Sayap kompak": GoTo 30 Else GoTo 10
10  If Lamdas <= Lamdars Then Kategori = "Sayap tidak kompak": GoTo 30 Else
GoTo 20
20  Kategori = "Sayap langsing": GoTo 30
30  ActiveCell = Kategori
    ActiveCell.Offset(1, 0).Activate
    Next n1
    Range("AG8").Activate
    For n2 = 1 To 27
    Mn = ActiveCell
    Mp = ActiveCell.Offset(0, -5)
    Mnsk = ActiveCell.Offset(0, -4)
    Mnstk = ActiveCell.Offset(0, -3)
    Mnsl = ActiveCell.Offset(0, -2)
    Kategori = ActiveCell.Offset(0, -1)
    If Kategori = "Sayap kompak" Then Mn = Mnsk: GoTo 70 Else GoTo 40
40  If Kategori = "Sayap tidak kompak" Then Mn = Mnstk: GoTo 70 Else GoTo 50
50  If Mnsl <= Mp Then Mn = Mnsl: GoTo 70 Else GoTo 60
60  Mn = Mp
70  ActiveCell = Mn
    ActiveCell.Offset(1, 0).Activate
    Next n2
End Sub
Public Sub MenentukanMntlb()
    Lembar1.Activate
    Lembar1.Range("AI8").Select
    ActiveCell.FormulaR1C1 = "=RC[-33]"
    Selection.AutoFill Destination:=Range("AI8:AI34"), Type:=xlFillDefault
    Range("AI8:AI34").Select
    Range("AJ8").Select
    ActiveCell.FormulaR1C1 = "=RC[-33]"
    Selection.AutoFill Destination:=Range("AJ8:AJ34"), Type:=xlFillDefault
    Range("AJ8:AJ34").Select
    Range("AK8").Select
    ActiveCell.FormulaR1C1 = "=RC[-33]"
    Selection.AutoFill Destination:=Range("AK8:AK34"), Type:=xlFillDefault
    Range("AK8:AK34").Select
    Range("AL8").Select
    ActiveCell.FormulaR1C1 = "=RC[-31]"
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```
  Selection.AutoFill Destination:=Range("AL8:AL34"), Type:=xlFillDefault
  Range("AL8:AL34").Select
  Range("AM8").Select
  ActiveCell.FormulaR1C1 = "=1680/(RC[-22]^0.5)"
  Selection.AutoFill Destination:=Range("AM8:AM34"), Type:=xlFillDefault
  Range("AM8:AM34").Select
  Range("AN8").Select
  ActiveCell.FormulaR1C1 = "=2550/(RC[-23]^0.5)"
  Selection.AutoFill Destination:=Range("AN8:AN34"), Type:=xlFillDefault
  Range("AN8:AN34").Select
  Range("AO8").Select
  ActiveCell.FormulaR1C1 = "=RC[-30]*RC[-24]"
  Selection.AutoFill Destination:=Range("AO8:AO34"), Type:=xlFillDefault
  Range("AO8:AO34").Select
  Range("AP8").Select
  ActiveCell.FormulaR1C1 = _
    "=(RC[-31]*RC[-25])-(((RC[-31]*RC[-25])-(RC[-34]*(RC[-25]-RC[-
28])))*((RC[-4]-RC[-3])/(RC[-2]-RC[-3])))"
  Selection.AutoFill Destination:=Range("AP8:AP34"), Type:=xlFillDefault
  Range("AP8:AP34").Select
  Range("AQ8").Activate
  For n3 = 1 To 27
  Lamdab = ActiveCell.Offset(0, -5)
  Lamdapb = ActiveCell.Offset(0, -4)
  Lamdarb = ActiveCell.Offset(0, -3)
  Kategori = ActiveCell
  If Lamdab <= Lamdapb Then Kategori = "Badan kompak": GoTo 100 Else GoTo
80
80  If Lamdab <= Lamdarb Then Kategori = "Badan tidak kompak": GoTo 100 Else
GoTo 90
90  Kategori = "Badan langsing": GoTo 100
100 ActiveCell = Kategori
  ActiveCell.Offset(1, 0).Activate
  Next n3
  Range("AR8").Activate
  For n4 = 1 To 27
  Mn = ActiveCell
  Mnbk = ActiveCell.Offset(0, -3)
  Mnbtk = ActiveCell.Offset(0, -2)
  Kategori = ActiveCell.Offset(0, -1)
  If Kategori = "Badan kompak" Then Mn = Mnbk: GoTo 130 Else GoTo 110
110 If Kategori = "Badan tidak kompak" Then Mn = Mnbtk: GoTo 130 Else GoTo
120
120 Mn = 0: GoTo 130
130 ActiveCell = Mn
  ActiveCell.Offset(1, 0).Activate
```

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    Next n4
End Sub
Public Sub MenentukanMntpl()
    Lembar1.Activate
    Lembar1.Range("AT8").Select
    ActiveCell.FormulaR1C1 = "=RC[-44]"
    Selection.AutoFill Destination:=Range("AT8:AT34"), Type:=xlFillDefault
    Range("AT8:AT34").Select
    Range("AU8").Select
    ActiveCell.FormulaR1C1 = "=RC[-44]"
    Selection.AutoFill Destination:=Range("AU8:AU34"), Type:=xlFillDefault
    Range("AU8:AU34").Select
    Range("AV8").Select
    ActiveCell.FormulaR1C1 = "=RC[-44]"
    Selection.AutoFill Destination:=Range("AV8:AV34"), Type:=xlFillDefault
    Range("AV8:AV34").Select
    Range("AW8").Select
    ActiveCell.FormulaR1C1 = "=RC[-31]"
    Selection.AutoFill Destination:=Range("AW8:AW34"), Type:=xlFillDefault
    Range("AW8:AW34").Select
    Range("AX8").Select
    ActiveCell.FormulaR1C1 = "=1.76*RC[-40]*((RC[-35]/RC[-33])^0.5)"
    Selection.AutoFill Destination:=Range("AX8:AX34"), Type:=xlFillDefault
    Range("AX8:AX34").Select
    Range("AY8").Select
    ActiveCell.FormulaR1C1 = _
        "=(RC[-41]*(((PI())/RC[-43])*(((RC[-36]*RC[-35]*RC[-39]*RC[-
46])/2)^0.5))*((1+((1+((((4*RC[-38])/RC[-42])*((RC[-43]/(RC[-35]*RC[-
39]))^2))*((RC[-34]-RC[-37])^2)))^0.5))^0.5))/(RC[-34]-RC[-37])"
    Selection.AutoFill Destination:=Range("AY8:AY34"), Type:=xlFillDefault
    Range("AY8:AY34").Select
    Range("AZ8").Select
    ActiveCell.FormulaR1C1 = "=RC[-41]*RC[-35]"
    Selection.AutoFill Destination:=Range("AZ8:AZ34"), Type:=xlFillDefault
    Range("AZ8:AZ34").Select
    Range("BA8").Select
    ActiveCell.FormulaR1C1 = "=RC[-42]*RC[-36]"
    Selection.AutoFill Destination:=Range("BA8:BA34"), Type:=xlFillDefault
    Range("BA8:BA34").Select
    Range("BB8").Select
    ActiveCell.FormulaR1C1 = _
        "=RC[-34]*((RC[-43]*RC[-37])-(((RC[-43]*RC[-37])-(RC[-46]*(RC[-37]-
RC[-40])))*((RC[-5]-RC[-4])/(RC[-3]-RC[-4]))))"
    Selection.AutoFill Destination:=Range("BB8:BB34"), Type:=xlFillDefault
    Range("BB8:BB34").Select
    Range("BC8").Select
```

```
    ActiveCell.FormulaR1C1 =
        "=((PI())/RC[-37])*(((((((PI())*RC[-40])/RC[-37])^2)*(RC[-42]*RC[-
46]))+(RC[-40]*RC[-46]*RC[-39]*RC[-43]))^0.5)"
    Selection.AutoFill Destination:=Range("BC8:BC34"), Type:=xlFillDefault
    Range("BC8:BC34").Select
    Range("BD8").Select
    Range("BD8").Activate
    For n5 = 1 To 27
    Lb = ActiveCell.Offset(0, -7)
    Lp = ActiveCell.Offset(0, -6)
    Lr = ActiveCell.Offset(0, -5)
    Kategori = ActiveCell
    If Lb <= Lp Then Kategori = "Bentang pendek": GoTo 160 Else GoTo 140
140 If Lb <= Lr Then Kategori = "Bentang menengah": GoTo 160 Else GoTo 150
150 Kategori = "Bentang panjang": GoTo 160
160 ActiveCell = Kategori
    ActiveCell.Offset(1, 0).Activate
    Next n5
    Lembar1.Activate
    Lembar1.Range("BE8").Activate
    For n6 = 1 To 27
    Mn = ActiveCell
    Mp = ActiveCell.Offset(0, -5)
    Mnpk = ActiveCell.Offset(0, -4)
    Mnm = ActiveCell.Offset(0, -3)
    Mnpg = ActiveCell.Offset(0, -2)
    Kategori = ActiveCell.Offset(0, -1)
    If Kategori = "Bentang pendek" Then Mn = Mnpk: GoTo 220 Else GoTo 170
170 If Kategori = "Bentang menengah" Then GoTo 180 Else GoTo 200
180 If Mnm <= Mp Then Mn = Mnm: GoTo 220 Else GoTo 190
190 Mn = Mp: GoTo 220
200 If Mnpg <= Mp Then Mn = Mnpg: GoTo 220 Else GoTo 210
210 Mn = Mp: GoTo 220
220 ActiveCell = Mn
    ActiveCell.Offset(1, 0).Activate
    Next n6
End Sub
Public Sub MenentukanMnpakai()
    Lembar1.Activate
    Lembar1.Range("BG8").Select
    ActiveCell.FormulaR1C1 = "=RC[-57]"
    Selection.AutoFill Destination:=Range("BG8:BG34"), Type:=xlFillDefault
    Range("BG8:BG34").Select
    Range("BH8").Select
    ActiveCell.FormulaR1C1 = "=RC[-57]"
    Selection.AutoFill Destination:=Range("BH8:BH34"), Type:=xlFillDefault
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Range("BH8:BH34").Select
Range("BI8").Select
ActiveCell.FormulaR1C1 = "=RC[-57]"
Selection.AutoFill Destination:=Range("BI8:BI34"), Type:=xlFillDefault
Range("BI8:BI34").Select
Range("BJ8").Select
ActiveCell.FormulaR1C1 = "=RC[-29]"
Selection.AutoFill Destination:=Range("BJ8:BJ34"), Type:=xlFillDefault
Range("BJ8:BJ34").Select
Range("BK8").Select
ActiveCell.FormulaR1C1 = "=RC[-19]"
Selection.AutoFill Destination:=Range("BK8:BK34"), Type:=xlFillDefault
Range("BK8:BK34").Select
Range("BL8").Select
ActiveCell.FormulaR1C1 = "=RC[-7]"
Selection.AutoFill Destination:=Range("BL8:BL34"), Type:=xlFillDefault
Range("BL8:BL34").Select
Range("BM8").Select
Range("BM8").Activate
For n7 = 1 To 27
Mntls = ActiveCell.Offset(0, -3)
Mntlb = ActiveCell.Offset(0, -2)
Mntpl = ActiveCell.Offset(0, -1)
Mnkecil = ActiveCell
If Mntls < Mntlb Then Mnkecil = Mntls Else Mnkecil = Mntlb
If Mnkecil < Mntpl Then Mnkecil = Mnkecil Else Mnkecil = Mntpl
ActiveCell = Mnkecil
ActiveCell.Offset(1, 0).Activate
Next n7
Range("BN8").Activate
For n8 = 1 To 27
Mntls = ActiveCell.Offset(0, -4)
Mntlb = ActiveCell.Offset(0, -3)
Mntpl = ActiveCell.Offset(0, -2)
Mnkecil = ActiveCell.Offset(0, -1)
Batas = ActiveCell
If Mnkecil = Mntls And Mnkecil = Mntlb And Mnkecil = Mntpl Then Batas =
"Tekuk lokal dan tekuk puntir lateral": GoTo 290 Else GoTo 230
230 If Mnkecil = Mntls And Mnkecil = Mntlb Then Batas = "Tekuk lokal": GoTo
290 Else GoTo 240
240 If Mnkecil = Mntls And Mnkecil = Mntpl Then Batas = "Tekuk lokal sayap dan
tekuk puntir lateral": GoTo 290 Else GoTo 250
250 If Mnkecil = Mntlb And Mnkecil = Mntpl Then Batas = "Tekuk lokal badan dan
tekuk puntir lateral": GoTo 290 Else GoTo 260
260 If Mnkecil = Mntls Then Batas = "Tekuk lokal sayap": GoTo 290 Else GoTo
270
```

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270 If Mnkecil = Mntlb Then Batas = "Tekuk lokal badan": GoTo 290 Else GoTo
280
280 Batas = "Tekuk puntir lateral"
290 ActiveCell = Batas
    ActiveCell.Offset(1, 0).Activate
    Next n8
    Range("BO8").Select
    ActiveCell.FormulaR1C1 = "=RC[-35]"
    Selection.AutoFill Destination:=Range("BO8:BO34"), Type:=xlFillDefault
    Range("BO8:BO34").Select
    Range("BP8").Select
    ActiveCell.FormulaR1C1 = "=RC[-25]"
    Selection.AutoFill Destination:=Range("BP8:BP34"), Type:=xlFillDefault
    Range("BP8:BP34").Select
    Range("BQ8").Select
    ActiveCell.FormulaR1C1 = "=RC[-13]"
    Selection.AutoFill Destination:=Range("BQ8:BQ34"), Type:=xlFillDefault
    Range("BQ8:BQ34").Select
End Sub
Public Sub MengetahuiProfilBajayangAman()
    Lembar1.Activate
    Lembar1.Range("BS8").Select
    ActiveCell.FormulaR1C1 = "=RC[-69]"
    Selection.AutoFill Destination:=Range("BS8:BS34"), Type:=xlFillDefault
    Range("BS8:BS34").Select
    Range("BT8").Select
    ActiveCell.FormulaR1C1 = "=RC[-69]"
    Selection.AutoFill Destination:=Range("BT8:BT34"), Type:=xlFillDefault
    Range("BT8:BT34").Select
    Range("BU8").Select
    ActiveCell.FormulaR1C1 = "=RC[-69]"
    Selection.AutoFill Destination:=Range("BU8:BU34"), Type:=xlFillDefault
    Range("BU8:BU34").Select
    Range("BV8").Select
    ActiveCell.FormulaR1C1 = "=(0.9*RC[-9])/1000000"
    Selection.AutoFill Destination:=Range("BV8:BV34"), Type:=xlFillDefault
    Range("BV8:BV34").Select
    Range("BW8").Select
    ActiveCell.FormulaR1C1 = "=RC[-56]/1000000"
    Selection.AutoFill Destination:=Range("BW8:BW34"), Type:=xlFillDefault
    Range("BW8:BW34").Select
    Range("BX8").Select
    ActiveCell.FormulaR1C1 = "=RC[-10]"
    Selection.AutoFill Destination:=Range("BX8:BX34"), Type:=xlFillDefault
    Range("BX8.BX34").Select
    Range("BY8").Select
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```
    ActiveCell.FormulaR1C1 = "=RC[-10]"
    Selection.AutoFill Destination:=Range("BY8:BY34"), Type:=xlFillDefault
    Range("BY8:BY34").Select
    Range("BZ8").Select
    ActiveCell.FormulaR1C1 = "=RC[-10]"
    Selection.AutoFill Destination:=Range("BZ8:BZ34"), Type:=xlFillDefault
    Range("BZ8:BZ34").Select
    Range("CA8").Select
    ActiveCell.FormulaR1C1 = "=RC[-10]"
    Selection.AutoFill Destination:=Range("CA8:CA34"), Type:=xlFillDefault
    Range("CA8:CA34").Select
    Range("BV8").Activate
    For n9 = 1 To 27
    FMnpakai = ActiveCell
    Mu = ActiveCell.Offset(0, 1)
    If FMnpakai >= Mu Then GoTo 310 Else GoTo 300
300 ActiveCell.Offset(0, -3) = Empty
    ActiveCell.Offset(0, -2) = Empty
    ActiveCell.Offset(0, -1) = Empty
    ActiveCell = Empty
    ActiveCell.Offset(0, 1) = Empty
    ActiveCell.Offset(0, 2) = Empty
    ActiveCell.Offset(0, 3) = Empty
    ActiveCell.Offset(0, 4) = Empty
    ActiveCell.Offset(0, 5) = Empty
310 ActiveCell.Offset(1, 0).Activate
    Next n9
    Range("BS8:CA34").Select
    Selection.Copy
    Range("BS8").Select
    Selection.PasteSpecial Paste:=xlValues, Operation:=xlNone, SkipBlanks:= _
        False, Transpose:=False
    Application.CutCopyMode = False
    Selection.Sort Key1:=Range("BS8"), Order1:=xlAscending, Header:=xlGuess, _
        OrderCustom:=1, MatchCase:=False, Orientation:=xlTopToBottom
End Sub
Public Sub MengetahuiProfilBajayangAmanBerdasarkanUrutanMomen()
    Lembar1.Activate
    Lembar1.Range("BS8:BV34").Select
    Selection.Copy
    Range("CC8").Select
    Selection.PasteSpecial Paste:=xlValues, Operation:=xlNone, SkipBlanks:= _
        False, Transpose:=False
    Range("BX8:CA34").Select
    Application.CutCopyMode = False
    Selection.Copy
```

```
    Range("CG8").Select
    Selection.PasteSpecial Paste:=xlValues, Operation:=xlNone, SkipBlanks:= _
        False, Transpose:=False
    Application.CutCopyMode = False
    Range("CC8:CJ34").Select
    Selection.Sort Key1:=Range("CF8"), Order1:=xlAscending, Header:=xlGuess, _
        OrderCustom:=1, MatchCase:=False, Orientation:=xlTopToBottom
End Sub
Public Sub MengetahuiProfilBajayangAmanBerdasarkanUrutanBerat()
    Lembar1.Activate
    Lembar1.Range("CC8:CJ34").Select
    Selection.Copy
    Range("CL8").Select
    Selection.PasteSpecial Paste:=xlValues, Operation:=xlNone, SkipBlanks:= _
        False, Transpose:=False
    Application.CutCopyMode = False
    Selection.Sort Key1:=Range("CM8"), Order1:=xlAscending, Header:=xlGuess, _
        OrderCustom:=1, MatchCase:=False, Orientation:=xlTopToBottom
End Sub
Public Sub MengetahuiProfilBajayangAmanBerdasarkanUrutanTinggi()
    Lembar1.Activate
    Lembar1.Range("CL8:CS34").Select
    Selection.Copy
    Range("CU8").Select
    Selection.PasteSpecial Paste:=xlValues, Operation:=xlNone, SkipBlanks:= _
        False, Transpose:=False
    Application.CutCopyMode = False
    Selection.Sort Key1:=Range("CW8"), Order1:=xlAscending, Header:=xlGuess, _
        OrderCustom:=1, MatchCase:=False, Orientation:=xlTopToBottom
End Sub
Public Sub Menetapkan10ProfilyangEkonomis()
    Lembar1.Activate
    Lembar1.Range("CL8:CO17").Select
    Selection.Copy
    Range("HI21").Select
    Selection.PasteSpecial Paste:=xlValues, Operation:=xlNone, SkipBlanks:= _
        False, Transpose:=False
    Range("CU8:CX17").Select
    Application.CutCopyMode = False
    Selection.Copy
    Range("HO21").Select
    Selection.PasteSpecial Paste:=xlValues, Operation:=xlNone, SkipBlanks:= _
        False, Transpose:=False
    Application.CutCopyMode = False
    Range("HR31").Select
    Range("CL8:CO17").Select
```

```
    Selection.Copy
    Range("HI21").Select
    Selection.PasteSpecial Paste:=xlValues, Operation:=xlNone, SkipBlanks:= _
        False, Transpose:=False
    Range("CU8:CX17").Select
    Application.CutCopyMode = False
    Selection.Copy
    Range("HO21").Select
    Selection.PasteSpecial Paste:=xlValues, Operation:=xlNone, SkipBlanks:= _
        False, Transpose:=False
End Sub
Public Sub MenentukanKondisiSayap()
    Lembar1.Activate
    Lembar1.Range("FQ8").Select
    ActiveCell.FormulaR1C1 = "=RC[-171]"
    Selection.AutoFill Destination:=Range("FQ8:FQ34"), Type:=xlFillDefault
    Range("FQ8:FQ34").Select
    Range("FR8").Select
    ActiveCell.FormulaR1C1 = "=RC[-171]"
    Selection.AutoFill Destination:=Range("FR8:FR34"), Type:=xlFillDefault
    Range("FR8:FR34").Select
    Range("FS8").Select
    ActiveCell.FormulaR1C1 = "=RC[-171]"
    Selection.AutoFill Destination:=Range("FS8:FS34"), Type:=xlFillDefault
    Range("FS8:FS34").Select
    Range("FT8").Select
    ActiveCell.FormulaR1C1 = "=RC[-159]"
    Selection.AutoFill Destination:=Range("FT8:FT34"), Type:=xlFillDefault
    Range("FT8:FT34").Select
    Range("FU8").Select
    ActiveCell.FormulaR1C1 = "=RC[-159]"
    Selection.AutoFill Destination:=Range("FU8:FU34"), Type:=xlFillDefault
    Range("FU8:FU34").Select
    Range("FV8").Select
    ActiveCell.FormulaR1C1 = "=RC[-159]"
    Selection.AutoFill Destination:=Range("FV8:FV34"), Type:=xlFillDefault
    Range("FV8:FV34").Select
    Range("FW8").Select
    ActiveCell.FormulaR1C1 = "=RC[-159]"
    Selection.AutoFill Destination:=Range("FW8:FW34"), Type:=xlFillDefault
    Range("FW8:FW34").Select
    Range("FX8").Select
    ActiveCell.FormulaR1C1 = "=(0.9*RC[-147])/1000000"
    Selection.AutoFill Destination:=Range("FX8:FX34"), Type:=xlFillDefault
    Range("FX8:FX34").Select
    Range("FY8").Select
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    ActiveCell.FormulaR1C1 = "=RC[-3]/1000000"
    Selection.AutoFill Destination:=Range("FY8:FY34"), Type:=xlFillDefault
    Range("FY8:FY34").Select
    Range("GA8").Select
    ActiveCell.FormulaR1C1 = "=(0.9*RC[-139])/1000000"
    Selection.AutoFill Destination:=Range("GA8:GA34"), Type:=xlFillDefault
    Range("GA8:GA34").Select
    Range("GB8").Select
    ActiveCell.FormulaR1C1 = "=RC[-6]/1000000"
    Selection.AutoFill Destination:=Range("GB8:GB34"), Type:=xlFillDefault
    Range("GB8:GB34").Select
    Range("GD8").Select
    ActiveCell.FormulaR1C1 = "=(0.9*RC[-129])/1000000"
    Selection.AutoFill Destination:=Range("GD8:GD34"), Type:=xlFillDefault
    Range("GD8:GD34").Select
    Range("GE8").Select
    ActiveCell.FormulaR1C1 = "=RC[-9]/1000000"
    Selection.AutoFill Destination:=Range("GE8:GE34"), Type:=xlFillDefault
    Range("GE8:GE34").Select
    Range("FZ8").Select
    Range("FZ8").Activate
    For n19 = 1 To 27
    Kondisitls = ActiveCell
    FMntls = ActiveCell.Offset(0, -2)
    Mu = ActiveCell.Offset(0, -1)
    If FMntls >= Mu Then Kondisitls = "Aman" Else Kondisitls = "Tidak aman"
    ActiveCell = Kondisitls
    ActiveCell.Offset(1, 0).Activate
    Next n19
End Sub
Public Sub MenentukanKondisiBadan()
    Lembar1.Activate
    Lembar1.Range("GC8").Activate
    For n20 = 1 To 27
    Kondisitlb = ActiveCell
    FMntlb = ActiveCell.Offset(0, -2)
    Mu = ActiveCell.Offset(0, -1)
    If FMntlb >= Mu Then Kondisitlb = "Aman" Else Kondisitlb = "Tidak aman"
    ActiveCell = Kondisitlb
    ActiveCell.Offset(1, 0).Activate
    Next n20
End Sub
Public Sub MenentukanKondisiProfil()
    Lembar1.Activate
    Lembar1.Range("GF8").Activate
    For n21 = 1 To 27
```

```
    Kondisitpl = ActiveCell
    FMntpl = ActiveCell.Offset(0, -2)
    Mu = ActiveCell.Offset(0, -1)
    If FMntpl >= Mu Then Kondisitpl = "Aman" Else Kondisitpl = "Tidak aman"
    ActiveCell = Kondisitpl
    ActiveCell.Offset(1, 0).Activate
    Next n21
End Sub
Public Sub KesimpulanStabilitas()
    Lembar1.Activate
    Lembar1.Range("GG8").Activate
    For n22 = 1 To 27
    Kesimpulan = ActiveCell
    Kondisitls = ActiveCell.Offset(0, -7)
    Kondisitlb = ActiveCell.Offset(0, -4)
    Kondisitpl = ActiveCell.Offset(0, -1)
    If Kondisitls = "Aman" And Kondisitlb = "Aman" And Kondisitpl = "Aman" Then
Kesimpulan = "Profil dapat dipakai" Else Kesimpulan = "Profil tidak dapat dipakai"
    ActiveCell = Kesimpulan
    ActiveCell.Offset(1, 0).Activate
    Next n22
End Sub

Public Sub StabilitasProfilTerpilih()
    Lembar1.Activate
     Range("GI25:GJ34").Select
    Selection.Copy
    ActiveWindow.SmallScroll Down:=-14
    Range("GI8").Select
    Selection.PasteSpecial Paste:=xlValues, Operation:=xlNone, SkipBlanks:= _
       False, Transpose:=False
    Lembar1.Range("FQ8").Activate
    For n23 = 1 To 27
    If ActiveCell = Range("GI8") And ActiveCell.Offset(0, 1) = Range("GJ8") Then
GoTo 630 Else GoTo 640
630 Range("GK8") = ActiveCell.Offset(0, 7)
    Range("GL8") = ActiveCell.Offset(0, 9)
    Range("GM8") = ActiveCell.Offset(0, 10)
    Range("GN8") = ActiveCell.Offset(0, 12)
    Range("GO8") = ActiveCell.Offset(0, 13)
    Range("GP8") = ActiveCell.Offset(0, 15)
    Range("GQ8") = ActiveCell.Offset(0, 16)
640 ActiveCell.Offset(1, 0).Activate
    Next n23
    Range("FQ8").Activate
    For n24 = 1 To 27
```

```
   If ActiveCell = Range("GI9") And ActiveCell.Offset(0, 1) = Range("GJ9") Then
GoTo 650 Else GoTo 660
650 Range("GK9") = ActiveCell.Offset(0, 7)
   Range("GL9") = ActiveCell.Offset(0, 9)
   Range("GM9") = ActiveCell.Offset(0, 10)
   Range("GN9") = ActiveCell.Offset(0, 12)
   Range("GO9") = ActiveCell.Offset(0, 13)
   Range("GP9") = ActiveCell.Offset(0, 15)
   Range("GQ9") = ActiveCell.Offset(0, 16)
660 ActiveCell.Offset(1, 0).Activate
   Next n24
   Range("FQ8").Activate
   For n25 = 1 To 27
   If ActiveCell = Range("GI10") And ActiveCell.Offset(0, 1) = Range("GJ10")
Then GoTo 670 Else GoTo 680
670 Range("GK10") = ActiveCell.Offset(0, 7)
   Range("GL10") = ActiveCell.Offset(0, 9)
   Range("GM10") = ActiveCell.Offset(0, 10)
   Range("GN10") = ActiveCell.Offset(0, 12)
   Range("GO10") = ActiveCell.Offset(0, 13)
   Range("GP10") = ActiveCell.Offset(0, 15)
   Range("GQ10") = ActiveCell.Offset(0, 16)
680 ActiveCell.Offset(1, 0).Activate
   Next n25
   Range("FQ8").Activate
   For n26 = 1 To 27
   If ActiveCell = Range("GI11") And ActiveCell.Offset(0, 1) = Range("GJ11")
Then GoTo 690 Else GoTo 700
690 Range("GK11") = ActiveCell.Offset(0, 7)
   Range("GL11") = ActiveCell.Offset(0, 9)
   Range("GM11") = ActiveCell.Offset(0, 10)
   Range("GN11") = ActiveCell.Offset(0, 12)
   Range("GO11") = ActiveCell.Offset(0, 13)
   Range("GP11") = ActiveCell.Offset(0, 15)
   Range("GQ11") = ActiveCell.Offset(0, 16)
700 ActiveCell.Offset(1, 0).Activate
   Next n26
   Range("FQ8").Activate
   For n27 = 1 To 27
   If ActiveCell = Range("GI12") And ActiveCell.Offset(0, 1) = Range("GJ12")
Then GoTo 710 Else GoTo 720
710 Range("GK12") = ActiveCell.Offset(0, 7)
   Range("GL12") = ActiveCell.Offset(0, 9)
   Range("GM12") = ActiveCell.Offset(0, 10)
   Range("GN12") = ActiveCell.Offset(0, 12)
   Range("GO12") = ActiveCell.Offset(0, 13)
```

```
   Range("GP12") = ActiveCell.Offset(0, 15)
   Range("GQ12") = ActiveCell.Offset(0, 16)
720 ActiveCell.Offset(1, 0).Activate
   Next n27
   Range("FQ8").Activate
   For n28 = 1 To 27
   If ActiveCell = Range("GI13") And ActiveCell.Offset(0, 1) = Range("GJ13")
Then GoTo 730 Else GoTo 740
730 Range("GK13") = ActiveCell.Offset(0, 7)
   Range("GL13") = ActiveCell.Offset(0, 9)
   Range("GM13") = ActiveCell.Offset(0, 10)
   Range("GN13") = ActiveCell.Offset(0, 12)
   Range("GO13") = ActiveCell.Offset(0, 13)
   Range("GP13") = ActiveCell.Offset(0, 15)
   Range("GQ13") = ActiveCell.Offset(0, 16)
740 ActiveCell.Offset(1, 0).Activate
   Next n28
   Range("FQ8").Activate
   For n29 = 1 To 27
   If ActiveCell = Range("GI14") And ActiveCell.Offset(0, 1) = Range("GJ14")
Then GoTo 750 Else GoTo 760
750 Range("GK14") = ActiveCell.Offset(0, 7)
   Range("GL14") = ActiveCell.Offset(0, 9)
   Range("GM14") = ActiveCell.Offset(0, 10)
   Range("GN14") = ActiveCell.Offset(0, 12)
   Range("GO14") = ActiveCell.Offset(0, 13)
   Range("GP14") = ActiveCell.Offset(0, 15)
   Range("GQ14") = ActiveCell.Offset(0, 16)
760 ActiveCell.Offset(1, 0).Activate
   Next n29
   Range("FQ8").Activate
   For n30 = 1 To 27
   If ActiveCell = Range("GI15") And ActiveCell.Offset(0, 1) = Range("GJ15")
Then GoTo 770 Else GoTo 780
770 Range("GK15") = ActiveCell.Offset(0, 7)
   Range("GL15") = ActiveCell.Offset(0, 9)
   Range("GM15") = ActiveCell.Offset(0, 10)
   Range("GN15") = ActiveCell.Offset(0, 12)
   Range("GO15") = ActiveCell.Offset(0, 13)
   Range("GP15") = ActiveCell.Offset(0, 15)
   Range("GQ15") = ActiveCell.Offset(0, 16)
780 ActiveCell.Offset(1, 0).Activate
   Next n30
   Range("FQ8").Activate
   For n31 = 1 To 27
```

```
   If ActiveCell = Range("GI16") And ActiveCell.Offset(0, 1) = Range("GJ16")
Then GoTo 790 Else GoTo 800
790 Range("GK16") = ActiveCell.Offset(0, 7)
   Range("GL16") = ActiveCell.Offset(0, 9)
   Range("GM16") = ActiveCell.Offset(0, 10)
   Range("GN16") = ActiveCell.Offset(0, 12)
   Range("GO16") = ActiveCell.Offset(0, 13)
   Range("GP16") = ActiveCell.Offset(0, 15)
   Range("GQ16") = ActiveCell.Offset(0, 16)
800 ActiveCell.Offset(1, 0).Activate
   Next n31
   Range("FQ8").Activate
   For n32 = 1 To 27
   If ActiveCell = Range("GI17") And ActiveCell.Offset(0, 1) = Range("GJ17")
Then GoTo 810 Else GoTo 820
810 Range("GK17") = ActiveCell.Offset(0, 7)
   Range("GL17") = ActiveCell.Offset(0, 9)
   Range("GM17") = ActiveCell.Offset(0, 10)
   Range("GN17") = ActiveCell.Offset(0, 12)
   Range("GO17") = ActiveCell.Offset(0, 13)
   Range("GP17") = ActiveCell.Offset(0, 15)
   Range("GQ17") = ActiveCell.Offset(0, 16)
820 ActiveCell.Offset(1, 0).Activate
   Next n32
   Range("GI8:GQ17").Select
   Selection.Copy
   Range("HW21").Select
   Selection.PasteSpecial Paste:=xlValues, Operation:=xlNone, SkipBlanks:= _
      False, Transpose:=False
   Application.CutCopyMode = False
End Sub
Public Sub MenetapkanKuatMomenNominalTerfaktorTiapProfil()
   Lembar1.Activate
   Lembar1.Range("GT8").Select
   ActiveCell.FormulaR1C1 = "=RC[-200]"
   Selection.AutoFill Destination:=Range("GT8:GT34"), Type:=xlFillDefault
   Range("GT8:GT34").Select
   Range("GU8").Select
   ActiveCell.FormulaR1C1 = "=RC[-200]"
   Selection.AutoFill Destination:=Range("GU8:GU34"), Type:=xlFillDefault
   Range("GU8:GU34").Select
   Range("GV8").Select
   ActiveCell.FormulaR1C1 = "=RC[-187]"
   Selection.AutoFill Destination:=Range("GV8:GV34"), Type:=xlFillDefault
   Range("GV8:GV34").Select
   Range("GW8").Select
```

```
    ActiveCell.FormulaR1C1 = "=RC[-187]"
    Selection.AutoFill Destination:=Range("GW8:GW34"), Type:=xlFillDefault
    Range("GW8:GW34").Select
    Range("GX8").Select
    ActiveCell.FormulaR1C1 = "=RC[-186]"
    Selection.AutoFill Destination:=Range("GX8:GX34"), Type:=xlFillDefault
    Range("GX8:GX34").Select
    Range("GY8").Select
    ActiveCell.FormulaR1C1 = "=0.9*RC[-142]"
    Selection.AutoFill Destination:=Range("GY8:GY34"), Type:=xlFillDefault
    Range("GY8:GY34").Select
    Range("GZ8").Select
    ActiveCell.FormulaR1C1 = "=RC[-142]"
    Selection.AutoFill Destination:=Range("GZ8:GZ34"), Type:=xlFillDefault
    Range("GZ8:GZ34").Select
    Range("HA8").Select
    ActiveCell.FormulaR1C1 = "=RC[-142]"
    Selection.AutoFill Destination:=Range("HA8:HA34"), Type:=xlFillDefault
    Range("HA8:HA34").Select
    Range("HB8").Select
    ActiveCell.FormulaR1C1 = "=RC[-142]"
    Selection.AutoFill Destination:=Range("HB8:HB34"), Type:=xlFillDefault
    Range("HB8:HB34").Select
    Range("HC8").Select
    ActiveCell.FormulaR1C1 = "=RC[-142]"
    Selection.AutoFill Destination:=Range("HC8:HC34"), Type:=xlFillDefault
    Range("HC8:HC34").Select
    Range("GT8:GU34").Select
    Selection.Copy
    Range("IJ19").Select
    Selection.PasteSpecial Paste:=xlValues, Operation:=xlNone, SkipBlanks:= _
        False, Transpose:=False
    Range("GY8:HC34").Select
    Application.CutCopyMode = False
    Selection.Copy
    Range("IL19").Select
    Selection.PasteSpecial Paste:=xlValues, Operation:=xlNone, SkipBlanks:= _
        False, Transpose:=False
    Application.CutCopyMode = False
    Range("IJ19").Select
End Sub
Public Sub MenggambarGrafik()
'Data properties penampang dan data masukan profil
    Lembar1.Activate
    Lembar1.Range("B8").Activate
    For n10 = 1 To 27
```

```
    Profil = ActiveCell
    Berat = ActiveCell.Offset(0, 1)
    If Profil = Range("DE8") And Berat = Range("DF8") Then GoTo 320 Else GoTo
330
320  Lembar1.Range("DG8") = ActiveCell.Offset(0, 2)
    Lembar1.Range("DH8") = ActiveCell.Offset(0, 3)
    Lembar1.Range("DI8") = ActiveCell.Offset(0, 4)
    Lembar1.Range("DJ8") = ActiveCell.Offset(0, 5)
    Lembar1.Range("DK8") = ActiveCell.Offset(0, 6)
    Lembar1.Range("DL8") = ActiveCell.Offset(0, 7)
    Lembar1.Range("DM8") = ActiveCell.Offset(0, 8)
    Lembar1.Range("DN8") = ActiveCell.Offset(0, 9)
    Lembar1.Range("DO8") = ActiveCell.Offset(0, 10)
    Lembar1.Range("DP8") = ActiveCell.Offset(0, 11)
    Lembar1.Range("DQ8") = ActiveCell.Offset(0, 12)
    Lembar1.Range("DR8") = ActiveCell.Offset(0, 13)
    Lembar1.Range("DS8") = ActiveCell.Offset(0, 14)
    Lembar1.Range("DT8") = ActiveCell.Offset(0, 15)
    Lembar1.Range("DV8") = ActiveCell.Offset(0, 17)
    Lembar1.Range("DW8") = ActiveCell.Offset(0, 18)
    Lembar1.Range("DU39") = ActiveCell.Offset(0, 47)
    Lembar1.Range("DU40") = ActiveCell.Offset(0, 48)
    Lembar1.Range("DU41") = ActiveCell.Offset(0, 49)
330  ActiveCell.Offset(1, 0).Activate
    Next n10
    Range("DG8").Select
    Selection.AutoFill Destination:=Range("DG8:DG41"), Type:=xlFillDefault
    Range("DG8:DG41").Select
    Range("DH8").Select
    Selection.AutoFill Destination:=Range("DH8:DH41"), Type:=xlFillDefault
    Range("DH8:DH41").Select
    Range("DI8").Select
    Selection.AutoFill Destination:=Range("DI8:DI41"), Type:=xlFillDefault
    Range("DI8:DI41").Select
    Range("DJ8").Select
    Selection.AutoFill Destination:=Range("DJ8:DJ41"), Type:=xlFillDefault
    Range("DJ8:DJ41").Select
    Range("DK8").Select
    Selection.AutoFill Destination:=Range("DK8:DK41"), Type:=xlFillDefault
    Range("DK8:DK41").Select
    Range("DL8").Select
    Selection.AutoFill Destination:=Range("DL8:DL41"), Type:=xlFillDefault
    Range("DL8:DL41").Select
    Range("DM8").Select
    Selection.AutoFill Destination:=Range("DM8:DM41"), Type:=xlFillDefault
    Range("DM8:DM41").Select
```

```
    Range("DN8").Select
    Selection.AutoFill Destination:=Range("DN8:DN41"), Type:=xlFillDefault
    Range("DN8:DN41").Select
    Range("DO8").Select
    Selection.AutoFill Destination:=Range("DO8:DO41"), Type:=xlFillDefault
    Range("DO8:DO41").Select
    Range("DP8").Select
    Selection.AutoFill Destination:=Range("DP8:DP41"), Type:=xlFillDefault
    Range("DP8:DP41").Select
    Range("DQ8").Select
    Selection.AutoFill Destination:=Range("DQ8:DQ41"), Type:=xlFillDefault
    Range("DQ8:DQ41").Select
    Range("DR8").Select
    Selection.AutoFill Destination:=Range("DR8:DR41"), Type:=xlFillDefault
    Range("DR8:DR41").Select
    Range("DS8").Select
    Selection.AutoFill Destination:=Range("DS8:DS41"), Type:=xlFillDefault
    Range("DS8:DS41").Select
    Range("DT8").Select
    Selection.AutoFill Destination:=Range("DT8:DT41"), Type:=xlFillDefault
    Range("DT8:DT41").Select
    Range("DU8").Select
    ActiveCell.FormulaR1C1 = "=0"
    Range("DU9").Select
    ActiveCell.FormulaR1C1 = "=R[-1]C+1000"
    Selection.AutoFill Destination:=Range("DU9:DU38"), Type:=xlFillDefault
    Range("DU9:DU38").Select
    Range("DV8").Select
    Selection.AutoFill Destination:=Range("DV8:DV41"), Type:=xlFillDefault
    Range("DV8:DV41").Select
    Range("DW8").Select
    Selection.AutoFill Destination:=Range("DW8:DW41"), Type:=xlFillDefault
    Range("DW8:DW41").Select
'Kuat momen nominal Mn tiap profil berdasarkan stabilitas tekuk lokal sayap ( Mntls
)
    Lembar1.Activate
    Range("DX8").Select
    ActiveCell.FormulaR1C1 = "=RC[-15]"
    Range("DX9").Select
    ActiveCell.FormulaR1C1 = "=R[-1]C"
    Selection.AutoFill Destination:=Range("DX9:DX41"), Type:=xlFillDefault
    Range("DX9:DX41").Select
    Range("DY8").Select
    ActiveCell.FormulaR1C1 = "=170/(RC[-5]^0.5)"
    Selection.AutoFill Destination:=Range("DY8:DY41"), Type:=xlFillDefault
    Range("DY8:DY41").Select
```

```
    Range("DZ8").Select
    Application.CutCopyMode = False
    ActiveCell.FormulaR1C1 = "=370/((RC[-6]-RC[-9])^0.5)"
    Selection.AutoFill Destination:=Range("DZ8:DZ41"), Type:=xlFillDefault
    Range("DZ8:DZ41").Select
    Range("EA8").Select
    ActiveCell.FormulaR1C1 = "=RC[-13]*RC[-7]"
    Selection.AutoFill Destination:=Range("EA8:EA41"), Type:=xlFillDefault
    Range("EA8:EA41").Select
    Range("EB8").Select
    ActiveCell.FormulaR1C1 = "=RC[-14]*RC[-8]"
    Range("EB8").Select
    Selection.AutoFill Destination:=Range("EB8:EB41"), Type:=xlFillDefault
    Range("EB8:EB41").Select
    Range("EC8").Select
    ActiveCell.FormulaR1C1 = _
      "=(RC[-15]*RC[-9])-(((RC[-15]*RC[-9])-(RC[-18]*(RC[-9]-RC[-12])))*((RC[-
5]-RC[-4])/(RC[-3]-RC[-4])))"
    Selection.AutoFill Destination:=Range("EC8:EC41"), Type:=xlFillDefault
    Range("EC8:EC41").Select
    Range("ED8").Select
    ActiveCell.FormulaR1C1 = _
      "=((PI())/RC[-9])*(((((((PI())*RC[-12])/RC[-9])^2)*(RC[-14]*RC[-18]))+(RC[-
12]*RC[-18]*RC[-11]*RC[-15]))^0.5)"
    Selection.AutoFill Destination:=Range("ED8:ED41"), Type:=xlFillDefault
    Range("ED8:ED41").Select
    Lembar1.Range("EE8").Activate
    For n11 = 1 To 34
    Lamdas = ActiveCell.Offset(0, -7)
    Lamdaps = ActiveCell.Offset(0, -6)
    Lamdars = ActiveCell.Offset(0, -5)
    Kategori = ActiveCell
    If Lamdas <= Lamdaps Then Kategori = "Sayap kompak": GoTo 360 Else GoTo
340
340  If Lamdas <= Lamdars Then Kategori = "Sayap tidak kompak": GoTo 360 Else
GoTo 350
350  Kategori = "Sayap langsing": GoTo 360
360  ActiveCell = Kategori
    ActiveCell.Offset(1, 0).Activate
    Next n11
    Lembar1.Range("EF8").Activate
    For n12 = 1 To 34
    Mn = ActiveCell
    Mp = ActiveCell.Offset(0, -5)
    Mnsk = ActiveCell.Offset(0, -4)
    Mnstk = ActiveCell.Offset(0, -3)
```

```
    Mnsl = ActiveCell.Offset(0, -2)
    Kategori = ActiveCell.Offset(0, -1)
    If Kategori = "Sayap kompak" Then Mn = Mnsk: GoTo 400 Else GoTo 370
370  If Kategori = "Sayap tidak kompak" Then Mn = Mnstk: GoTo 400 Else GoTo
380
380  If Mnsl <= Mp Then Mn = Mnsl: GoTo 400 Else GoTo 390
390  Mn = Mp
400  ActiveCell = Mn
    ActiveCell.Offset(1, 0).Activate
    Next n12
'Kuat momen nominal Mn tiap profil berdasarkan stabilitas tekuk lokal badan (
Mntlb )
    Range("EG8").Select
    ActiveCell.FormulaR1C1 = "=RC[-23]"
    Selection.AutoFill Destination:=Range("EG8:EG41"), Type:=xlFillDefault
    Range("EG8:EG41").Select
    Range("EH8").Select
    ActiveCell.FormulaR1C1 = "=1680/(RC[-14]^0.5)"
    Selection.AutoFill Destination:=Range("EH8:EH41"), Type:=xlFillDefault
    Range("EH8:EH41").Select
    Range("EI8").Select
    ActiveCell.FormulaR1C1 = "=2550/(RC[-15]^0.5)"
    Selection.AutoFill Destination:=Range("EI8:EI41"), Type:=xlFillDefault
    Range("EI8:EI41").Select
    Range("EJ8").Select
    ActiveCell.FormulaR1C1 = "=RC[-22]*RC[-16]"
    Selection.AutoFill Destination:=Range("EJ8:EJ41"), Type:=xlFillDefault
    Range("EJ8:EJ41").Select
    Range("EK8").Select
    ActiveCell.FormulaR1C1 = _
      "=(RC[-23]*RC[-17])-(((RC[-23]*RC[-17])-(RC[-26]*(RC[-17]-RC[-
20])))*((RC[-4]-RC[-3])/(RC[-2]-RC[-3])))"
    Selection.AutoFill Destination:=Range("EK8:EK41"), Type:=xlFillDefault
    Range("EK8:EK41").Select
    Lembar1.Activate
    Lembar1.Range("EL8").Activate
    For n13 = 1 To 34
    Lamdab = ActiveCell.Offset(0, -5)
    Lamdapb = ActiveCell.Offset(0, -4)
    Lamdarb = ActiveCell.Offset(0, -3)
    Kategori = ActiveCell
    If Lamdab <= Lamdapb Then Kategori = "Badan kompak": GoTo 430 Else GoTo
410
410  If Lamdab <= Lamdarb Then Kategori = "Badan tidak kompak": GoTo 430 Else
GoTo 410
420  Kategori = "Badan langsing": GoTo 430
```

```
430  ActiveCell = Kategori
    ActiveCell.Offset(1, 0).Activate
    Next n13
    Lembar1.Range("EM8").Activate
    For n14 = 1 To 34
    Mn = ActiveCell
    Mnbk = ActiveCell.Offset(0, -3)
    Mnbtk = ActiveCell.Offset(0, -2)
    Kategori = ActiveCell.Offset(0, -1)
    If Kategori = "Badan kompak" Then Mn = Mnbk: GoTo 460 Else GoTo 440
440  If Kategori = "Badan tidak kompak" Then Mn = Mnbtk: GoTo 460 Else GoTo
450
450  Mn = 0: GoTo 460
460  ActiveCell = Mn
    ActiveCell.Offset(1, 0).Activate
    Next n14
'Kuat momen nominal Mn tiap profil berdasarkan stabilitas tekuk puntir lateral (
Mntpl )
    Range("EN8").Select
    ActiveCell.FormulaR1C1 = "=RC[-19]"
    Selection.AutoFill Destination:=Range("EN8:EN41"), Type:=xlFillDefault
    Range("EN8:EN41").Select
    Range("EO8").Select
    ActiveCell.FormulaR1C1 = "=1.76*RC[-28]*((RC[-23]/RC[-21])^0.5)"
    Selection.AutoFill Destination:=Range("EO8:EO41"), Type:=xlFillDefault
    Range("EO8:EO41").Select
    Range("EP8").Select
    ActiveCell.FormulaR1C1 =
      "=(RC[-29]*(((PI())/RC[-31])*(((RC[-24]*RC[-23]*RC[-27]*RC[-
34])/2)^0.5))*((1+((1+((((4*RC[-26])/RC[-30])*((RC[-31]/(RC[-23]*RC[-
27]))^2))*((RC[-22]-RC[-25])^2)))^0.5))^0.5))/(RC[-22]-RC[-25])"
    Selection.AutoFill Destination:=Range("EP8:EP41"), Type:=xlFillDefault
    Range("EP8:EP41").Select
    Range("EQ8").Select
    ActiveCell.FormulaR1C1 = "=RC[-29]*RC[-23]"
    Selection.AutoFill Destination:=Range("EQ8:EQ41"), Type:=xlFillDefault
    Range("EQ8:EQ41").Select
    Range("ER8").Select
    ActiveCell.FormulaR1C1 = "=RC[-30]*RC[-24]"
    Selection.AutoFill Destination:=Range("ER8:ER41"), Type:=xlFillDefault
    Range("ER8:ER41").Select
    Range("ES8").Select
    ActiveCell.FormulaR1C1 =
      "=RC[-22]*((RC[-31]*RC[-25])-(((RC[-31]*RC[-25])-(RC[-34]*(RC[-25]-
RC[-28])))*((RC[-5]-RC[-4])/(RC[-3]-RC[-4]))))"
    Selection.AutoFill Destination:=Range("ES8:ES41"), Type:=xlFillDefault
```

```
    Range("ES8:ES41").Select
    Range("ET8").Select
    ActiveCell.FormulaR1C1 =
      "=((PI())/RC[-6])*(((((((PI())*RC[-28])/RC[-6])^2)*(RC[-30]*RC[-34]))+(RC[-
28]*RC[-34]*RC[-27]*RC[-31]))^0.5)"
    Selection.AutoFill Destination:=Range("ET8:ET41"), Type:=xlFillDefault
    Range("ET8:ET41").Select
     Lembar1.Activate
    Lembar1.Range("EU8").Activate
    For n15 = 1 To 34
    Lb = ActiveCell.Offset(0, -7)
    Lp = ActiveCell.Offset(0, -6)
    Lr = ActiveCell.Offset(0, -5)
    Kategori = ActiveCell
    If Lb <= Lp Then Kategori = "Bentang pendek": GoTo 490 Else GoTo 470
470  If Lb <= Lr Then Kategori = "Bentang menengah": GoTo 490 Else GoTo 480
480  Kategori = "Bentang panjang": GoTo 490
490  ActiveCell = Kategori
    ActiveCell.Offset(1, 0).Activate
    Next n15
    Lembar1.Range("EV8").Activate
    For n16 = 1 To 34
    Mn = ActiveCell
    Mp = ActiveCell.Offset(0, -5)
    Mnpk = ActiveCell.Offset(0, -4)
    Mnm = ActiveCell.Offset(0, -3)
    Mnpg = ActiveCell.Offset(0, -2)
    Kategori = ActiveCell.Offset(0, -1)
    If Kategori = "Bentang pendek" Then Mn = Mnpk: GoTo 550 Else GoTo 500
500  If Kategori = "Bentang menengah" Then GoTo 510 Else GoTo 530
510  If Mnm <= Mp Then Mn = Mnm: GoTo 550 Else GoTo 520
520  Mn = Mp: GoTo 550
530  If Mnpg <= Mp Then Mn = Mnpg: GoTo 550 Else GoTo 540
540  Mn = Mp: GoTo 550
550  ActiveCell = Mn
    ActiveCell.Offset(1, 0).Activate
    Next n16
'Kuat momen nominal yang menentukan (Mnpakai), yaitu Mn terkecil diantara
Mntls, Mntlb dan Mntpl
    Range("EW8").Select
    ActiveCell.FormulaR1C1 = "=RC[-17]"
    Selection.AutoFill Destination:=Range("EW8:EW41"), Type:=xlFillDefault
    Range("EW8:EW41").Select
    Range("EX8").Select
    ActiveCell.FormulaR1C1 = "=RC[-11]"
    Selection.AutoFill Destination:=Range("EX8:EX41"), Type:=xlFillDefault
```

```
    Range("EX8:EX41").Select
    Range("EY8").Select
    ActiveCell.FormulaR1C1 = "=RC[-3]"
    Selection.AutoFill Destination:=Range("EY8:EY41"), Type:=xlFillDefault
    Range("EY8:EY41").Select
    Lembar1.Range("EZ8").Activate
    For n17 = 1 To 34
    Mntls = ActiveCell.Offset(0, -3)
    Mntlb = ActiveCell.Offset(0, -2)
    Mntpl = ActiveCell.Offset(0, -1)
    Mnkecil = ActiveCell
    If Mntls <= Mntlb Then Mnkecil = Mntls Else Mnkecil = Mntlb_
    If Mnkecil < Mntpl Then Mnkecil = Mnkecil Else Mnkecil = Mntpl
    ActiveCell = Mnkecil
    ActiveCell.Offset(1, 0).Activate
    Next n17
    Lembar1.Range("FA8").Activate
    For n18 = 1 To 34
    Mntls = ActiveCell.Offset(0, -4)
    Mntlb = ActiveCell.Offset(0, -3)
    Mntpl = ActiveCell.Offset(0, -2)
    Mnkecil = ActiveCell.Offset(0, -1)
    Batas = ActiveCell
    If Mnkecil = Mntls And Mnkecil = Mntlb And Mnkecil = Mntpl Then Batas =
"Tekuk lokal dan tekuk puntir lateral": GoTo 620 Else GoTo 560
560  If Mnkecil = Mntls And Mnkecil = Mntlb Then Batas = "Tekuk lokal": GoTo
620 Else GoTo 570
570  If Mnkecil = Mntls And Mnkecil = Mntpl Then Batas = "Tekuk lokal sayap dan
tekuk puntir lateral": GoTo 620 Else GoTo 580
580  If Mnkecil = Mntlb And Mnkecil = Mntpl Then Batas = "Tekuk lokal badan dan
tekuk puntir lateral": GoTo 620 Else GoTo 590
590  If Mnkecil = Mntls Then Batas = "Tekuk lokal sayap": GoTo 620 Else GoTo
600
600  If Mnkecil = Mntlb Then Batas = "Tekuk lokal badan": GoTo 620 Else GoTo
610
610  Batas = "Tekuk puntir lateral"
620  ActiveCell = Batas
    ActiveCell.Offset(1, 0).Activate
    Next n18
    Lembar1.Activate
    Lembar1.Range("FB8").Select
    ActiveCell.FormulaR1C1 = "=RC[-23]"
    Selection.AutoFill Destination:=Range("FB8:FB41"), Type:=xlFillDefault
    Range("FB8:FB41").Select
    Range("FC8").Select
    ActiveCell.FormulaR1C1 = "=RC[-17]"
```

```
Selection.AutoFill Destination:=Range("FC8:FC41"), Type:=xlFillDefault
Range("FC8:FC41").Select
Range("FD8").Select
ActiveCell.FormulaR1C1 = "=RC[-9]"
Selection.AutoFill Destination:=Range("FD8:FD41"), Type:=xlFillDefault
Range("FD8:FD41").Select
Range("DE8").Select
Range("FF8").Select
ActiveCell.FormulaR1C1 = "=RC[-18]"
Selection.AutoFill Destination:=Range("FF8:FF41"), Type:=xlFillDefault
Range("FF8:FF41").Select
Range("FG8").Select
ActiveCell.FormulaR1C1 = "=RC[-7]"
Selection.AutoFill Destination:=Range("FG8:FG41"), Type:=xlFillDefault
Range("FG8:FG41").Select
Range("FH8").Select
ActiveCell.FormulaR1C1 = "Lb horizontal"
Range("FH9").Select
ActiveCell.FormulaR1C1 = "=0"
Range("FH10").Select
ActiveCell.FormulaR1C1 = "=R[29]C[-2]"
Range("FI9").Select
ActiveCell.FormulaR1C1 = "=R[30]C[-2]"
Range("FI10").Select
ActiveCell.FormulaR1C1 = "=R[-1]C"
Range("FH11").Select
ActiveCell.FormulaR1C1 = "Lbvertikal"
Range("FH12").Select
ActiveCell.FormulaR1C1 = "=R[-2]C"
Range("FH13").Select
ActiveCell.FormulaR1C1 = "=R[-1]C"
Range("FI12").Select
ActiveCell.FormulaR1C1 = "=0"
Range("FI13").Select
ActiveCell.FormulaR1C1 = "=R[-3]C"
Range("FH11").Select
ActiveCell.FormulaR1C1 = "Lb vertikal"
Range("FH14").Select
ActiveCell.FormulaR1C1 = "Lp horizuontal"
Range("FH14").Select
ActiveCell.FormulaR1C1 = "Lp horizontal"
Range("FH15").Select
ActiveCell.FormulaR1C1 = "=0"
Range("FH16").Select
ActiveCell.FormulaR1C1 = "=R[24]C[-2]"
Range("FI15").Select
```

```
ActiveCell.FormulaR1C1 = "=R[25]C[-2]"
Range("FI16").Select
ActiveCell.FormulaR1C1 = "=R[-1]C"
Range("FH17").Select
ActiveCell.FormulaR1C1 = "Lp vertikal"
Range("FH18").Select
ActiveCell.FormulaR1C1 = "=R[-2]C"
Range("FH19").Select
ActiveCell.FormulaR1C1 = "=R[-1]C"
Range("FI18").Select
ActiveCell.FormulaR1C1 = "=0"
Range("FI19").Select
ActiveCell.FormulaR1C1 = "=R[-3]C"
Range("FH20").Select
ActiveCell.FormulaR1C1 = "Lr horizontal"
Range("FH21").Select
ActiveCell.FormulaR1C1 = "=0"
Range("FH22").Select
ActiveCell.FormulaR1C1 = "=R[19]C[-2]"
Range("FI21").Select
ActiveCell.FormulaR1C1 = "=R[20]C[-2]"
Range("FI22").Select
ActiveCell.FormulaR1C1 = "=R[-1]C"
Range("FH23").Select
ActiveCell.FormulaR1C1 = "Lr vertikal"
Range("FH24").Select
ActiveCell.FormulaR1C1 = "=R[-2]C"
Range("FH25").Select
ActiveCell.FormulaR1C1 = "=R[-1]C"
Range("FI24").Select
ActiveCell.FormulaR1C1 = "=0"
Range("FI25").Select
ActiveCell.FormulaR1C1 = "=R[-3]C"
Range("FF8:FI41").Select
With Selection
  .HorizontalAlignment = xlLeft
  .VerticalAlignment = xlBottom
  .WrapText = False
  .Orientation = 0
  .AddIndent = False
  .IndentLevel = 0
  .ShrinkToFit = False
  .MergeCells = False
End With
Range("FF8:FG41").Select
Selection.Copy
```

```
Range("FF8").Select
Selection.PasteSpecial Paste:=xlValues, Operation:=xlNone, SkipBlanks:= _
  False, Transpose:=False
Application.CutCopyMode = False
Range("FH8:FI25").Select
Selection.Copy
Range("FH8").Select
Selection.PasteSpecial Paste:=xlValues, Operation:=xlNone, SkipBlanks:= _
  False, Transpose:=False
Application.CutCopyMode = False
Range("FF8:FG41").Select
Selection.Sort Key1:=Range("FF8"), Order1:=xlAscending, Header:=xlGuess, _
  OrderCustom:=1, MatchCase:=False, Orientation:=xlTopToBottom
Range("FJ8").Select
Range("FK8").Select
ActiveCell.FormulaR1C1 = "=RC[-5]/1000"
Selection.AutoFill Destination:=Range("FK8:FK41"), Type:=xlFillDefault
Range("FK8:FK41").Select
Range("FL8").Select
ActiveCell.FormulaR1C1 = "=RC[-5]/1000000"
Selection.AutoFill Destination:=Range("FL8:FL41"), Type:=xlFillDefault
Range("FL8:FL41").Select
Range("FM8").Select
ActiveCell.FormulaR1C1 = "=RC[-5]"
Range("FM9").Select
ActiveCell.FormulaR1C1 = "=RC[-5]/1000"
Selection.AutoFill Destination:=Range("FM9:FM10"), Type:=xlFillDefault
Range("FM9:FM10").Select
Range("FM11").Select
ActiveCell.FormulaR1C1 = "=RC[-5]"
Range("FM12").Select
ActiveCell.FormulaR1C1 = "=RC[-5]/1000"
Selection.AutoFill Destination:=Range("FM12:FM13"), Type:=xlFillDefault
Range("FM12:FM13").Select
Range("FM14").Select
ActiveCell.FormulaR1C1 = "=RC[-5]"
Range("FM15").Select
ActiveCell.FormulaR1C1 = "=RC[-5]/1000"
Selection.AutoFill Destination:=Range("FM15:FM16"), Type:=xlFillDefault
Range("FM15:FM16").Select
Range("FM17").Select
ActiveCell.FormulaR1C1 = "=RC[-5]"
Range("FM18").Select
ActiveCell.FormulaR1C1 = "=RC[-5]/1000"
Selection.AutoFill Destination:=Range("FM18:FM19"), Type:=xlFillDefault
Range("FM18:FM19").Select
```

```
    Range("FM20").Select
    ActiveCell.FormulaR1C1 = "=RC[-5]"
    Range("FM21").Select
    ActiveCell.FormulaR1C1 = "=RC[-5]/1000"
    Selection.AutoFill Destination:=Range("FM21:FM22"), Type:=xlFillDefault
    Range("FM21:FM22").Select
    Range("FM23").Select
    ActiveCell.FormulaR1C1 = "=RC[-5]"
    Range("FM24").Select
    ActiveCell.FormulaR1C1 = "=RC[-5]/1000"
    Selection.AutoFill Destination:=Range("FM24:FM25"), Type:=xlFillDefault
    Range("FM24:FM25").Select
    Range("FN9").Select
    ActiveCell.FormulaR1C1 = "=RC[-5]/1000000"
    Selection.AutoFill Destination:=Range("FN9:FN10"), Type:=xlFillDefault
    Range("FN9:FN10").Select
    Range("FN12").Select
    ActiveCell.FormulaR1C1 = "=RC[-5]/1000000"
    Selection.AutoFill Destination:=Range("FN12:FN13"), Type:=xlFillDefault
    Range("FN12:FN13").Select
    Range("FN15").Select
    ActiveCell.FormulaR1C1 = "=RC[-5]/1000000"
    Range("FN15").Select
    Selection.AutoFill Destination:=Range("FN15:FN16"), Type:=xlFillDefault
    Range("FN15:FN16").Select
    Range("FN18").Select
    ActiveCell.FormulaR1C1 = "=RC[-5]/1000000"
    Selection.AutoFill Destination:=Range("FN18:FN19"), Type:=xlFillDefault
    Range("FN18:FN19").Select
    Range("FN21").Select
    ActiveCell.FormulaR1C1 = "=RC[-5]/1000000"
    Selection.AutoFill Destination:=Range("FN21:FN22"), Type:=xlFillDefault
    Range("FN21:FN22").Select
    Range("FN24").Select
    ActiveCell.FormulaR1C1 = "=RC[-5]/1000000"
    Selection.AutoFill Destination:=Range("FN24:FN25"), Type:=xlFillDefault
    Range("FN24:FN25").Select
    Range("FO4").Select
End Sub
```

Tulisan program pada lembar 2;

```
Private Sub KembaliLembar2_Click()
   Tampilan3.Show
End Sub
```

Tulisan program pada lembar 3;

```
Private Sub KembaliLembar3_Click()
   Tampilan5.Show
End Sub
```

Tulisan program pada lembar 4;

```
Private Sub KembaliLembar4_Click()
   Tampilan6.Show
End Sub
```

Tulisan program pada lembar grafik;

```
Public Sub Picture4_click()
   Tampilan4.Show
End Sub
```

Tulisan program pada Tampilan 1;

```
Private Sub Judul1_Click()
   Tampilan1.Hide
   Tampilan2.Show
End Sub

Private Sub Judul2_Click()
   Tampilan1.Hide
   Tampilan2.Show
End Sub

Private Sub Judul3_Click()
   Tampilan1.Hide
   Tampilan2.Show
End Sub

Private Sub Judul1_MouseMove(ByVal Button As Integer, ByVal Shift As Integer,
ByVal X As Single, ByVal Y As Single)
   Judul1.ForeColor = &HFF&
   Judul2.ForeColor = &H800000
   Judul3.ForeColor = &H800000
```

```
    Penyusun1.ForeColor = &H800000
    Penyusun2.ForeColor = &H800000
    Dosen1.ForeColor = &H800000
    Dosen2.ForeColor = &H800000
End Sub

Private Sub Judul2_MouseMove(ByVal Button As Integer, ByVal Shift As Integer,
ByVal X As Single, ByVal Y As Single)
    Judul1.ForeColor = &H800000
    Judul2.ForeColor = &HFF&
    Judul3.ForeColor = &H800000
    Penyusun1.ForeColor = &H800000
    Penyusun2.ForeColor = &H800000
    Dosen1.ForeColor = &H800000
    Dosen2.ForeColor = &H800000
End Sub

Private Sub Judul3_MouseMove(ByVal Button As Integer, ByVal Shift As Integer,
ByVal X As Single, ByVal Y As Single)
    Judul1.ForeColor = &H800000
    Judul2.ForeColor = &H800000
    Judul3.ForeColor = &HFF&
    Penyusun1.ForeColor = &H800000
    Penyusun2.ForeColor = &H800000
    Dosen1.ForeColor = &H800000
    Dosen2.ForeColor = &H800000
End Sub

Private Sub Penyusun1_MouseMove(ByVal Button As Integer, ByVal Shift As
Integer, ByVal X As Single, ByVal Y As Single)
    Judul1.ForeColor = &H800000
    Judul2.ForeColor = &H800000
    Judul3.ForeColor = &H800000
    Penyusun1.ForeColor = &HFF&
    Penyusun2.ForeColor = &H800000
    Dosen1.ForeColor = &H800000
    Dosen2.ForeColor = &H800000
End Sub

Private Sub Penyusun2_MouseMove(ByVal Button As Integer, ByVal Shift As
Integer, ByVal X As Single, ByVal Y As Single)
    Judul1.ForeColor = &H800000
    Judul2.ForeColor = &H800000
    Judul3.ForeColor = &H800000
    Penyusun1.ForeColor = &H800000
    Penyusun2.ForeColor = &HFF&
```

```
    Dosen1.ForeColor = &H800000
    Dosen2.ForeColor = &H800000
End Sub

Private Sub Dosen1_MouseMove(ByVal Button As Integer, ByVal Shift As Integer,
ByVal X As Single, ByVal Y As Single)
    Judul1.ForeColor = &H800000
    Judul2.ForeColor = &H800000
    Judul3.ForeColor = &H800000
    Penyusun1.ForeColor = &H800000
    Penyusun2.ForeColor = &H800000
    Dosen1.ForeColor = &HFF&
    Dosen2.ForeColor = &H800000
End Sub

Private Sub Dosen2_MouseMove(ByVal Button As Integer, ByVal Shift As Integer,
ByVal X As Single, ByVal Y As Single)
    Judul1.ForeColor = &H800000
    Judul2.ForeColor = &H800000
    Judul3.ForeColor = &H800000
    Penyusun1.ForeColor = &H800000
    Penyusun2.ForeColor = &H800000
    Dosen1.ForeColor = &H800000
    Dosen2.ForeColor = &HFF&
End Sub

Private Sub UserForm_QueryClose(Cancel As Integer, CloseMode As Integer)
    ProgramBaja.Close
End Sub
```

Tulisan program pada Tampilan 2;

```
Private Sub Judul1_Click()
    Tampilan1.Hide
    Tampilan2.Show
End Sub

Private Sub Judul2_Click()
    Tampilan1.Hide
    Tampilan2.Show
End Sub

Private Sub Judul3_Click()
    Tampilan1.Hide
    Tampilan2.Show
End Sub
```

```
Private Sub Judul1_MouseMove(ByVal Button As Integer, ByVal Shift As Integer,
ByVal X As Single, ByVal Y As Single)
   Judul1.ForeColor = &HFF&
   Judul2.ForeColor = &H800000
   Judul3.ForeColor = &H800000
   Penyusun1.ForeColor = &H800000
   Penyusun2.ForeColor = &H800000
   Dosen1.ForeColor = &H800000
   Dosen2.ForeColor = &H800000
End Sub

Private Sub Judul2_MouseMove(ByVal Button As Integer, ByVal Shift As Integer,
ByVal X As Single, ByVal Y As Single)
   Judul1.ForeColor = &H800000
   Judul2.ForeColor = &HFF&
   Judul3.ForeColor = &H800000
   Penyusun1.ForeColor = &H800000
   Penyusun2.ForeColor = &H800000
   Dosen1.ForeColor = &H800000
   Dosen2.ForeColor = &H800000
End Sub

Private Sub Judul3_MouseMove(ByVal Button As Integer, ByVal Shift As Integer,
ByVal X As Single, ByVal Y As Single)
   Judul1.ForeColor = &H800000
   Judul2.ForeColor = &H800000
   Judul3.ForeColor = &HFF&
   Penyusun1.ForeColor = &H800000
   Penyusun2.ForeColor = &H800000
   Dosen1.ForeColor = &H800000
   Dosen2.ForeColor = &H800000
End Sub

Private Sub Penyusun1_MouseMove(ByVal Button As Integer, ByVal Shift As
Integer, ByVal X As Single, ByVal Y As Single)
   Judul1.ForeColor = &H800000
   Judul2.ForeColor = &H800000
   Judul3.ForeColor = &H800000
   Penyusun1.ForeColor = &HFF&
   Penyusun2.ForeColor = &H800000
   Dosen1.ForeColor = &H800000
   Dosen2.ForeColor = &H800000
End Sub
```

```
Private Sub Penyusun2_MouseMove(ByVal Button As Integer, ByVal Shift As
Integer, ByVal X As Single, ByVal Y As Single)
   Judul1.ForeColor = &H800000
   Judul2.ForeColor = &H800000
   Judul3.ForeColor = &H800000
   Penyusun1.ForeColor = &H800000
   Penyusun2.ForeColor = &HFF&
   Dosen1.ForeColor = &H800000
   Dosen2.ForeColor = &H800000
End Sub

Private Sub Dosen1_MouseMove(ByVal Button As Integer, ByVal Shift As Integer,
ByVal X As Single, ByVal Y As Single)
   Judul1.ForeColor = &H800000
   Judul2.ForeColor = &H800000
   Judul3.ForeColor = &H800000
   Penyusun1.ForeColor = &H800000
   Penyusun2.ForeColor = &H800000
   Dosen1.ForeColor = &HFF&
   Dosen2.ForeColor = &H800000
End Sub

Private Sub Dosen2_MouseMove(ByVal Button As Integer, ByVal Shift As Integer,
ByVal X As Single, ByVal Y As Single)
   Judul1.ForeColor = &H800000
   Judul2.ForeColor = &H800000
   Judul3.ForeColor = &H800000
   Penyusun1.ForeColor = &H800000
   Penyusun2.ForeColor = &H800000
   Dosen1.ForeColor = &H800000
   Dosen2.ForeColor = &HFF&
End Sub

Private Sub UserForm_QueryClose(Cancel As Integer, CloseMode As Integer)
   ProgramBaja.Close
End Sub
```

Tulisan program pada Tampilan 3;

```
Private Sub Fytampilan3_Change()
   Lembar1.Range("Q8") = Fytampilan3.Text
End Sub

Private Sub Kembalitampilan3_Click()
   Tampilan3.Hide
   Tampilan2.Show
```

```
End Sub

Private Sub Lbtampilan3_Change()
   Lembar1.Range("R8") = Lbtampilan3.Text
End Sub
Private Sub Lihathasiltampilan3_Click()
   Tampilan3.Hide
   Lembar2.Activate
End Sub

Private Sub Mutampilan3_Change()
   Lembar1.Range("S8") = Mutampilan3.Text
End Sub

Private Sub Cbtampilan3_Change()
   Lembar1.Range("T8") = Cbtampilan3.Text
End Sub

Private Sub Hitungtampilan3_Click()
   Lembar1.Menghapushitungan
   Lembar1.MenentukanMntls
   Lembar1.MenentukanMntlb
   Lembar1.MenentukanMntpl
   Lembar1.MenentukanMnpakai
   Lembar1.MengetahuiProfilBajayangAman
   Lembar1.MengetahuiProfilBajayangAmanBerdasarkanUrutanMomen
   Lembar1.MengetahuiProfilBajayangAmanBerdasarkanUrutanBerat
   Lembar1.MengetahuiProfilBajayangAmanBerdasarkanUrutanTinggi
   Lembar1.Menetapkan10ProfilyangEkonomis
End Sub

Private Sub UserForm_QueryClose(Cancel As Integer, CloseMode As Integer)
   ProgramBaja.Close
End Sub
```

Tulisan program pada Tampilan 4;

```
Private Sub Fytampilan4_Change()
   Lembar1.Range("Q8") = Fytampilan4.Text
End Sub

Private Sub Hitungtampilan4_Click()
   Lembar1.Menghapushitungan
   Lembar1.MenentukanMntls
   Lembar1.MenentukanMntlb
   Lembar1.MenentukanMntpl
```

```
    Lembar1.MenentukanMnpakai
    Lembar1.MenggambarGrafik
End Sub

Private Sub Kembalitampilan4_Click()
    Tampilan4.Hide
    Tampilan2.Show
End Sub

Private Sub Lbtampilan4_Change()
    Lembar1.Range("R8") = Lbtampilan4.Text
End Sub

Private Sub Lihathasiltampilan4_Click()
    Tampilan4.Hide
    Grafik1.Activate
End Sub

Private Sub Mutampilan4_Change()
    Lembar1.Range("S8") = Mutampilan4.Text
End Sub

Private Sub Cbtampilan4_Change()
    Lembar1.Range("T8") = Fytampilan4.Text
End Sub

Private Sub Profiltampilan4_Change()
    Lembar1.Range("DE8") = Profiltampilan4.Text
End Sub

Private Sub Berattampilan4_Change()
     Lembar1.Range("DF8") = Berattampilan4.Text
End Sub
```

Tulisan program pada Tampilan 5;

```
Private Sub B10T5_Change()
    Lembar1.Range("GJ34") = B10T5.Text
End Sub

Private Sub B1T5_Change()
    Lembar1.Range("GJ25") = B1T5.Text
End Sub

Private Sub B2T5_Change()
    Lembar1.Range("GJ26") = B2T5.Text
```

```
End Sub

Private Sub B3T5_Change()
   Lembar1.Range("GJ27") = B3T5.Text
End Sub

Private Sub B4T5_Change()
   Lembar1.Range("GJ28") = B4T5.Text
End Sub

Private Sub B5T5_Change()
   Lembar1.Range("GJ29") = B5T5.Text
End Sub

Private Sub B6T5_Change()
   Lembar1.Range("GJ30") = B6T5.Text
End Sub

Private Sub B7T5_Change()
   Lembar1.Range("GJ31") = B7T5.Text
End Sub

Private Sub B8T5_Change()
    Lembar1.Range("GJ32") = B8T5.Text
End Sub

Private Sub B9T5_Change()
   Lembar1.Range("GJ33") = B9T5.Text
End Sub

Private Sub Kembalitampilan5_Click()
   Tampilan5.Hide
   Tampilan2.Show
End Sub

Private Sub Lihathasiltampilan5_Click()
   Tampilan5.Hide
   Lembar3.Activate
End Sub

Private Sub Fytampilan5_Change()
   Lembar1.Range("Q8") = Fytampilan5.Text
End Sub

Private Sub Lbtampilan5_Change()
   Lembar1.Range("R8") = Lbtampilan5.Text
```

```
End Sub

Private Sub Mutampilan5_Change()
   Lembar1.Range("S8") = Mutampilan5.Text
End Sub

Private Sub Cbtampilan5_Change()
   Lembar1.Range("T8") = Cbtampilan5.Text
End Sub

Private Sub P10T5_Change()
   Lembar1.Range("GI34") = P10T5.Text
End Sub

Private Sub P1T5_Change()
   Lembar1.Range("GI25") = P1T5.Text
End Sub

Private Sub P2T5_Change()
   Lembar1.Range("GI26") = P2T5.Text
End Sub

Private Sub P3T5_Change()
   Lembar1.Range("GI27") = P3T5.Text
End Sub

Private Sub P4T5_Change()
   Lembar1.Range("GI28") = P4T5.Text
End Sub

Private Sub P5T5_Change()
   Lembar1.Range("GI29") = P5T5.Text
End Sub

Private Sub P6T5_Change()
   Lembar1.Range("GI30") = P6T5.Text
End Sub

Private Sub P7T5_Change()
   Lembar1.Range("GI31") = P7T5.Text
End Sub

Private Sub P8T5_Change()
   Lembar1.Range("GI32") = P8T5.Text
End Sub
```

```
Private Sub P9T5_Change()
   Lembar1.Range("GI33") = P9T5.Text
End Sub

Private Sub Hitungtampilan5_Click()
   Lembar1.Menghapushitungan
   Lembar1.MenentukanMntls
   Lembar1.MenentukanMntlb
   Lembar1.MenentukanMntpl
   Lembar1.MenentukanKondisiSayap
   Lembar1.MenentukanKondisiBadan
   Lembar1.MenentukanKondisiProfil
   Lembar1.KesimpulanStabilitas
   Lembar1.StabilitasProfilTerpilih
End Sub

Private Sub UserForm_QueryClose(Cancel As Integer, CloseMode As Integer)
   ProgramBaja.Close
End Sub
```

Tulisan program pada Tampilan 6;

```
Private Sub Fytampilan6_Change()
   Lembar1.Range("Q8") = Fytampilan6.Text
End Sub

Private Sub Kembalitampilan6_Click()
   Tampilan6.Hide
   Tampilan2.Show
End Sub

Private Sub Lbtampilan6_Change()
   Lembar1.Range("R8") = Lbtampilan6.Text
End Sub

Private Sub Cbtampilan6_Change()
   Lembar1.Range("T8") = Cbtampilan6.Text
End Sub

Private Sub Hitungtampilan6_Click()
   Lembar1.Menghapushitungan
   Lembar1.MenentukanMntls
   Lembar1.MenentukanMntlb
   Lembar1.MenentukanMntpl
   Lembar1.MenentukanMnpakai
   Lembar1.MenetapkanKuatMomenNominalTerfaktorTiapProfil
```

```
End Sub

Private Sub Lihathasiltampilan6_Click()
    Tampilan6.Hide
    Lembar4.Activate
End Sub

Private Sub UserForm_QueryClose(Cancel As Integer, CloseMode As Integer)
    ProgramBaja.Close
End Sub
```

LAMPIRAN II

WIDE FLANGE SHAPE

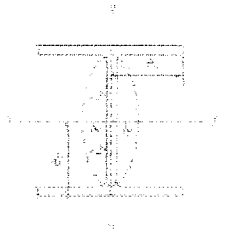
P.T. GUNUNG GARUDA

Geometrical moment of inertia $I = Ai^2$

Radius of gyration of area $i = \sqrt{I / A}$

Modulus of section $z = I / e$

(A = sectional area)



JIS G3192/TIS 1227-194 (DIBENTUK DENGAN GILING PANAS)

UKURAN

Ukuran Nominal	Standar ukuran Profil *H x B*	*t1*	*t2*	*r*	Bagian Luas *A*	Massa	momen Inersia *Ix*	*Iy*	Acuan Informatif Jari-jari Inersia *ix*	*iy*	Modulus Tampang *Zx*	*Zy*
mm x mm	mm x mm	mm	mm	mm	cm^2	kg/m	cm4	cm4	cm	cm	cm3	cm3
100 x 100	100 x 100	6	8	10	21.90	17.20	383	134.0	4.18	2.47	76.5	26.7
125 x 125	125 x 125	6.5	9	0	30.31	23.80	847	293.0	5.29	3.11	136.0	47.0
150 x 75	150 x 75	5	7	8	17.85	14.00	666	49.5	6.11	1.66	88.8	13.2
150 x 100	148 x 100	6	9	11	26.84	21.10	1 020	151.0	6.17	2.37	138.0	30.1
150 x 150	150 x 150	7	10	11	40.14	31.50	1 640	563.0	6.39	3.75	219.0	75.1
175 x 175	175 x 175	7.5	11	12	51.21	40.20	2 880	984.0	7.50	4.38	330.0	112.0
200 x 100	198 x 99	4.5	7	11	23.18	18.20	1 580	114.0	8.26	2.21	160.0	23.0
	200 x 100	5.5	8	11	27.16	21.30	1 840	134.0	8.24	2.22	184.0	26.8
200 x 200	200 x 200	8	12	13	63.53	49.90	4 720	1 600	8.62	5.02	472.0	160.0
250 x 125	248 x 124	5	8	12	32.68	25.70	3 540	255.0	10.40	2.79	285.0	41.1
	250 x 125	6	9	12	37.66	29.60	4 050	294.0	10.40	2.79	324.0	47.0
250 x 250	250 x 250	9	14	16	92.18	72.40	10 800	3 650	10.80	6.29	867.0	292.0
300 x 150	298 x 149	5.5	8	13	40.80	32.00	6 320	442.0	12.40	3.29	424.0	59.3
	300 x 150	6.5	9	13	46.78	36.70	7 210	508.0	12.40	3.29	481.0	67.7
300 x 300	300 x 300	10	15	18	119.80	94.00	20 400	6 750	13.10	7.51	1 360	450.0
350 x 175	346 x 174	6	9	14	52.68	41.40	11 100	792.0	14.50	3.88	641.0	91.0
	350 x 175	7	11	14	63.14	49.60	13 600	984.0	14.70	3.95	775.0	112.0
350 x 350	350 x 350	12	19	20	173.90	137.00	40 300	13 600	15.20	8.84	2 300	776.0
400 x 200	396 x 199	7	11	16	72.16	56.60	20 000	1 450	16.70	4.48	1 010	145.0
400 x 200	400 x 200	8	13	16	84.10	66.00	23 700	1 740	16.8	4.54	1 190	174.0
400 x 400	400 x 400	13	21	22	218.70	172.00	66 600	22 400	17.5	10.10	3 330	1 120
450 x 200	450 x 200	9	14	18	96.80	76.00	33 500	1 870	18.6	4.40	1 490	187.0
500 x 200	500 x 200	10	16	20	114.20	89.60	47 800	2 140	20.5	4.33	1 910	214.0
600 x 200	600 x 200	11	17	22	134.40	106.00	77 600	2 280	24.0	4.12	2 590	228.0
600 x 300	588 x 300	12	20	28	192.50	151.00	118 000	9 020	24.8	6.85	4 020	601.0

*700 x 300	700 x 300	13	24	28	235.50	185.00	201 000	10 800	29.3	6.78	5 760	722.0
*800 x 300	800 x 300	14	26	28	267.40	210.00	292 000	11 700	33.0	6.62	7 290	782.0

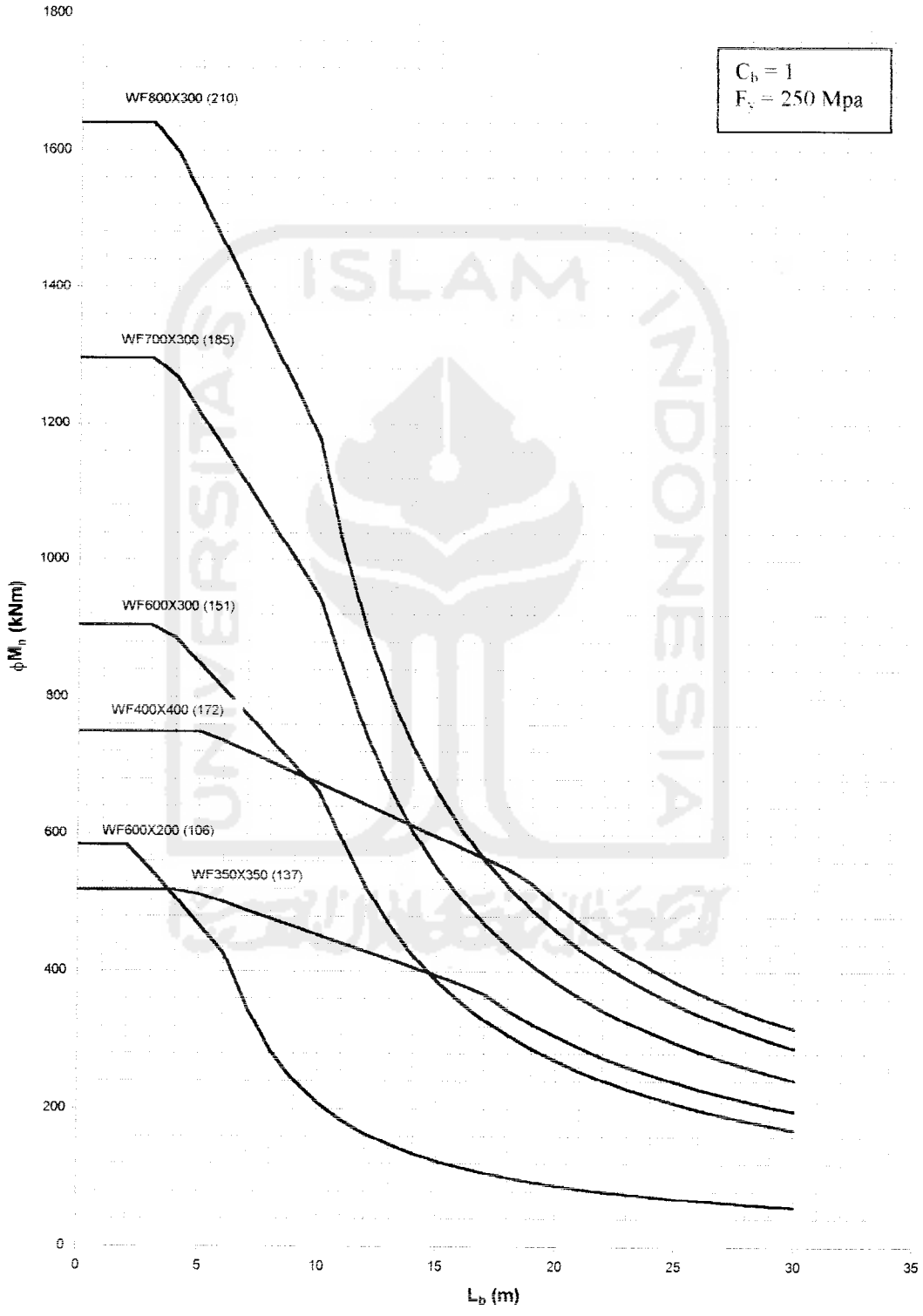
Catatan : * Ukuran untuk produk impor

Spesikasi

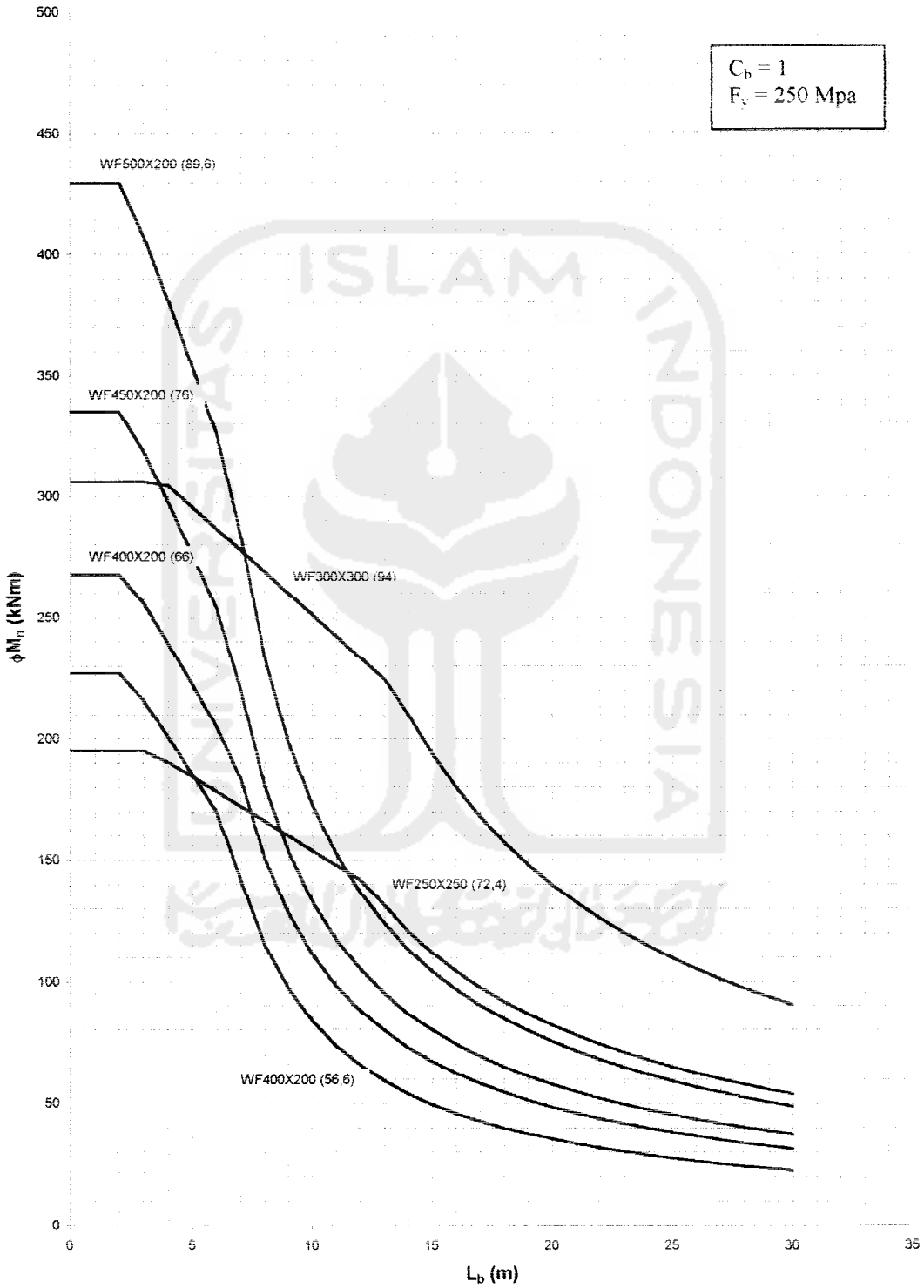
Untuk keterangan lebih lanjut hubungi e-mail : sales@grdsteel.com

LAMPIRAN III

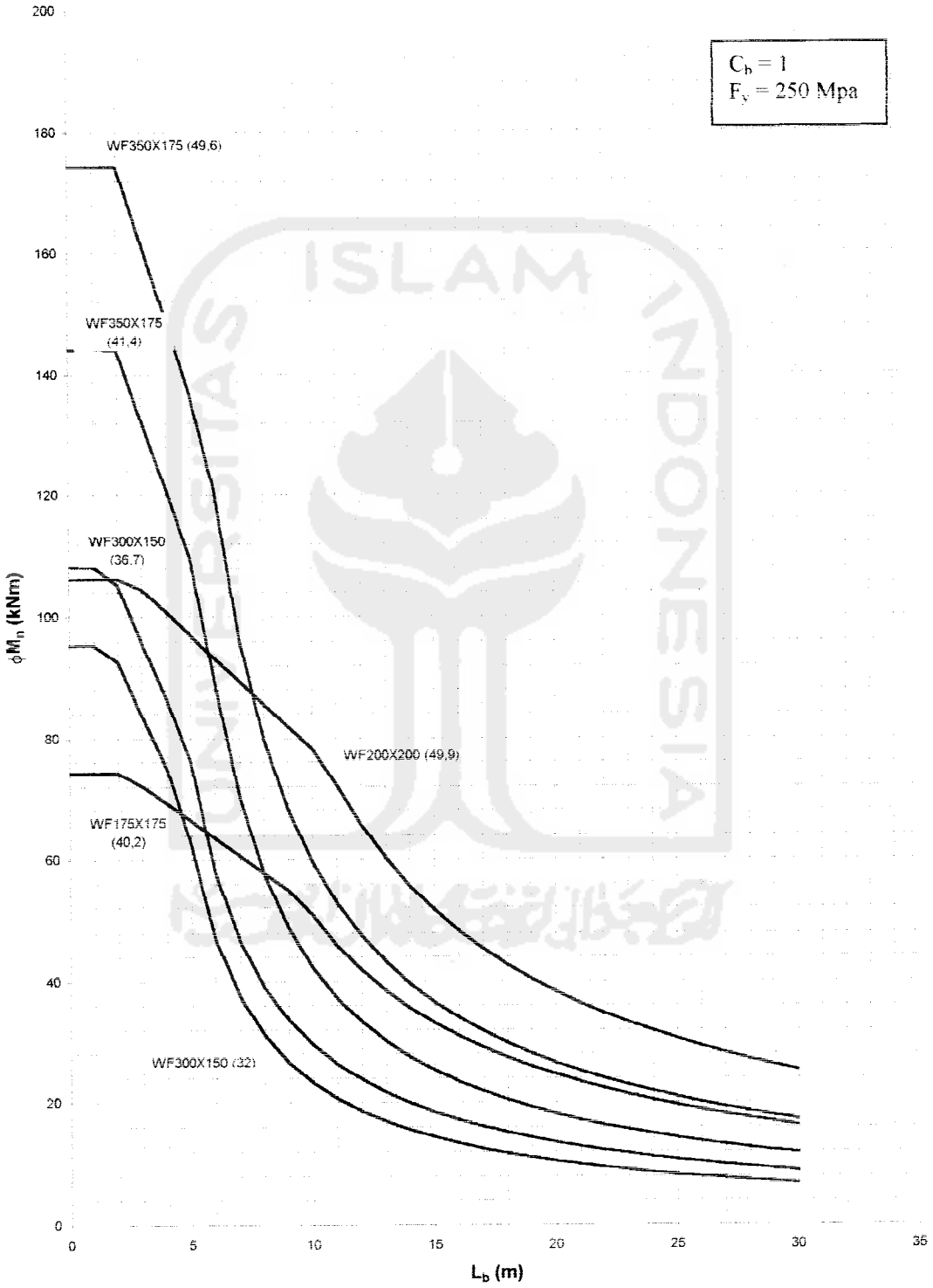
Grafik Kuat Momen Nominal (ϕM_n)-Panjang Tak Berpenopang Lateral (L_b)



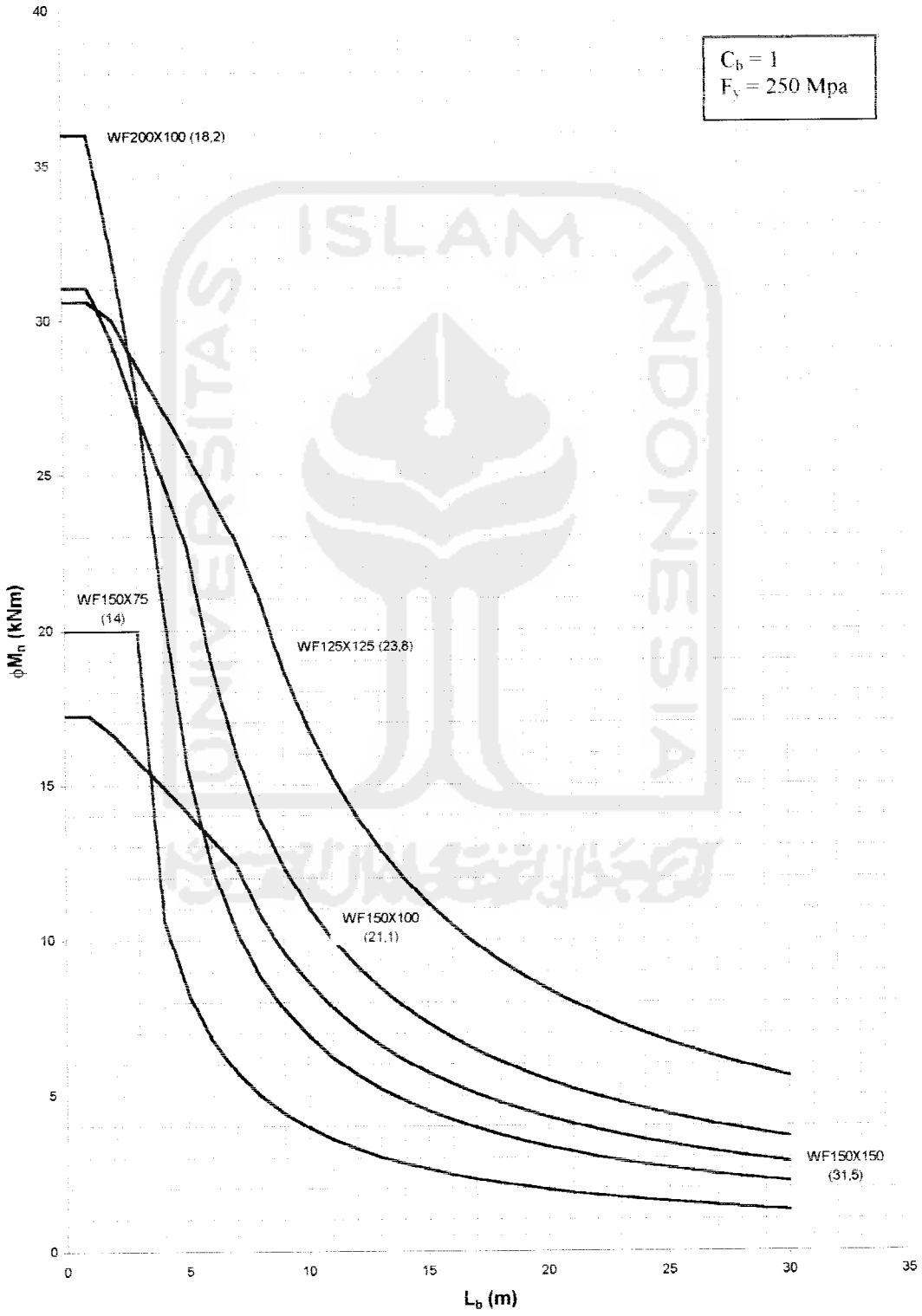
Grafik Kuat Momen Nominal (ϕM_n)-Panjang Tak Berpenopang Lateral (L_b)



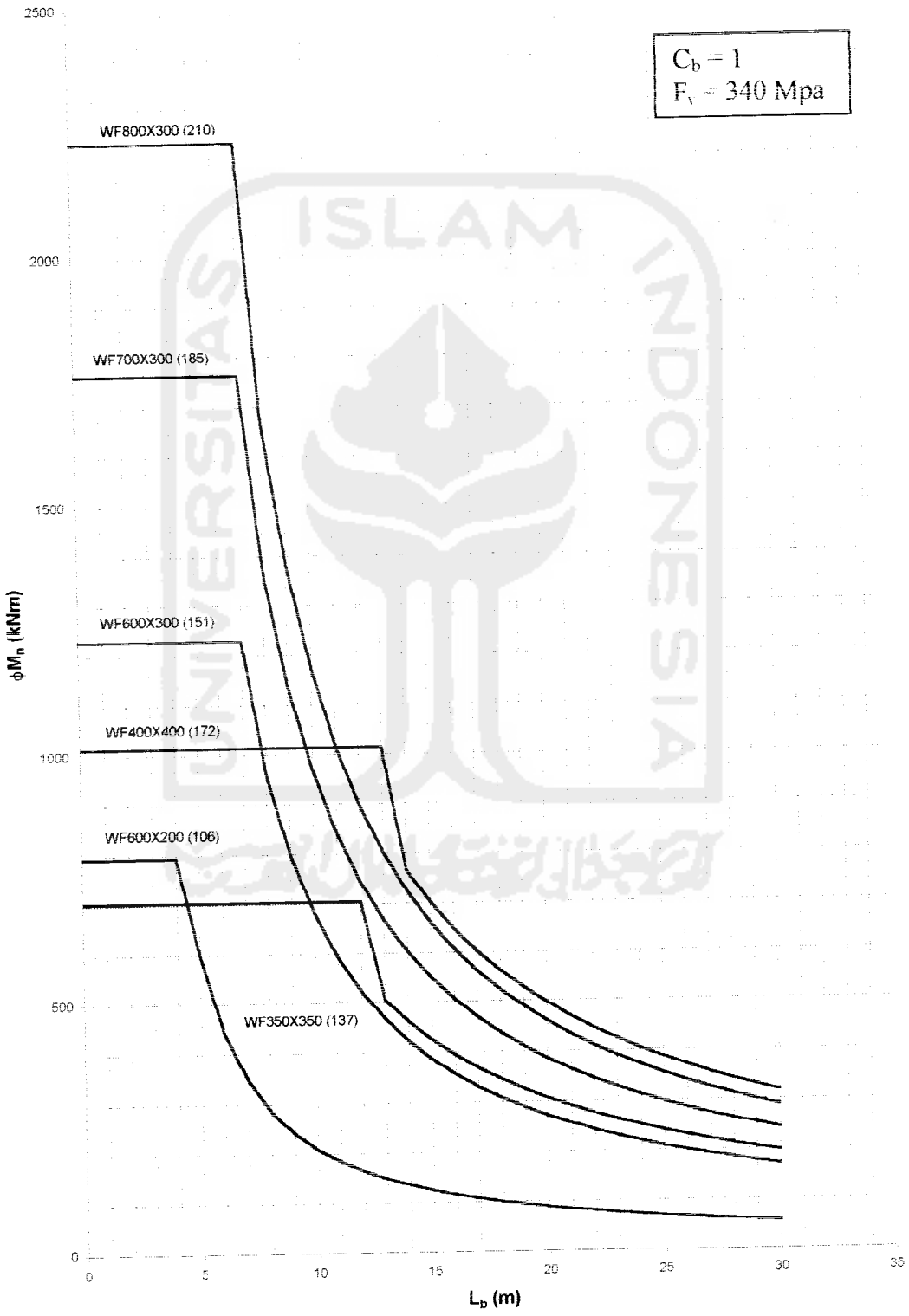
Grafik Kuat Momen Nominal (ϕM_n)-Panjang Tak Berpenopang Lateral (L_b)



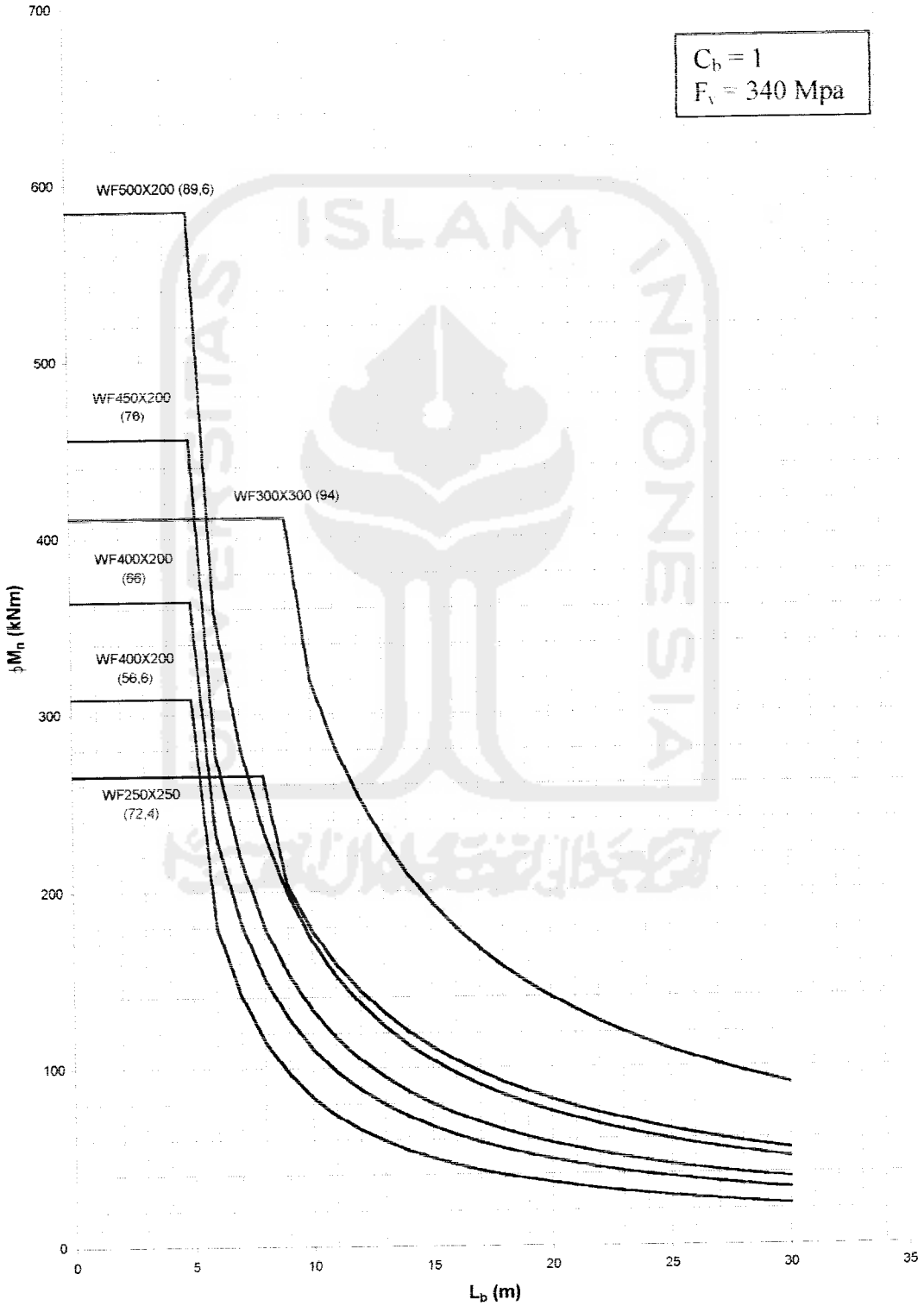
Grafik Kuat Momen Nominal (ϕM_n)-Panjang Tak Berpenopang Lateral (L_b)



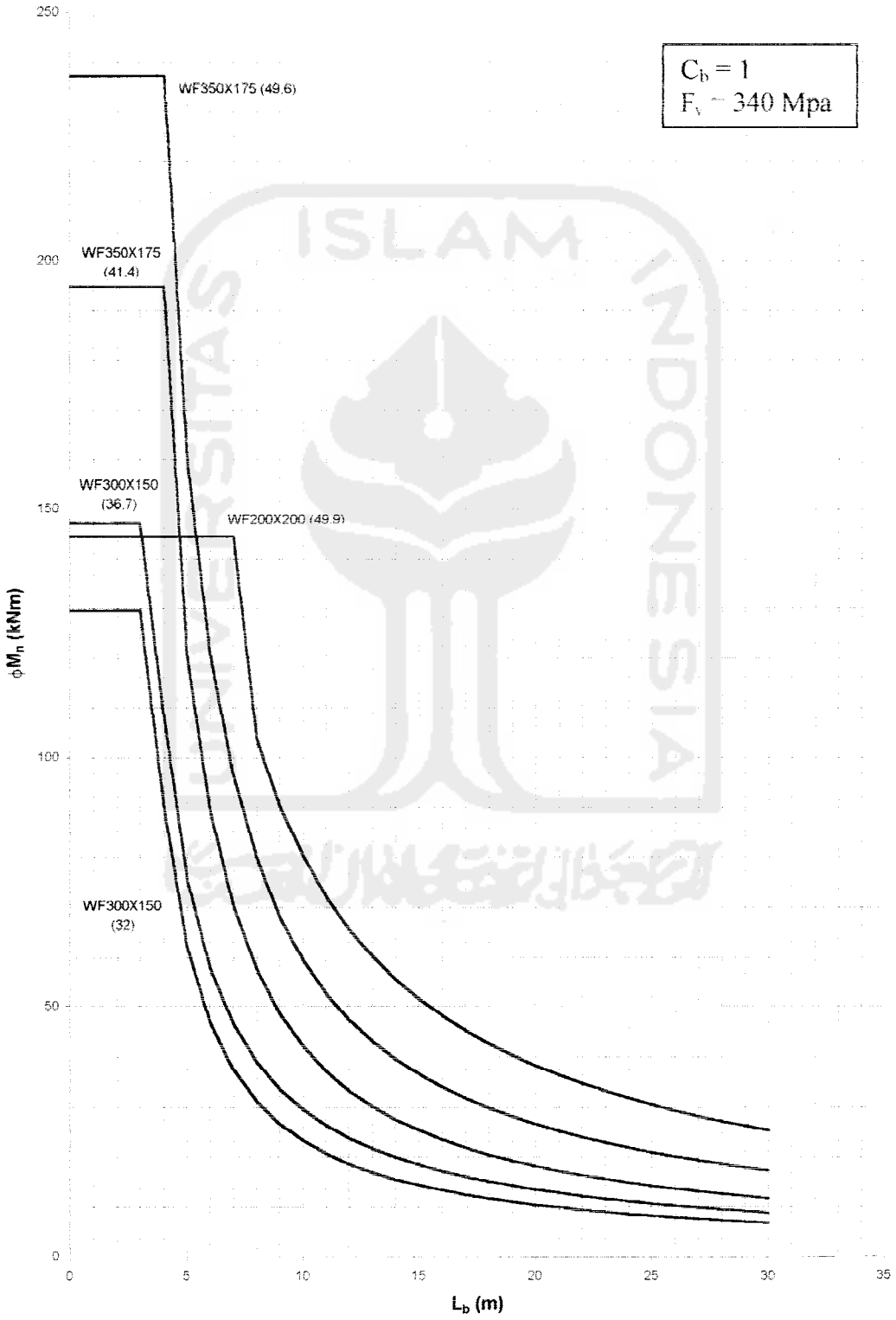
Grafik Kuat Momen Nominal (ϕM_n)-Panjang Tak Berpenopang Lateral (L_b)



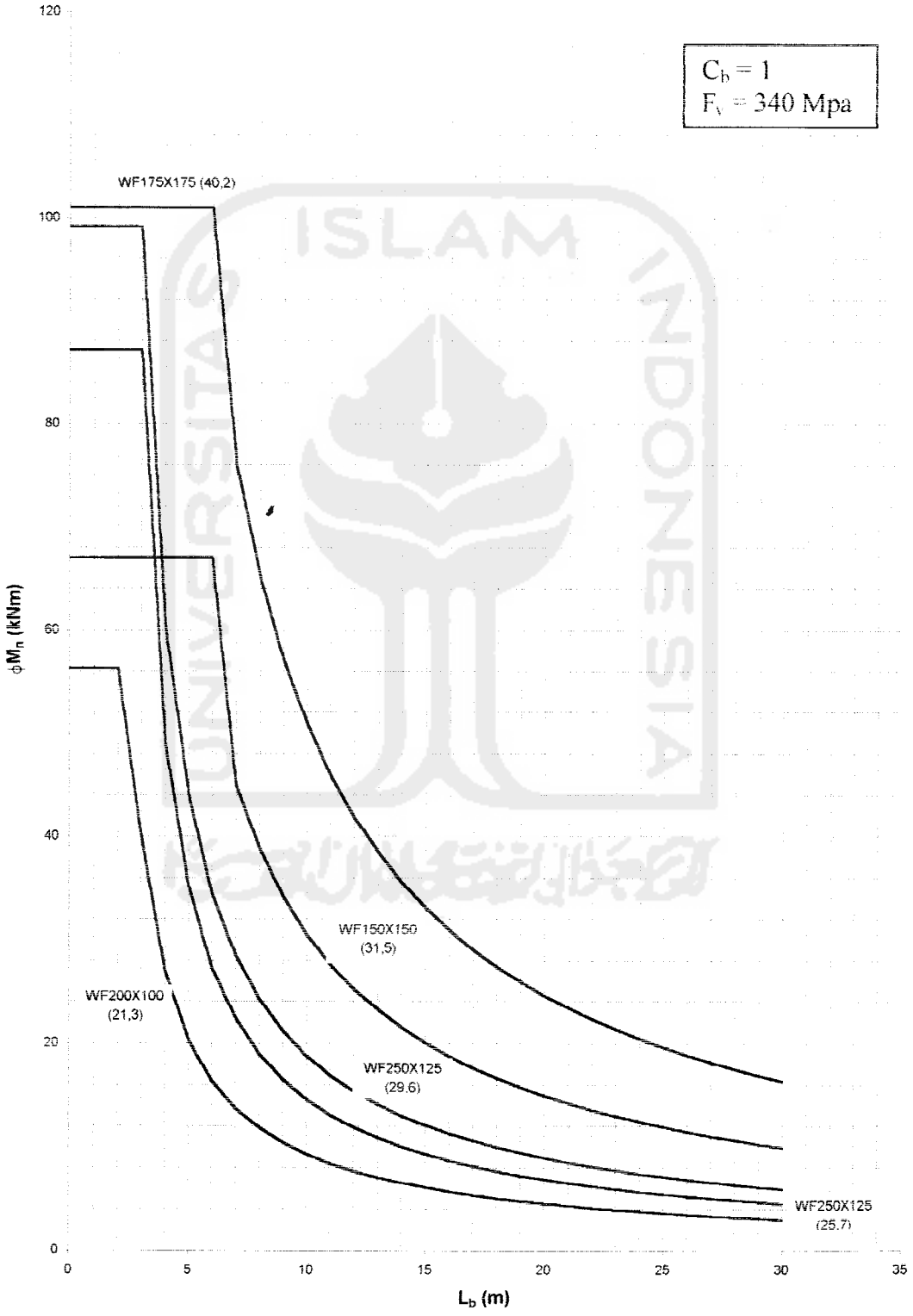
Grafik Kuat Momen Nominal (ϕM_n)-Panjang Tak Berpenopang Lateral (L_b)



Grafik Kuat Momen Nominal (ϕM_n)-Panjang Tak Berpenopang Lateral (L_b)



Grafik Kuat Momen Nominal (ϕM_n)-Panjang Tak Berpenopang Lateral (L_b)



Grafik Kuat Momen Nominal (ϕM_n)-Panjang Tak Berpenopang Lateral (L)