

Vedlegg 1 Program

```
Imports System.Math
```

```
Imports System.IO
```

```
Imports Microsoft.Office.Interop
```

```
Public Class Form1
```

```
    Dim b, l, h, t, s, sk As Double
```

```
    Dim rs, avstand, snow As Double
```

```
    '= "C:\Users\Quoc Cuong\Desktop\vind og snø.csv"
```

```
    Dim fileReader, bien, luu, fileName As String
```

```
    Dim sodong, dem As Integer
```

```
    Private Sub ComboBox2_SelectedIndexChanged(sender As Object, e As EventArgs)  
        Handles ComboBox2.SelectedIndexChanged
```

```
        ' Hente snø og vind fra NS-EN
```

```
        FileOpen(1, fileName, OpenMode.Input)
```

```
        bien = LineInput(1)
```

```
        Do While Not EOF(1)
```

```
            bien = LineInput(1)
```

```
            If (bien.Split(",")(0) = ComboBox1.Text) And (bien.Split(",")(1) =  
                ComboBox2.Text) Then
```

```
                txts.Text = bien.Split(",")(2)
```

```
                txtsk.Text = bien.Split(",")(3)
```

```
                txtv.Text = bien.Split(",")(4)
```

```
            End If
```

```
        Loop
```

```
        FileClose(1)
```

```
    End Sub
```

```
    Dim kq As System.IO.StreamWriter
```

```
    Dim fileBytes As Byte()
```

```
    Private Sub ComboBox1_SelectedIndexChanged(sender As Object, e As EventArgs)  
        Handles ComboBox1.SelectedIndexChanged
```

```
        ' Fordele fylke og kommunen
```

```
        ' Importer fra file.csv
```

```

If ComboBox1.Text = "Ostfold" Then
    ComboBox2.Items.Clear()
    FileOpen(1, fileName, OpenMode.Input)
    bien = LineInput(1)
    Do While Not EOF(1)
        bien = LineInput(1)
        If bien.Split(",")(0) = ComboBox1.Text Then
            ComboBox2.Items.Add(bien.Split(",")(1))
        End If
    Loop
    FileClose(1)
Else
End If
If ComboBox1.Text = "Akerhus" Then
    ComboBox2.Items.Clear()
    FileOpen(1, fileName, OpenMode.Input)
    bien = LineInput(1)
    Do While Not EOF(1)
        bien = LineInput(1)
        If bien.Split(",")(0) = ComboBox1.Text Then
            ComboBox2.Items.Add(bien.Split(",")(1))
        End If
    Loop
    FileClose(1)
Else
End If
If ComboBox1.Text = "Oslo" Then
    ComboBox2.Items.Clear()
    FileOpen(1, fileName, OpenMode.Input)
    bien = LineInput(1)
    Do While Not EOF(1)
        bien = LineInput(1)
        If bien.Split(",")(0) = ComboBox1.Text Then
            ComboBox2.Items.Add(bien.Split(",")(1))
        End If
    Loop
    FileClose(1)
End If

```

```
If ComboBox1.Text = "Hedmark" Then
    ComboBox2.Items.Clear()
    FileOpen(1, fileName, OpenMode.Input)
    bien = LineInput(1)
    Do While Not EOF(1)
        bien = LineInput(1)
        If bien.Split(",")(0) = ComboBox1.Text Then
            ComboBox2.Items.Add(bien.Split(",")(1))
        End If
    Loop
    FileClose(1)
```

End If

```
If ComboBox1.Text = "Oppland" Then
    ComboBox2.Items.Clear()
    FileOpen(1, fileName, OpenMode.Input)
    bien = LineInput(1)
    Do While Not EOF(1)
        bien = LineInput(1)
        If bien.Split(",")(0) = ComboBox1.Text Then
            ComboBox2.Items.Add(bien.Split(",")(1))
        End If
    Loop
    FileClose(1)
```

End If

```
If ComboBox1.Text = "Buskerud" Then
    ComboBox2.Items.Clear()
    FileOpen(1, fileName, OpenMode.Input)
    bien = LineInput(1)
    Do While Not EOF(1)
        bien = LineInput(1)
        If bien.Split(",")(0) = ComboBox1.Text Then
            ComboBox2.Items.Add(bien.Split(",")(1))
        End If
    Loop
    FileClose(1)
```

End If

```
If ComboBox1.Text = "Vestfold" Then
    ComboBox2.Items.Clear()
```

```

FileOpen(1, fileName, OpenMode.Input)
bien = LineInput(1)
Do While Not EOF(1)
    bien = LineInput(1)
    If bien.Split(",")(0) = ComboBox1.Text Then
        ComboBox2.Items.Add(bien.Split(",")(1))
    End If
Loop
FileClose(1)
End If
If ComboBox1.Text = "Telemark" Then
    ComboBox2.Items.Clear()
    FileOpen(1, fileName, OpenMode.Input)
    bien = LineInput(1)
    Do While Not EOF(1)
        bien = LineInput(1)
        If bien.Split(",")(0) = ComboBox1.Text Then
            ComboBox2.Items.Add(bien.Split(",")(1))
        End If
    Loop
    FileClose(1)
End If
If ComboBox1.Text = "Aust-Agder" Then
    ComboBox2.Items.Clear()
    FileOpen(1, fileName, OpenMode.Input)
    bien = LineInput(1)
    Do While Not EOF(1)
        bien = LineInput(1)
        If bien.Split(",")(0) = ComboBox1.Text Then
            ComboBox2.Items.Add(bien.Split(",")(1))
        End If
    Loop
    FileClose(1)
End If
If ComboBox1.Text = "Vest-Agder" Then
    ComboBox2.Items.Clear()
    FileOpen(1, fileName, OpenMode.Input)
    bien = LineInput(1)

```

```

Do While Not EOF(1)
    bien = LineInput(1)
    If bien.Split(",")(0) = ComboBox1.Text Then
        ComboBox2.Items.Add(bien.Split(",")(1))
    End If
Loop
FileClose(1)
End If
If ComboBox1.Text = "Rogaland" Then
    ComboBox2.Items.Clear()
    FileOpen(1, fileName, OpenMode.Input)
    bien = LineInput(1)
    Do While Not EOF(1)
        bien = LineInput(1)
        If bien.Split(",")(0) = ComboBox1.Text Then
            ComboBox2.Items.Add(bien.Split(",")(1))
        End If
    Loop
    FileClose(1)
End If
If ComboBox1.Text = "Hordaland" Then
    ComboBox2.Items.Clear()
    FileOpen(1, fileName, OpenMode.Input)
    bien = LineInput(1)
    Do While Not EOF(1)
        bien = LineInput(1)
        If bien.Split(",")(0) = ComboBox1.Text Then
            ComboBox2.Items.Add(bien.Split(",")(1))
        End If
    Loop
    FileClose(1)
End If
If ComboBox1.Text = "Sogn og Fjordane" Then
    ComboBox2.Items.Clear()
    FileOpen(1, fileName, OpenMode.Input)
    bien = LineInput(1)
    Do While Not EOF(1)
        bien = LineInput(1)

```

```

        If bien.Split(",")(0) = ComboBox1.Text Then
            ComboBox2.Items.Add(bien.Split(",")(1))
        End If
    Loop
    FileClose(1)
End If

If ComboBox1.Text = "More og Romsdal" Then
    ComboBox2.Items.Clear()
    FileOpen(1, fileName, OpenMode.Input)
    bien = LineInput(1)
    Do While Not EOF(1)
        bien = LineInput(1)
        If bien.Split(",")(0) = ComboBox1.Text Then
            ComboBox2.Items.Add(bien.Split(",")(1))
        End If
    Loop
    FileClose(1)
End If

If ComboBox1.Text = "Trondelag" Then
    ComboBox2.Items.Clear()
    FileOpen(1, fileName, OpenMode.Input)
    bien = LineInput(1)
    Do While Not EOF(1)
        bien = LineInput(1)
        If bien.Split(",")(0) = ComboBox1.Text Then
            ComboBox2.Items.Add(bien.Split(",")(1))
        End If
    Loop
    FileClose(1)
End If

If ComboBox1.Text = "Nordland" Then
    ComboBox2.Items.Clear()
    FileOpen(1, fileName, OpenMode.Input)
    bien = LineInput(1)
    Do While Not EOF(1)
        bien = LineInput(1)
        If bien.Split(",")(0) = ComboBox1.Text Then
            ComboBox2.Items.Add(bien.Split(",")(1))
        End If
    Loop
    FileClose(1)
End If

```

```

        End If
    Loop
    FileClose(1)
End If
If ComboBox1.Text = "Troms" Then
    ComboBox2.Items.Clear()
    FileOpen(1, fileName, OpenMode.Input)
    bien = LineInput(1)
    Do While Not EOF(1)
        bien = LineInput(1)
        If bien.Split(",")(0) = ComboBox1.Text Then
            ComboBox2.Items.Add(bien.Split(",")(1))
        End If
    Loop
    FileClose(1)
End If
If ComboBox1.Text = "Finnmark" Then
    ComboBox2.Items.Clear()
    FileOpen(1, fileName, OpenMode.Input)
    bien = LineInput(1)
    Do While Not EOF(1)
        bien = LineInput(1)
        If bien.Split(",")(0) = ComboBox1.Text Then
            ComboBox2.Items.Add(bien.Split(",")(1))
        End If
    Loop
    FileClose(1)
End If
If ComboBox1.Text = "Svalbard" Then
    ComboBox2.Items.Clear()
    FileOpen(1, fileName, OpenMode.Input)
    bien = LineInput(1)
    Do While Not EOF(1)
        bien = LineInput(1)
        If bien.Split(",")(0) = ComboBox1.Text Then
            ComboBox2.Items.Add(bien.Split(",")(1))
        End If
    Loop

```

```
FileClose(1)
End If
```

```
End Sub
```

```
Private Sub Button1_Click(sender As Object, e As EventArgs) Handles Button1.Click
    Dim q, u, snow1, v, gs, ge, t1, v1, v2, v3, l1, med, ved, fed, fmd, fyd, m, l2, x As
        Double
    b = Val(txtb.Text)
    h = Val(txth.Text)
    l = Val(txtl.Text)
    t = Val(txtt.Text)
    If txtb.Text = "" Or txth.Text = "" Or txtt.Text = "" Or txtl.Text = "" Or
        Val(txth.Text) > 4500 Or Val(txtb.Text) > 6500 Or Val(txtl.Text)
        > 15000 Or Val(txtt.Text) > 60 Then
        MsgBox("Skrive feil")
    Else
        txtrs.Clear()

        ' Radian til grade
        t1 = t * 0.017

        ' Beregning snø last
        s = Val(txts.Text)
        sk = Val(txtsk.Text)
        snow = s + sk
        If t < 30 Then
            u = 0.8
        Else
            u = (0.8 * (60 - t)) / 30
        End If
        snow1 = u * snow

        ' Avstand
        If l = 10000 And b = 4000 Then
            l1 = l / 4
        Else
            l2 = (2500 * Pow(4000, 2)) / (b * b)
```



```

m = l / l2
x = Int(m) + 1
l1 = Round((l / x), 2)
If l1 < 2000 Then
    l1 = 2000
End If
End If
l1 = l1 * 0.001

```

```

' Beregning vind last
v = Val(txtv.Text)
v1 = v * 0.34
v2 = v1 * 1.5
q = 0.625 * Pow(v2, 2) * 0.001
v3 = q * l1

```

```

' Trevirke C24
' Beregning for bete

```

```

gs = snow1 * l1
ge = (0.5 * l1) / Cos(t1)

```

```

fed = 1.35 * ge + 1.05 * gs
med = (fed * Pow((b * 0.001), 2)) / 8
ved = (fed * b * 0.001) / 2

```

```

'Dimensjonrende materialfasthet

```

```

fmd = (24 * 1 * 0.6 * 1.1) / 1.3
fyd = (4 * 1 * 0.6 * 1.1) / 1.3

```

```

'Dimensjonerende spenning
Dim ob, tb As Double

```

```

' Vong lap
Dim kt_bb, gthb, gtbb, dem As Integer

```

```

dem = 0
For hb As Double = 298 To 98 Step -50
    kt_bb = 0
    dem += 1
    For bb As Double = hb To 98 Step -50
        kt_bb += 1
        If kt_bb < 3 Then
            ob = (6 * med * Pow(10, 6)) / (bb * Pow(hb, 2))
            tb = (3 * ved * Pow(10, 3)) / (2 * 0.8 * hb * bb)
            If (ob > fmd) Or (tb > fyd) Then
                GoTo 1
            Else
                gthb = hb
                gtbb = bb
            End If
        End If
    Next bb
Next hb

```

1:

```

txtrs.AppendText(" - Trevirke C24: " + vbCrLf +
    "      - Dimensjonene til bete: " + Str(gthb) + "x" + Str(gtbb) + "
    mm" + vbCrLf)

```

' Beregning for stav

```

Dim feds, gb, ay, by, n As Double
gb = 420 * gthb * gtbb * 9.8 * Pow(10, -9)
feds = 1.35 * (ge + gb) + 1.05 * gs
ay = (b * b * 0.5 * feds - h * h * 0.5 * v3) / b * 0.001
by = 0.001 * b * feds - ay
If ay > by Then
    n = ay
Else
    n = by
End If

```

'Dimensjonrende materialfasthet

```

Dim fmds As Double
fmds = (21 * 1 * 0.6 * 1.1) / 1.3

```

```
'txtrs.AppendText("Gia tri fmds: " + Str(fmds))
```

```
'Dimensjonerende spenning
```

```
Dim os As Double
```

```
' Vong lap
```

```
Dim kt_bb1, gths, gtbs, dem1 As Integer
```

```
dem1 = 0
```

```
For hs As Double = 298 To 98 Step -50
```

```
    kt_bb1 = 0
```

```
    dem1 += 1
```

```
    For bs As Double = hs To 98 Step -50
```

```
        kt_bb1 += 1
```

```
        If kt_bb1 < 3 Then
```

```
            os = (n * 1000) / (hs * bs)
```

```
            If (os > fmds) Then
```

```
                GoTo 2
```

```
            Else
```

```
                gths = hs + 50
```

```
                gtbs = bs + 50
```

```
            End If
```

```
        End If
```

```
    Next bs
```

```
Next hs
```

```
'txtrs.AppendText("Gia tri os: " + Str(os))
```

2:

```
txtrs.AppendText("      - Dimensjonene til stav: " + Str(gths) + "x" + Str(gtbs)  
                + " mm" + vbCrLf)
```

```
' Beregning for skårband
```

```
Dim stang As Double
```

```
stang = (h * h * v3 * 0.5 + b * b * 0.5 * feds) * 0.47 * Pow(10, -6)
```

```
'txtrs.AppendText("Gia tri stang: " + Str(stang) + vbCrLf)
```

```
'Dimensjonrende materialfasthet
```

```
Dim fmdstang As Double
```

```
fmdstang = (21 * 1.1 * 0.6 * 1.1) / 1.3
```

```
'txtrs.AppendText("Gia tri fmdstang: " + Str(fmdstang))
```

'Dimensjonerende spenning

Dim ostang As Double

' Vong lap

Dim kt_bb2, gthstang, gtbstang, dem2 As Integer

dem2 = 0

For hstang As Double = 298 To 98 Step -50

 kt_bb2 = 0

 dem2 += 1

 For bstang As Double = hstang To 98 Step -50

 kt_bb2 += 1

 If kt_bb2 < 3 Then

 ostang = (stang * 1000) / (hstang * bstang)

 If (ostang > fmdstang) Then

 GoTo 3

 Else

 gthstang = hstang

 gtbstang = bstang

 End If

 End If

 Next bstang

Next hstang

'txtrs.AppendText("Gia tri ostang: " + Str(ostang))

3:

txtrs.AppendText(" - Dimensjonene til skårband: " + Str(gthstang) + "x" +
 Str(gtbstang) + " mm" + vbCrLf +

 " - Avstand mellom 2 grindbygg er: " + Str(l1) + "m" + vbCrLf)

'Tre virke C30

'Beregning for bete

'Dimensjonerende materialfasthet

Dim fmd30, fyd30 As Double

fmd30 = (30 * 1 * 0.6 * 1.1) / 1.3

fyd30 = (4 * 1 * 0.6 * 1.1) / 1.3

'Dimensjonerende spenning

Dim ob30, tb30 As Double

```

' Vong lap
Dim kt_bb30, gthb30, gtbb30, dem30 As Integer
dem30 = 0
For hb30 As Double = 298 To 98 Step -50
    kt_bb30 = 0
    dem30 += 1
    For bb30 As Double = hb30 To 98 Step -50
        kt_bb30 += 1
        If kt_bb30 < 3 Then
            ob30 = (6 * med * Pow(10, 6)) / (bb30 * Pow(hb30, 2))
            tb30 = (3 * ved * Pow(10, 3)) / (2 * 0.8 * hb30 * bb30)
            If (ob30 > fmd30) Or (tb30 > fyd30) Then
                GoTo 4
            Else
                gthb30 = hb30
                gtbb30 = bb30
            End If
        End If
    Next bb30
Next hb30

```

4:

```

txtrs.AppendText(" - Trevirke C30: " + vbCrLf +
    "      - Dimensjonene til bete: " + Str(gthb30) + "x" + Str(gtbb30) +
    " mm" + vbCrLf)

```

```

' Beregning for stav
Dim feds30, gb30, ay30, by30, n30 As Double
gb30 = 460 * gthb30 * gtbb30 * 9.8 * Pow(10, -9)
feds30 = 1.35 * (ge + gb30) + 1.05 * gs
ay30 = (b * b * 0.5 * feds30 - h * h * 0.5 * v3) / b * 0.001
by30 = 0.001 * b * feds30 - ay30
If ay30 > by30 Then
    n30 = ay30
Else
    n30 = by30
End If

```

```

'Dimensjonrende materialfasthet
Dim fmds30 As Double
fmds30 = (24 * 1 * 0.6 * 1.1) / 1.3
'txtrs.AppendText("Gia tri fmds: " + Str(fmds))

```

```

'Dimensjonerende spenning
Dim os30 As Double

```

```

' Vong lap
Dim kt_bb31, gths30, gtbs30, dem31 As Integer
dem31 = 0
For hs30 As Double = 298 To 98 Step -50
    kt_bb31 = 0
    dem31 += 1
    For bs30 As Double = hs30 To 98 Step -50
        kt_bb31 += 1
        If kt_bb31 < 3 Then
            os30 = (n30 * 1000) / (hs30 * bs30)
            If (os30 > fmds30) Then
                GoTo 5
            Else
                gths30 = hs30 + 50
                gtbs30 = bs30 + 50
            End If
        End If
    Next bs30
Next hs30
'txtrs.AppendText("Gia tri os: " + Str(os))

```

5:

```

txtrs.AppendText("      - Dimensjonene til stav: " + Str(gths30) + "x" +
    Str(gtbs30) + " mm" + vbCrLf)

```

```

' Beregning for skårband
Dim stang30 As Double
stang30 = (h * h * v3 * 0.5 + b * b * 0.5 * feds30) * 0.47 * Pow(10, -6)
'txtrs.AppendText("Gia tri stang: " + Str(stang) + vbCrLf)

```

```

'Dimensjonrende materialfasthet

```

```

Dim fmdstang30 As Double
fmdstang30 = (24 * 1.1 * 0.6 * 1.1) / 1.3
'txtrs.AppendText("Gia tri fmdstang: " + Str(fmdstang))

'Dimensjonerende spenning
Dim ostang30 As Double

' Vong lap
Dim kt_bb32, gthstang30, gtbstang30, dem32 As Integer
dem32 = 0
For hstang30 As Double = 298 To 98 Step -50
    kt_bb32 = 0
    dem32 += 1
    For bstang30 As Double = hstang30 To 98 Step -50
        kt_bb32 += 1
        If kt_bb32 < 3 Then
            ostang30 = (stang30 * 1000) / (hstang30 * bstang30)
            If (ostang30 > fmdstang30) Then
                GoTo 6
            Else
                gthstang30 = hstang30
                gtbstang30 = bstang30
            End If
        End If
    Next bstang30
Next hstang30
'txtrs.AppendText("Gia tri ostang: " + Str(ostang))

```

6:

```

txtrs.AppendText("      - Dimensjonene til skårband: " + Str(gthstang30) + "x"
                + Str(gtbstang30) + " mm" + vbCrLf +
                "      - Avstand mellom 2 grindbygg er: " + Str(l1) + "m" + vbCrLf)
'Limtre GL28h

```

```

' Beregning for bete
'Dimensjonrende materialfasthet
Dim fmdgl28h, fydgl28h As Double
fmdgl28h = (28 * 1 * 0.6 * 1.1) / 1.25
fydgl28h = (3.5 * 1 * 0.6 * 1.1) / 1.25

```

```
'Dimensjonerende spenning
Dim obgl28h, tbgl28h As Double
```

```
' Vong lap
```

```
Dim kt_bbgl28h, gthbgl28h, gtbbgl28h, demgl28h As Integer
```

```
demgl28h = 0
```

```
For hbgl28h As Double = 320 To 80 Step -40
```

```
    kt_bbgl28h = 0
```

```
    demgl28h += 1
```

```
    For bbgl28h As Double = hbgl28h To 80 Step -40
```

```
        kt_bbgl28h += 1
```

```
        If kt_bbgl28h < 3 Then
```

```
            obgl28h = (6 * med * Pow(10, 6)) / (bbgl28h * Pow(hbgl28h, 2))
```

```
            tbgl28h = (3 * ved * Pow(10, 3)) / (2 * 0.8 * hbgl28h * bbgl28h)
```

```
            If (obgl28h > fmdgl28h) Or (tbgl28h > fydgl28h) Then
```

```
                GoTo 7
```

```
            Else
```

```
                gthbgl28h = hbgl28h
```

```
                gtbbgl28h = bbgl28h
```

```
            End If
```

```
        End If
```

```
    Next bbgl28h
```

```
Next hbgl28h
```

7:

```
txtrs.AppendText(" - Limtre GL28h: " + vbCrLf +
```

```
    "      - Dimensjonene til bete: " + Str(gthbgl28h) + "x" +  
    Str(gtbbgl28h) + " mm" + vbCrLf)
```

```
' Beregning for stav
```

```
Dim fedsgl28h, gbgl28h, aygl28h, bygl28h, ngl28h As Double
```

```
gbgl28h = 425 * gthbgl28h * gtbbgl28h * 9.8 * Pow(10, -9)
```

```
fedsgl28h = 1.35 * (ge + gbgl28h) + 1.05 * gs
```

```
aygl28h = (b * b * 0.5 * fedsgl28h - h * h * 0.5 * v3) / b * 0.001
```

```
bygl28h = 0.001 * b * fedsgl28h - aygl28h
```

```
If aygl28h > bygl28h Then
```

```
    ngl28h = aygl28h
```

```
Else
```

```
    ngl28h = bygl28h
```

```
End If
```



```

'Dimensjonrende materialfasthet
Dim fmdsgl28h As Double
fmdsgl28h = (28 * 1 * 0.6 * 1.1) / 1.25
'txtrs.AppendText("Gia tri fmds: " + Str(fmds))

```

```

'Dimensjonerende spenning
Dim osgl28h As Double

```

```

' Vong lap
Dim kt_bbgl28h1, gthsgl28h, gtbsgl28h, demgl28h1 As Integer
demgl28h1 = 0
For hsgl28h As Double = 320 To 80 Step -40
    kt_bbgl28h1 = 0
    demgl28h1 += 1
    For bsgl28h As Double = hsgl28h To 80 Step -40
        kt_bbgl28h1 += 1
        If kt_bbgl28h1 < 3 Then
            osgl28h = (ngl28h * 1000) / (hsgl28h * bsgl28h)
            If (os30 > fmds30) Then
                GoTo 8
            Else
                gthsgl28h = hsgl28h + 80
                gtbsgl28h = bsgl28h + 80
            End If
        End If
    Next bsgl28h
Next hsgl28h
'txtrs.AppendText("Gia tri os: " + Str(os))

```

8:

```

txtrs.AppendText("      - Dimensjonene til stav: " + Str(gthsgl28h) + "x" +
    Str(gtbsgl28h) + " mm" + vbCrLf)

```

```

' Beregning for skårband
Dim stanggl28h As Double
stanggl28h = (h * h * v3 * 0.5 + b * b * 0.5 * fedsgl28h) * 0.47 * Pow(10, -6)
'txtrs.AppendText("Gia tri stang: " + Str(stang) + vbCrLf)

```

```

'Dimensjonrende materialfasthet
Dim fmdstanggl28h As Double
fmdstanggl28h = (28 * 1.1 * 0.6 * 1.1) / 1.25
'txtrs.AppendText("Gia tri fmdstang: " + Str(fmdstang))

```

```

'Dimensjonerende spenning
Dim ostanggl28h As Double

```

```

' Vong lap
Dim kt_bbgl28h2, gthstanggl28h, gtbstanggl28h, demgl28h2 As Integer
demgl28h2 = 0
For hstanggl28h As Double = 320 To 80 Step -40
    kt_bbgl28h2 = 0
    demgl28h2 += 1
    For bstanggl28h As Double = hstanggl28h To 80 Step -40
        kt_bbgl28h2 += 1
        If kt_bbgl28h2 < 3 Then
            ostanggl28h = (stanggl28h * 1000) / (hstanggl28h * bstanggl28h)
            If (ostanggl28h > fmdstanggl28h) Then
                GoTo 9
            Else
                gthstanggl28h = hstanggl28h
                gtbstanggl28h = bstanggl28h
            End If
        End If
    Next bstanggl28h
Next hstanggl28h
'txtrs.AppendText("Gia tri ostang: " + Str(ostang))

```

9:

```

txtrs.AppendText("      - Dimensjonene til skårband: " + Str(gthstanggl28h) +
    "x" + Str(gtbstanggl28h) + " mm" + vbCrLf +
    "      - Avstand mellom 2 grindbygg er: " + Str(l1) + "m" + vbCrLf)

```

End If

,

End Sub

```
Private Sub Form1_Load(sender As Object, e As EventArgs) Handles Me.Load
    ' Hente file.excel
    OFD.Filter = "txt files (*.txt)|*.txt|csv files (*.csv)|*.csv|All files (*.*)|*.*"
    OFD.FilterIndex = 2
    OFD.ShowDialog()
    fileName = OFD.FileName
    FileOpen(1, fileName, OpenMode.Input)
    bien = LineInput(1)
    dem = 0
    luu = ""
    Do While Not EOF(1)
        bien = LineInput(1)
        If bien.Split(",")(0) <> luu Then
            ComboBox1.Items.Add(bien.Split(",")(0))
        End If
        luu = bien.Split(",")(0)
    Loop
    FileClose(1)
End Sub
```

End Class