Section: Get and Remove General Section Profile

Property

Functions

afx_msg VARIANT	**OSPropertyUI::GetSectionPropertyValues** (const VARIANT FAR &varProfRefNo, VARIANT FAR &varfWidth, VARIANT FAR &varfDepth, VARIANT FAR &varfAx, VARIANT FAR &varfAy, VARIANT FAR &varfAz, VARIANT FAR &varfIx, VARIANT FAR &varfIy, VARIANT FAR &varfIz, VARIANT FAR &varfTf, VARIANT FAR &varfTw) Retrieve long member properties of the specified beam member.
afx_msg VARIANT	**OSPropertyUI::GetSectionPropertyAssignedBeamCount** (const VARIANT FAR &varProfRefNo) Get section assigned beam count.
afx_msg VARIANT	**OSPropertyUI::GetSectionPropertyAssignedBeamList** (const VARIANT FAR &varProfRefNo, VARIANT FAR &nBeamList) Get section assigned beam list.
afx_msg VARIANT	**OSPropertyUI::GetBeamSectionPropertyRefNo** (const VARIANT FAR &varnBeamNo) Returns the section property reference number of the specified beam.
afx_msg VARIANT	**OSPropertyUI::GetBeamSectionPropertyValuesEx** (const VARIANT FAR &varnBeamNo, VARIANT FAR &varPropType, VARIANT FAR &varPropValues) Returns the section property Values of the specified beam.
afx_msg VARIANT	**OSPropertyUI::GetSectionPropertyValuesEx** (const VARIANT FAR &varProfRefNo, VARIANT FAR &varPropType, VARIANT FAR &varPropValues) Get all parameters of a specified section property by section property ID.
afx_msg VARIANT	**OSPropertyUI::GetSectionTableNo** (const VARIANT FAR &varnBeamNo) Get section table number.
afx_msg VARIANT	**OSPropertyUI::GetBeamSectionPropertyTypeNo** (const VARIANT FAR &varnBeamNo) Gets the section property type number of the specified beam.
afx_msg VARIANT	**OSPropertyUI::GetBeamSectionName** (const VARIANT FAR &varnBeamNo) Get beam section string name.
afx_msg VARIANT	**OSPropertyUI::GetBeamSectionDisplayName** (const VARIANT FAR &varnBeamNo) This function returns the display section name of the specified beam.
afx_msg VARIANT	**OSPropertyUI::GetCountryTableNo** (const VARIANT FAR &varnBeamNo) Get The country CODE. for the specified member.
afx_msg VARIANT	**OSPropertyUI::GetSectionPropertyCount** () Return total number of different sectional properties exist in the current STAAD file.
afx_msg VARIANT	**OSPropertyUI::GetSectionPropertyList** (VARIANT FAR &nPropList) Gets the list of Section Property Reference IDs.

afx_msg VARIANT	**OSPropertyUI::GetSectionPropertyName** (const VARIANT FAR &varSecRefNo, VARIANT FAR &varstrName) Get the property name for the specified section property reference number.
afx_msg VARIANT	**OSPropertyUI::GetSectionPropertyType** (const VARIANT FAR &varSecRefNo) Return the section property type for the specified section property reference number.
afx_msg VARIANT	**OSPropertyUI::GetSectionPropertyCountry** (const VARIANT FAR &varSecRefNo) Return the country reference number for the section property reference number specified.
afx_msg long	**OSPropertyUI::GetShapeCode** (const VARIANT FAR &varCountry, LPCTSTR strValue) Get the Shape Code with specific Country and specific Section Name.
afx_msg long	**OSPropertyUI::GetRecordForSection** (const VARIANT FAR &varCountry, LPCTSTR strValue) Get the Record No (Record No in Section database) in table with specific Country ID and specific Section Name.
afx_msg VARIANT	**OSPropertyUI::GetPlateThickness** (const VARIANT FAR &varnPlateNo, VARIANT FAR &varfThkArray) Get plate thickness at corners for the specified plate.
afx_msg VARIANT	**OSPropertyUI::GetThicknessPropertyCount** () Get Thickness Property Count.
afx_msg VARIANT	**OSPropertyUI::GetThicknessPropertyList** (VARIANT FAR &nPropList) Get Thickness Property ID list.
afx_msg VARIANT	**OSPropertyUI::GetThicknessPropertyAssignedPlateCount** (const VARIANT FAR &varProfRefNo) Gets the count of plates which are assigned with the specified Thickness Property reference ID.
afx_msg VARIANT	**OSPropertyUI::GetThicknessPropertyAssignedPlateList** (const VARIANT FAR &varProfRefNo, VARIANT FAR &nPlateList) Gets the list of plate numbers which are assigned with the specified Thickness Property reference ID.
afx_msg VARIANT	**OSPropertyUI::GetThicknessPropertyValues** (const VARIANT FAR &varProfRefNo, VARIANT FAR &dThicknessList) Get Thickness Property Values.
afx_msg VARIANT	**OSPropertyUI::RemovePropertyFromPlate** (const VARIANT FAR &nPlateNo) Remove Thickness Property From the specific Plate.
afx_msg VARIANT	**OSPropertyUI::RemoveMaterialFromPlate** (const VARIANT FAR &nPlateNo) Remove Material From the specific Plates.
afx_msg VARIANT	**OSPropertyUI::RemoveMaterialFromSolid** (const VARIANT FAR &nSolidNo) Remove Material From the specific Solids.
afx_msg VARIANT	**OSPropertyUI::GetIsotropicMaterialAssignedPlateList** (const VARIANT &strMaterialName, VARIANT FAR &nPlateList)

	Gets the list of plate numbers which are assigned with the specified isotropic material.
afx_msg VARIANT	**OSPropertyUI::GetCountofSectionPropertyValuesEx** () Returns the total count of Section Property values.

Detailed Description

These functions are related to get section information.

Function Documentation

◆ GetBeamSectionDisplayName()

VARIANT OSPropertyUI::GetBeamSectionDisplayName (const VARIANT FAR & varnBeamNo)

This function returns the display section name of the specified beam.

Parameters

[in] **varnBeamNo** The beam number ID.

Returns

The section string name.

Empty string if the specified beam is not found or property is not assigned to it.

Refer the table below for probable section names :

Sl No.	Section Type	In STD File	GetBeamSectionDisplayName
1	Standard Section from Steel Database	TABLE ST W36X925	W36X925
		TABLE D W36X925 SP 1	W36X925 D SP 1.00
		5 TABLE SD L20205 SP 1	L20205 SD SP 1.00
2	Pipe and Tube definition	8 TABLE ST PIPE OD 2 ID 1	PIPE
		8 TABLE ST TUBE TH 1 WT 2 DT 3	TUBE
3	Prismatic	3 PRIS YD 1 ZD 2 YB 2 ZB 3	Prismatic Tee
		8 PRIS YD 3 ZD 1 ZB 2	Prismatic Trapezoid
4	Tapered	3 TAPERED 1 2 3 1 2 3 1	Taper
5	Assign Profile	3 ASSIGN ANGLE DOUBLE	Assign Double Angle
6	User Provided Table	14 TO 23 UPT 2 LANG40404	LANG40404

C++ Syntax

```
// Get section string name of Beam #3.
VARIANT SectionName = OSPropertyUI::GetBeamSectionDisplayName(3);
```

VBA Syntax

```
' Get section string name of Beam #3.
Option Explicit

 Sub Main
     Dim objOpenStaad As Object
     Dim stdFile As String
     Dim Result As String

     Set objOpenStaad = GetObject(,"StaadPro.OpenSTAAD")
     objOpenStaad.GetSTAADFile stdFile, "TRUE"
 Result = objOpenStaad.Property.GetBeamSectionDisplayName(3)
```

```
End Sub
```

GetBeamSectionName()

VARIANT OSPropertyUI::GetBeamSectionName (const VARIANT FAR & varnBeamNo)

Get beam section string name.

Parameters

[in] **varnBeamNo** The beam number ID.

Returns

The section string name.

Refer the table below for probable section names :

Sl No.	Section Type	In STD File	GetBeamSectionName
1	Standard Section from Steel Database	TABLE ST W36X925	W36X925
		TABLE D W36X925 SP 1	W36X925
		5 TABLE SD L20205 SP 1	L20205
2	Pipe and Tube definition	8 TABLE ST PIPE OD 2 ID 1	PIPE
		8 TABLE ST TUBE TH 1 WT 2 DT 3	TUBE
3	Prismatic	3 PRIS YD 1 ZD 2 YB 2 ZB 3	Prismatic Tee
		8 PRIS YD 3 ZD 1 ZB 2	Prismatic Trapezoid
4	Tapered	3 TAPERED 1 2 3 1 2 3 1	Taper
5	Assign Profile	3 ASSIGN ANGLE DOUBLE	Assign Double Angle
6	User Provided Table	14 TO 23 UPT 2 LANG40404	LANG40404

C++ Syntax

```
// Get section string name of Beam #3.
VARIANT SectionName = OSPropertyUI::GetBeamSectionName(3);
```

VBA Syntax

```
' Get section string name of Beam #3.
Option Explicit

   Sub Main
       Dim objOpenStaad As Object
       Dim stdFile As String
       Dim Result As String

       Set objOpenStaad = GetObject(,"StaadPro.OpenSTAAD")
       objOpenStaad.GetSTAADFile stdFile, "TRUE"
       Result = objOpenStaad.Property.GetBeamSectionName(3)
   End Sub
```

See also

OSPropertyUI::GetBeamSectionDisplayName

GetBeamSectionPropertyRefNo()

VARIANT OSPropertyUI::GetBeamSectionPropertyRefNo (const VARIANT FAR & varnBeamNo)

Returns the section property reference number of the specified beam.

Parameters

[in] **varnBeamNo** The beam number ID (Type: Int).

Return values

Section property ref number assigned to the specified beam. Zero if not found.

VBA Syntax

```
' Get the section property ref number of Beam #3.
Option Explicit

 Sub Main
     Dim objOpenStaad As Object
     Dim stdFile As String
     Dim result As Integer

     Set objOpenStaad = GetObject(,"StaadPro.OpenSTAAD")
     objOpenStaad.GetSTAADFile stdFile, "TRUE"
     result = objOpenStaad.Property.GetBeamSectionPropertyRefNo(3)
 End Sub
```

GetBeamSectionPropertyTypeNo()

VARIANT OSPropertyUI::GetBeamSectionPropertyTypeNo (const VARIANT FAR & varnBeamNo)

Gets the section property type number of the specified beam.

Parameters

[in] **varnBeamNo** The beam number.

Return values

<Val> The section property type number.

Section Type	Property Type Number
BEAM ST	610
BEAM D	616
BEAM TC	613
BEAM BC	614
BEAM TB	615
BEAM T	611
BEAM CM	612
CHANNEL ST	630
CHANNEL D	631
CHANNEL FR	633
ANGLE ST	640
ANGLE LD	642
ANGLE SD	643
ANGLE RA	641
ANGLE SA	646
PIPE ST	660
HSS RECTANGLE	654
HSS ROUND	655
CASTEL ST	656
TUBE ST	650
TEE ST	620
PLATE STRIP	666
ANGLE COLD ST	644
ANGLE COLD ST WITH LIPS	645
CHANNEL COLD ST	634

CHANNEL COLD ST WITH LIPS	635
ZEE COLD ST	662
ZEE COLD ST WITH LIPS	663
HAT COLD ST	664
TAPER	680
TAPERED TUBE	675
PRISMATIC CIRCLE	671
PRISMATIC RECT	672
PRISMATIC TRAP	674
PRISMATIC TEE	673
PRISMATIC GENERAL	676
SOLID ROUND	668
UPT PRISMATIC	699
UPT GENERAL	697
UPT WIDE FLANGE	690
UPT CHANNEL	691
UPT ANGLE	692
UPT DOUBLE ANGLE	693
UPT TEE	694
UPT PIPE	695
UPT TUBE	696
UPT ISECTION	698

Return values

0 Error.

C++ Syntax

```
// Get the assigned section property ID of Beam #3
VARIANT RetVal = OSPropertyUI::GetBeamSectionPropertyTypeNo(3);
```

VBA Syntax

```
' Get the assigned section property ID of Beam #3
Option Explicit

    Sub Main
        Dim objOpenStaad As Object
        Dim stdFile As String
        Dim result As Long
        Dim beamNo As Long
```

```
        Set objOpenStaad = GetObject(,"StaadPro.OpenSTAAD")
        objOpenStaad.GetSTAADFile stdFile, "TRUE"
        beamNo = 3
        result = objOpenStaad.property.GetBeamSectionPropertyTypeNo(beamNo)
    End Sub
```

◆ GetBeamSectionPropertyValuesEx()

VARIANT OSPropertyUI::GetBeamSectionPropertyValuesEx (const VARIANT FAR & varnBeamNo,
VARIANT FAR & varPropType,
VARIANT FAR & varProperties)

Returns the section property Values of the specified beam.

Parameters

[in]	**varnBeamNo**	The beam number ID (Type: Int/Long).
[out]	**varPropType**	Number referring to the below table(Type: Long), refer to **OSPropertyUI::GetSectionPropertyValuesEx**.
[out]	**varProperties**	A double VARIANT array for section property parameters (Type:Array size of 24 doubles).

Return values

FALSE Get the property Values generate Error.

TRUE Get the property Values Successful.

VBA Syntax

```
Option Explicit
 Sub Main
     Dim objOpenStaad As Object
     Dim stdFile As String
     Set objOpenStaad = GetObject(,"StaadPro.OpenSTAAD")
     objOpenStaad.GetSTAADFile stdFile, "TRUE"
     If stdFile="" Then
         MsgBox"Bad"
         Set objOpenStaad = Nothing
         Exit Sub
     End If
     Dim beamNo As Integer
     Dim propType As Long
     Dim props(23) As Double
     beamNo = 1
     Dim RetVal As Boolean
     ' Get the section property of Beam #1.
     RetVal = objOpenStaad.Property.GetBeamSectionPropertyValuesEx(beamNo,propType,props)
     Set objOpenStaad = Nothing
 End Sub
```

GetCountofSectionPropertyValuesEx()

VARIANT OSPropertyUI::GetCountofSectionPropertyValuesEx ( )

Returns the total count of Section Property values.

Return values

<Val> The total count of Section Property values.

C++ Syntax

```
 // Get the section property value count.
long RetVal = OSPropertyUI::GetCountofSectionPropertyValuesEx();
```

VBA Syntax

```
// Get the section property value count.
Dim result As Variant
result = objOpenStaad.Property.GetCountofSectionPropertyValuesEx
```

See also

OSPropertyUI::GetSectionPropertyValuesEx

OSPropertyUI::GetUserProvidedTableSectionProperties

GetCountryTableNo()

VARIANT OSPropertyUI::GetCountryTableNo (const VARIANT FAR & varnBeamNo)

Get The country CODE. for the specified member.

Parameters

[in] **varnBeamNo** The beam number ID.

Return values

<Val> The country CODE.

-3001 Cannot find member **varnBeamNo**.

-6022 No property is attached to the member/element.

C++ Syntax

```
// Get The country CODE. of Beam #3.
VARIANT RetVal = OSPropertyUI::GetCountryTableNo(3);
```

VBA Syntax

```
' Get The country CODE. of Beam #3.
Dim RetVal As VARIANT = OSPropertyUI.GetCountryTableNo(3)
```

◆ GetIsotropicMaterialAssignedPlateList()

VARIANT OSPropertyUI::GetIsotropicMaterialAssignedPlateList (const VARIANT & strMaterialName,
VARIANT FAR & nPlateList)

Gets the list of plate numbers which are assigned with the specified isotropic material.

Parameters

[in] **strMaterialName** Material Name(Type: String).

[out] **nPlateList** Plate No list(Type: Long Array), for size refer to **OSPropertyUI::GetIsotropicMaterialAssignedPlateCount**.

Return values

TRUE Get plate No list Successful.

FALSE Get plate No list Generate Error.

VBA Syntax

```
Option Explicit
    Sub Main
        Dim objOpenStaad As Object
        Dim stdFile As String
        Set objOpenStaad = GetObject(,"StaadPro.OpenSTAAD")
        objOpenStaad.GetSTAADFile stdFile, "TRUE"
        If stdFile="" Then
            MsgBox"Bad"
            Set objOpenStaad = Nothing
            Exit Sub
        End If
        Dim Count As Long
        Dim MaterialName as String
        MaterialName = "Q235"
        Count =
       objOpenStaad.Property.GetIsotropicMaterialAssignedPlateCount(MaterialName)
        Dim plates() As Long
        ReDim plates(Count-1) As Long
        Dim res as Boolean
        res = objOpenStaad.Property.GetIsotropicMaterialAssignedPlateList(MaterialName,
       plates)
        Set objOpenStaad = Nothing
    End Sub
```

See also

OSPropertyUI::GetIsotropicMaterialAssignedPlateCount

◆ GetPlateThickness()

VARIANT OSPropertyUI::GetPlateThickness (const VARIANT FAR & varnPlateNo,
VARIANT FAR & varfThkArray)

Get plate thickness at corners for the specified plate.

Parameters

[in] **varnPlateNo** The plate number ID.

[out] **varfThkArray** VARIANT array of the thickness for all nodes.

Return values

0 OK.

-107 Array of double expected.

-108 Array size is smaller than expected.

-4006 Invalid member number.

-6022 No property is attached to the member/element.

C++ Syntax

```
// Get the thickness of plate #3.
VARIANT RetVal = OSPropertyUI::GetPlateThickness(3, &varfThkArray);
```

VBA Syntax

```
' Get the thickness of plate #3.
Dim RetVal As VARIANT = OSPropertyUI.GetPlateThickness(3, &varfThkArray);
```

See also

OSPropertyUI::CreatePlateThicknessProperty

OSPropertyUI::CreatePlateThicknessPropertyWithID

◆ GetRecordForSection()

long OSPropertyUI::GetRecordForSection (const VARIANT FAR & Country,
LPCTSTR SectionName)

Get the Record No (Record No in Section database) in table with specific Country ID and specific Section Name.

Parameters

[in] **Country** Country ID(Type: long/Integer), please reference **OSPropertyUI::CreateBeamPropertyFromTable**.

[in] **SectionName** Section Name(Type: String).

Return values

<Val> Record No For specific Section(Type: long/Integer)

-1 Get the Record For the specific Section generate Error.

C++ Syntax

```
' Get the Record No For section "HW200X200" in "Chinese" section database.
VARIANT Retval = OSPropertyUI::GetRecordForSection(5, "HW200X200");
```

VBA Syntax

```
Option Explicit
 Sub Main
     Dim objOpenStaad As Object
     Dim stdFile As String
     Set objOpenStaad = GetObject(,"StaadPro.OpenSTAAD")
     objOpenStaad.GetSTAADFile stdFile, "TRUE"
     If stdFile="" Then
         MsgBox"Bad"
         Set objOpenStaad = Nothing
         Exit Sub
     End If
    Dim RecordNo As Integer
    ' Get the Record No For section "HW200X200" in "Chinese" section database.
    RecordNo = objOpenStaad.Property.GetRecordForSection (5, "HW200X200")
    Set objOpenStaad = Nothing
 End Sub
```

◆ GetSectionPropertyAssignedBeamCount()

VARIANT OSPropertyUI::GetSectionPropertyAssignedBeamCount (const VARIANT FAR & varProfRefNo)

Get section assigned beam count.

Parameters

[in] **varProfRefNo** Assign Profile Type:

Prof Type	Value
AssignAngle	0
AssignDoubleAngle	1
AssignBeam	2
AssignColumn	3
AssignChannel	4

Return values

<Val> The section table number.

-3001 Cannot find member **varnBeamNo**.

-6004 Section not found in profile database.

-6022 No property is attached to the member/element.

C++ Syntax

```
// Get section assigned beam Count (Profile #2).
VARIANT RetVal = OSPropertyUI::GetSectionPropertyAssignedBeamCount(2);
```

VBA Syntax

```
' Get section assigned beam Count (Profile #2).
Dim RetVal As VARIANT = OSPropertyUI.GetSectionPropertyAssignedBeamCount(2)
```

◆ GetSectionPropertyAssignedBeamList()

VARIANT OSPropertyUI::GetSectionPropertyAssignedBeamList (const VARIANT FAR & varProfRefNo,
VARIANT FAR & nBeamList)

Get section assigned beam list.

Parameters

[in] **varProfRefNo** Assign Profile Type:

Prof Type	Value
AssignAngle	0
AssignDoubleAngle	1
AssignBeam	2
AssignColumn	3
AssignChannel	4

[out] **nBeamList** List of beam.

Return values

<Val> The section table number.

-3001 Cannot find member **varnBeamNo**.

-6004 Section not found in profile database.

-6022 No property is attached to the member/element.

C++ Syntax

```
// Get section assigned beam list (Profile #2).
VARIANT RetVal = OSPropertyUI::GetSectionPropertyAssignedBeamList(2, &nBeamList);
```

VBA Syntax

```
' Get section assigned beam list (Profile #2).
Dim RetVal As VARIANT = OSPropertyUI.GetSectionPropertyAssignedBeamList(2, &nBeamList)
```

◆ GetSectionPropertyCount()

VARIANT OSPropertyUI::GetSectionPropertyCount ( )

Return total number of different sectional properties exist in the current STAAD file.

Returns

The total number of different sectional properties.

C++ Syntax

```
// Get the total number.
VARIANT SectionPropertyCount = OSPropertyUI::GetSectionPropertyCount();
```

VBA Syntax

```
' Get the total number.
Dim SectionPropertyCount As VARIANT = OSPropertyUI.GetSectionPropertyCount()
```

◆ GetSectionPropertyCountry()

VARIANT OSPropertyUI::GetSectionPropertyCountry (const VARIANT FAR & varSecRefNo)

Return the country reference number for the section property reference number specified.

Parameters

[in] **varSecRefNo** The assigned section property ID(Type: long/Integer).

Return values

<Val> Country CODE(Type: long/Integer), please reference **OSPropertyUI::CreateBeamPropertyFromTable**

-6025 No property is defined in the model.

C++ Syntax

```
// Get the country CODE
VARIANT Retval = OSPropertyUI::GetSectionPropertyCountry(2);
```

VBA Syntax

```
' Get the section property type.
Dim RetVal As VARIANT = OSPropertyUI.GetSectionPropertyCountry(2)
```

◆ GetSectionPropertyList()

VARIANT OSPropertyUI::GetSectionPropertyList (VARIANT FAR & nPropList)

Gets the list of Section Property Reference IDs.

Parameters

[out] **nPropList** List of Section Property refrence IDs (Type: Long Array), for list size refer **OSPropertyUI::GetSectionPropertyCount**.

Return values

FALSE Get Section Property refrence IDs generate Error.

TRUE Get Section Property refrence IDs Successful.

VBA Syntax

```
Option Explicit
    Sub Main
        Dim objOpenStaad As Object
        Dim stdFile As String
        Set objOpenStaad = GetObject(,"StaadPro.OpenSTAAD")
        objOpenStaad.GetSTAADFile stdFile, "TRUE"
        If stdFile="" Then
            MsgBox"Bad"
            Set objOpenStaad = Nothing
            Exit Sub
        End If
        Dim propCount As Long
        propCount =  objOpenStaad.Property.GetSectionPropertyCount
        Dim props() As Long
        ReDim  props(propCount-1) As Long
        Dim retVal As Boolean
        retVal =objOpenStaad.Property.GetSectionPropertyList(props)
        Set objOpenStaad = Nothing
    End Sub
```

◆ GetSectionPropertyName()

VARIANT OSPropertyUI::GetSectionPropertyName (const VARIANT FAR & varSecRefNo,
VARIANT FAR & varstrName)

Get the property name for the specified section property reference number.

Parameters

[in] **varSecRefNo** The assigned section property ID.

[out] **varstrName** Identification title of material.

Return values

0 OK.

-1 General error.

-6025 No property is defined in the model.

C++ Syntax

```
// Get section name of section property #3.
VARIANT RetVal = OSPropertyUI::GetSectionPropertyName(3, &varstrName);
```

VBA Syntax

```
' Get section name of section property #3.
Dim RetVal As VARIANT = OSPropertyUI.GetSectionPropertyName(3, &varstrName)
```

◆ GetSectionPropertyType()

VARIANT OSPropertyUI::GetSectionPropertyType (const VARIANT FAR & varSecRefNo)

Return the section property type for the specified section property reference number.

Parameters

[in] **varSecRefNo** The assigned section property ID.

Return values

<Val> Number referring to *Section Type Code* table.

-6025 No property is defined in the model.

C++ Syntax

```
 // Get the section property type.
VARIANT Retval = OSPropertyUI::GetSectionPropertyType(2);
```

VBA Syntax

```
' Get the section property type.
Dim RetVal As VARIANT = OSPropertyUI.GetSectionPropertyType(2)
```

◆ GetSectionPropertyValues()

```
VARIANT OSPropertyUI::GetSectionPropertyValues ( const VARIANT FAR & varProfRefNo,
                                                 VARIANT FAR &       varfWidth,
                                                 VARIANT FAR &       varfDepth,
                                                 VARIANT FAR &       varfAx,
                                                 VARIANT FAR &       varfAy,
                                                 VARIANT FAR &       varfAz,
                                                 VARIANT FAR &       varfIx,
                                                 VARIANT FAR &       varfIy,
                                                 VARIANT FAR &       varfIz,
                                                 VARIANT FAR &       varfTf,
                                                 VARIANT FAR &       varfTw )
```

Retrieve long member properties of the specified beam member.

Parameters

`[in]` **varProfRefNo** Assign Profile Type:

Prof Type	Value
AssignAngle	0
AssignDoubleAngle	1
AssignBeam	2
AssignColumn	3
AssignChannel	4

`[out]` **varfWidth** Width of the section (**WID**).

`[out]` **varfDepth** Depth of the section (**DEP**).

`[out]` **varfAx** Cross section area (**Ax**).

`[out]` **varfAy** Shear area in local y-axis. If zero, shear deformation is ignored in the analysis (**Ay**).

`[out]` **varfAz** Shear area in local z-axis. If zero, shear deformation is ignored in the analysis (**Az**).

`[out]` **varfIx** Moment of inertia about local z-axis (**Ix**).

`[out]` **varfIy** Moment of inertia about local y-axis (**Iy**).

`[out]` **varfIz** Torsional constant (**Iz**).

`[out]` **varfTf** Thickness of top flange (**Tf**).

`[out]` **varfTw** Thickness of web (**Tw**).

Return values

0 OK.

-3001 Cannot find member **nMemberNo**.

-6022 No property is attached to the member/element.

C++ Syntax

```
// varfWidth, varfDepth, varfAx, varfAy, varfAz, varfIx, varfIy, varfIz, varfTf and
       varfTw.
// Get all properties of beam #4.
VARIANT RetVal = OSPropertyUI::GetSectionPropertyValues(4, &varfWidth, &varfDepth,
       &varfAx, &varfAy, &varfAz, &varfIx, &varfIy, &varfIz, &varfTf, &varfTw);
```

VBA Syntax

```
' varfWidth, varfDepth, varfAx, varfAy, varfAz, varfIx, varfIy, varfIz, varfTf and
       varfTw.
' Get all properties of beam #4.
Dim RetVal As VARIANT = OSPropertyUI.GetSectionPropertyValues(4, &varfWidth, &varfDepth,
       &varfAx, &varfAy, &varfAz, &varfIx, &varfIy, &varfIz, &varfTf, &varfTw)
```

See also

OSPropertyUI::GetBeamProperty

◆ GetSectionPropertyValuesEx()

VARIANT OSPropertyUI::GetSectionPropertyValuesEx (const VARIANT FAR & varProfRefNo,
VARIANT FAR & varPropType,
VARIANT FAR & varPropValues)

Get all parameters of a specified section property by section property ID.

Parameters

`[in]` **propNo** Section property ID.

`[out]` **propType** Number referring to the below table.

`[out]` **propValues** A double VARIANT array for section property parameters (get array size by calling the API **OSPropertyUI::GetCountofSectionPropertyValuesEx**.

Section Type	propType	propValues
BEAM ST	610	Ax D Bf Tf Tw Iz Iy Ix
BEAM D	616	D Bf Tf Tw Iz Iy Ix SP
BEAM TC	613	Ax D Bf Tf Tw Iz Iy Ix WP TH
BEAM BC	614	Ax D Bf Tf Tw Iz Iy Ix WP TH
BEAM TB	615	Ax D Bf Tf Tw Iz Iy Ix WP TH BW BT
BEAM T	611	Ax D Bf Tf Tw Iz Iy Ix
BEAM CM	612	Ax D Bf Tf Tw Iz Iy Ix CT FC CW CD
CHANNEL ST	630	Ax D Bf Tf Tw Iz Iy Ix
CHANNEL D	631	Ax D Bf Tf Tw Iz Iy Ix SP
CHANNEL FR	633	Ax D Bf Tf Tw Iz Iy Ix FR
ANGLE ST	640	Ax D B T Iz Iy Ix
ANGLE LD	642	Ax D B T Iz Iy Ix LD
ANGLE SD	643	Ax D B T Iz Iy Ix SD
ANGLE RA	641	Ax D B T Iz Iy Ix
ANGLE SA	646	Ax D B T Iz Iy Ix
PIPE ST	660	Ax OD Tw Iz Iy Ix
HSS RECTANGLE	654	Ax D B T Iz Iy Ix
HSS ROUND	655	Ax OD Tw Iz Iy Ix
CASTEL ST	656	Ax D Bf Tf Tw Iz Iy Ix
TUBE ST	650	Ax D B T Iz Iy Ix
TEE ST	620	Ax D Bf Tf Tw Iz Iy Ix
PLATE STRIP	666	Ax D B Iz Iy Ix
ANGLE COLD ST	644	Ax D B T Iz Iy Ix R Ay Az

ANGLE COLD ST WITH LIPS	645	Ax D B T Iz Iy Ix R LIP Ay Az
CHANNEL COLD ST	634	Ax D Bf T R Iz Iy Ix Ay Az
CHANNEL COLD ST WITH LIPS	635	Ax D Bf T R Iz Iy Ix LIP Ay Az
ZEES COLD ST	662	Ax D B T R Iz Iy Ix Ay Az
ZEES COLD ST WITH LIPS	663	Ax D B T LIP LIP_Angle R Iz Iy Ix Ay Az
HAT COLD ST	664	Ax D B T BOT_F R Iz Iy Ix Ay Az
TAPER	680	F1 F2 F3 F4 F5 F6 F7
TAPERED TUBE	675	Ax Iz Iy Ix D1 D2 TH SECTION_TYPE
		SECTION_TYPE(1 TO 6 for Round,Hexdecagonal,Dodecagonal,Octagonal,Hexagonal,Square respectively)
PRISMATIC CIRCLE	671	Ax Iz Iy Ix YD
PRISMATIC RECT	672	Ax Iz Iy Ix YD ZD
PRISMATIC TRAP	674	Ax Iz Iy Ix YD ZD ZB
PRISMATIC TEE	673	Ax Iz Iy Ix YD ZD YB ZB
PRISMATIC GENERAL	676	Ax Ay Az Ix Iy Iz YD ZD YB ZB
SOLID ROUND	668	Ax OD Tw Iz Iy Ix Z
UPT PRISMATIC	699	Ax Iz Iy Ix Ay Az YD ZD
UPT GENERAL	697	Ax D Td B Tb Iz Iy Ix Sz Sy Ay Az Pz Py Hss Dee
UPT WIDE FLANGE	690	Ax D Tw Wf Tf Iz Iy Ix Ay Az Wf1 Tf1
UPT CHANNEL	691	Ax D Tw Wf Tf Iz Iy Ix Cz Ay Az
UPT ANGLE	692	Ax D Wf Tf R Ay Az Iz Iy Ix
UPT DOUBLE ANGLE	693	Ax D Wf Tf SP Iz Iy Ix Cy Ay Az
UPT TEE	694	Ax D Wf Tf Tw Iz Iy Ix Cy Ay Az
UPT PIPE	695	Ax OD ID Ay Az Iz Iy Ix
UPT TUBE	696	Ax D Wf Tf Iz Iy Ix Ay Az
UPT ISECTION	698	Dww Tww Dww1 Bff Tff Bff1 Tff1 Ayf Azf Xif

Return values

1 OK.

0 Error.

C++ Syntax

```
// Get section property parameters of section #1
long RetVal = OSPropertyUI::GetSectionPropertyValuesEx(1, &propType, &propValues);
```

VBA Syntax

```
Option Explicit

    Sub Main
        Dim objOpenStaad As Object
        Dim stdFile As String
        Dim count As Long
        Dim pType As Long
        Dim SectionId As Long
        Dim propValues() As Double
        Dim Result As Long

        Set objOpenStaad = GetObject(,"StaadPro.OpenSTAAD")
        objOpenStaad.GetSTAADFile stdFile, "TRUE"
        SectionId = 1
        count = objOpenStaad.Property.GetCountofSectionPropertyValuesEx()
        ReDim propValues(count - 1)
        Result =
       objOpenStaad.Property.GetSectionPropertyValuesEx(SectionId,pType,propValues)
    End Sub
```

◆ GetSectionTableNo()

VARIANT OSPropertyUI::GetSectionTableNo (const VARIANT FAR & varnBeamNo)

Get section table number.

Parameters

[in] **varnBeamNo** The beam number ID.

Return values

<Val> The section table number.

-3001 Cannot find member **varnBeamNo**.

-6004 Section not found in profile database.

-6022 No property is attached to the member/element.

C++ Syntax

```
// Get section table number of Beam #3.
VARIANT RetVal = OSPropertyUI::GetSectionTableNo(3);
```

VBA Syntax

```
' Get section table number of Beam #3.
Dim RetVal As VARIANT = OSPropertyUI.GetSectionTableNo(3)
```

◆ GetShapeCode()

long OSPropertyUI::GetShapeCode (const VARIANT FAR & Country,
LPCTSTR SectionName)

Get the Shape Code with specific Country and specific Section Name.

Parameters

[in] **Country** Country ID(Type: long/Integer), please reference **OSPropertyUI::CreateBeamPropertyFromTable**.

[in] **SectionName** Section Name(Type: String).

Return values

<Val> Shape Code(Type: long/Integer)

-1 Get the Shape Code generate Error.

Country	Shape Code
American	1 for "Wshape", 2 for "MShape", 3 for "SShape", 4 for "HPShape", 5 for "BShape", 6 for "Channel", 7 for "MCChannel", 8 for "Angle", 9 for "Tube", 10 for "Pipe", 11 for "HSSRectangle", 12 for "HSSRound", 13 for "CastellatedNonCompBeam", 14 for "CastellatedCompBeam", 15 for "RodShape", 16 for "CableShape", 23 for "HSSRectangleA1085", 24 for "HSSRoundA1085",
Mexican	1 for "IEShape", 2 for "IRShape", 3 for "ISShape", 4 for "CEChannel", 5 for "LDAngle", 6 for "LIAngle", 7 for "OCPipe", 8 for "ORTube", 9 for "ORTubeR"
Australian	1 for "UBShape", 2 for "UCShape", 3 for "WBShape", 4 for "WCShape", 5 for "Channel", 6 for "Angle"
British	1 for "UBShape", 2 for "UCShape", 3 for "UPShape", 4 for "JOShape", 5 for "Channel", 6 for "Angle", 7 for "Tube", 8 for "Pipe"
Canadian	1 for "Wshape", 2 for "MShape", 3 for "SShape", 4 for "HPShape", 5 for "WWShape", 6 for "Channel", 7 for "MCChannel", 8 for "Angle", 9 for "Tube", 10 for "Pipe", 11 for "HSSRect", 12 for "HSSRound"
Chinese	1 for "IShape", 2 for "Channel", 3 for "Angle", 4 for "Tube", 5 for "Pipe", 6 for "TShape", 7 for "HShape"
Dutch	1 for "HEShape", 2 for "IPEShape", 3 for "IPNShape", 4 for "UPNChannel", 5 for "Angle", 6 for "Tube", 7 for "Pipe", 8 for "PlateStrip", 9 for "SolidRound", 10 for "SolidSquare"
European	1 for "IPEShape", 2 for "HEShape", 3 for "DILShape", 4 for "IPNShape", 5 for "UChannel", 6 for "UPNChannel", 7 for "Angle", 8 for "Tube", 9 for "Pipe", 10 for "BulbFlat", 11 for "FlatBar", 12 for "HDShape", 13 for "HLShape", 14 for "HPShape", 15 for "SolidSquare", 16 for "UPEChannel", 17 for "UAPChannel", 18 for "Rhs", 19 for "Shs", 20 for "Chs",

French	1 for "IPEShape", 2 for "HEShape", 3 for "IPNShape", 4 for "Channel", 5 for "Angle", 6 for "Tube", 7 for "Pipe"
German	1 for "IPEShape", 2 for "HEShape", 3 for "IShape", 4 for "UChannel", 5 for "Angle", 6 for "Tube", 7 for "Pipe"
Indian	1 for "SShape", 2 for "IShape", 3 for "MShape", 4 for "WShape", 5 for "TShape", 6 for "Channel", 7 for "Angle", 8 for "Tube", 9 for "Pipe", 10 for "WPBShape", 11 for "NPBShape"
Brazilian	1 for "IShape", 2 for "WHShape", 3 for "WIShape", 4 for "TShape", 5 for "Channel", 6 for "Angle", 7 for "Rhs", 8 for "Shs", 9 for "Chs", 10 for "Pipe", 11 for "Cs", 12 for "Cvs", 13 for "Vs", 14 for "SShape"
Japanese	1 for "HShape", 2 for "IShape", 3 for "TShape", 4 for "Channel", 5 for "Angle", 6 for "Tube", 7 for "Pipe", 8 for "Rhs", 9 for "Shs", 10 for "Chs", 11 for "CTShape", 51 for "HShapeOld", 52 for "TShapeOld"
Russian	1 for "BShape", 2 for "SHShape", 3 for "KShape", 4 for "IShape", 5 for "Channel", 6 for "Angle", 7 for "Tube", 8 for "Pipe"
SouthAfrican	1 for "IShape", 2 for "HShape", 3 for "PGShape", 4 for "CChannel", 5 for "Angle", 6 for "Tube", 7 for "Pipe"
Spanish	1 for "IPEShape", 2 for "HEShape", 3 for "IPNShape", 4 for "Channel", 5 for "Angle", 6 for "Tube", 7 for "Pipe"
Venezuelan	1 for "Beam", 2 for "Channel", 3 for "Angle", 4 for "Tube", 5 for "Pipe"
Korean	1 for "WShape", 2 for "HShape", 3 for "IShape", 4 for "WTShape", 5 for "Channel", 6 for "Angle", 7 for "Pipe", 8 for "Tube"
Aluminum	1 for "AAStandardIBeams", 2 for "HBeam", 3 for "ArmyNavyIBeam", 4 for "AmericanStandardIBeam", 5 for "IBeam", 6 for "AAStandardChannel", 7 for "Channel", 8 for "ArmyNavyChannel", 9 for "SpecialChannel", 10 for "AmericanStandardChannel", 11 for "EqualLegAngle", 12 for "SquareEndEqualLegAngle", 13 for "UnequalLegAngle", 14 for "SquareEndUnequalLegAngle", 15 for "SquareTube", 16 for "RectangularTube", 17 for "RoundTube"
UserTable	1 for "WideFlange", 2 for "Channel", 3 for "Angle", 4 for "DblAngle", 5 for "Tee", 6 for "Pipe", 7 for "Tube", 8 for "General", 9 for "ISection", 10 for "Prismatic"
AmericanColdFormed	1 for "Angle", 2 for "AngleS", 3 for "Channel", 4 for "ChannelS", 5 for "Zee", 6 for "ZeeS", 7 for "Hat", 8 for "Pipe", 9 for "Tube"
RCecoColdFormed(Reserved)	1 for "Angle", 2 for "AngleS", 3 for "Channel", 4 for "ChannelS", 5 for "Zee", 6 for "ZeeS", 7 for "Hat", 8 for "Pipe", 9 for "Tube", 10 for "EaveStrut" (Reserved)
Lysaght	4 for "ChannelS", 6 for "ZeeS"
IndianColdFormed	1 for "Angle", 2 for "AngleS", 3 for "Channel", 4 for "ChannelS", 5 for "Zee", 6 for "ZeeS", 7 for "Hat"

BritishColdFormed	1 for "Angle", 2 for "AngleS", 3 for "Channel", 4 for "ChannelS", 5 for "Zee", 6 for "ZeeS", 7 for "Hat", 8 for "Pipe", 9 for "Tube"
AustralianColdFormed	1 for "RHS", 2 for "SHS", 3 for "CHS"
EuropeanColdFormed	1 for "RHS", 2 for "SHS", 3 for "CHS"
KingspanColdFormed	1 for "Angle", 2 for "AngleS", 3 for "Channel", 4 for "ChannelS", 5 for "Zee", 6 for "ZeeS", 7 for "Hat", 8 for "Pipe", 9 for "Tube"
JapaneseColdFormed	11 for "BCP", 12 for "BCPT", 13 for "BCR"
RusColdFormed	8 for "Pipe"
AITC-Timber	1 for "GluedLaminatedTimber", 2 for "Aspen", 3 for "BalsamFir", 4 for "BeechBirchHickory", 5 for "CoastSitkaSpruce", 6 for "Cottonwood", 7 for "DouglasFirLarch", 8 for "DouglasFirLarchNorth", 9 for "DouglasFirLarchSouth", 10 for "EasternHemlock", 11 for "EasternHemlockTamarack", 12 for "EasternHemlockTamarackN", 13 for "EasternSoftwoods", 14 for "EasternSpruce", 15 for "EasternWhitePine", 16 for "HemFir", 17 for "HemFirNorth", 18 for "MixedMaple", 19 for "MixedOak", 20 for "MixedSouthernPine", 21 for "MountainHemlock", 22 for "NorthernPine", 23 for "NorthernRedOak", 24 for "NorthernSpecies", 25 for "NorthernWhiteCedar", 26 for "PonderosaPine", 27 for "RedMaple", 28 for "RedOak", 29 for "RedPine", 30 for "Redwood", 31 for "SitkaSpruce", 32 for "SouthernPine", 33 for "SprucePineFir", 34 for "SprucePineFirSouth", 35 for "WesternCedars", 36 for "WesternCedarsNorth", 37 for "WesternHemlock", 38 for "WesternHemlockNorth", 39 for "WesternWhitePine", 40 for "WesternWoods", 41 for "WhiteOak", 42 for "YellowPoplar"
American Steel Joist	1 for "Kjoist", 2 for "KCSJoist", 3 for "LHJoist", 4 for "DLHJoist", 5 for "JoistGirder"
Generic	1 for "WShape", 2 for "TShape", 3 for "Channel", 4 for "Angle", 5 for "Tube", 6 for "Pipe", 7 for "Rectangle", 8 for "Round", 9 for "Zee", 20 for "General"
Canadian Timber	1 for "GluedLaminatedTimber", 2 for "DouglasFirLarch", 3 for "HemFir", 4 for "NorthernSpecies", 5 for "SprucePineFir"
Butler	4 for "EaveStrut", 6 for "ZeePurlin", 9 for "BoxStrut", 10 for "WideFlange", 11 for "TaperedWideFlange", 12 for "SolidRound"
Jindal	1 for "UBShape", 2 for "HEShape", 3 for "IPEShape", 4 for "UCShape", 5 for "ISMCShape", 6 for "WPBShape", 7 for "NPBShape"
Tata Structura	1 for "Rhs", 2 for "Shs", 3 for "Chs"
APL Apollo Tubes	1 for "Rhs", 2 for "Shs", 3 for "Chs"

C++ Syntax

```
' Get the shape code of section "HW200X200" in "Chinese" section database.
VARIANT Retval = OSPropertyUI::GetShapeCode(5, "HW200X200");
```

VBA Syntax

```
Option Explicit
    Sub Main
        Dim objOpenStaad As Object
        Dim stdFile As String
        Set objOpenStaad = GetObject(,"StaadPro.OpenSTAAD")
        objOpenStaad.GetSTAADFile stdFile, "TRUE"
        If stdFile="" Then
            MsgBox"Bad"
            Set objOpenStaad = Nothing
            Exit Sub
        End If
        Dim shapeCode As Integer
        ' Get the shape code of section "HW200X200" in "Chinese" section database.
        shapeCode = objOpenStaad.Property.GetShapeCode (5, "HW200X200")
        Set objOpenStaad = Nothing
    End Sub
```

◆ GetThicknessPropertyAssignedPlateCount()

VARIANT OSPropertyUI::GetThicknessPropertyAssignedPlateCount (const VARIANT FAR & varProfRefNo)

Gets the count of plates which are assigned with the specified Thickness Property reference ID.

Parameters

[in] **Thickness** Property reference ID(Type: Long).

Returns

Count of plates which are assigned with the specified Thickness Property reference ID(Type:Long).

VBA Syntax

```
Option Explicit
    Sub Main
        Dim objOpenStaad As Object
        Dim stdFile As String
        Set objOpenStaad = GetObject(,"StaadPro.OpenSTAAD")
        objOpenStaad.GetSTAADFile stdFile, "TRUE"
        If stdFile="" Then
            MsgBox"Bad"
            Set objOpenStaad = Nothing
            Exit Sub
        End If
        Dim count As Integer
        count = objOpenStaad.Property.GetThicknessPropertyAssignedPlateCount(1)
        Set objOpenStaad = Nothing
    End Sub
```

See also

OSPropertyUI::GetThicknessPropertyCount

OSPropertyUI::GetThicknessPropertyList

OSPropertyUI::GetThicknessPropertyAssignedPlateList

◆ GetThicknessPropertyAssignedPlateList()

VARIANT OSPropertyUI::GetThicknessPropertyAssignedPlateList (const VARIANT FAR & varProfRefNo,
VARIANT FAR & nPlateList)

Gets the list of plate numbers which are assigned with the specified Thickness Property reference ID.

Parameters

[in] **varProfRefNo** the specific Thickness Property reference ID(Type: Long).

[out] **nPlateList** Plate No list(Type: Long Array), for size refer to **OSPropertyUI::GetThicknessPropertyAssignedPlateCount**.

Return values

TRUE Get plate No list Successful.

FALSE Get plate No list Generate Error.

VBA Syntax

```
Option Explicit
    Sub Main
        Dim objOpenStaad As Object
        Dim stdFile As String
        Set objOpenStaad = GetObject(,"StaadPro.OpenSTAAD")
        objOpenStaad.GetSTAADFile stdFile, "TRUE"
        If stdFile="" Then
            MsgBox"Bad"
            Set objOpenStaad = Nothing
            Exit Sub
        End If
        Dim propID As Integer
        propID = 1
        Dim count As Integer
        count = objOpenStaad.Property.GetThicknessPropertyAssignedPlateCount(propID)
        Dim plates() As Long
        ReDim plates(count-1) As Long
        Dim res as Boolean
        res = objOpenStaad.Property.GetThicknessPropertyAssignedPlateList(propID, plates)
        Set objOpenStaad = Nothing
    End Sub
```

See also

OSPropertyUI::GetThicknessPropertyAssignedPlateCount

OSPropertyUI::GetThicknessPropertyCount

OSPropertyUI::GetThicknessPropertyList

◆ GetThicknessPropertyCount()

VARIANT OSPropertyUI::GetThicknessPropertyCount ( )

Get Thickness Property Count.

Returns

Thickness Property Count.

VBA Syntax

```
Option Explicit
    Sub Main
        Dim objOpenStaad As Object
        Dim stdFile As String
        Set objOpenStaad = GetObject(,"StaadPro.OpenSTAAD")
        objOpenStaad.GetSTAADFile stdFile, "TRUE"
        If stdFile="" Then
            MsgBox"Bad"
            Set objOpenStaad = Nothing
            Exit Sub
        End If
        Dim count As Integer
        count = objOpenStaad.Property.GetThicknessPropertyCount()
        Set objOpenStaad = Nothing
    End Sub
```

See also

OSPropertyUI::GetThicknessPropertyList

OSPropertyUI::GetPlateThickness

◆ GetThicknessPropertyList()

VARIANT OSPropertyUI::GetThicknessPropertyList (VARIANT FAR & nPropList)

Get Thickness Property ID list.

Parameters

[out] **Thickness** Property ID list(Type: Long Array), for size refer to **OSPropertyUI::GetThicknessPropertyCount**.

Return values

TRUE Get Thickness Property list Successful.

FALSE Get Thickness Property list Generate Error.

VBA Syntax

```
Option Explicit
    Sub Main
        Dim objOpenStaad As Object
        Dim stdFile As String
        Set objOpenStaad = GetObject(,"StaadPro.OpenSTAAD")
        objOpenStaad.GetSTAADFile stdFile, "TRUE"
        If stdFile="" Then
            MsgBox"Bad"
            Set objOpenStaad = Nothing
            Exit Sub
        End If
        Dim count As Integer
        count = objOpenStaad.Property.GetThicknessPropertyCount()
        Dim props() As Long
        ReDim props(count-1) As Long
        Dim res as Boolean
        res = objOpenStaad.Property.GetThicknessPropertyList(props)
        Set objOpenStaad = Nothing
    End Sub
```

See also

OSPropertyUI::GetThicknessPropertyCount

OSPropertyUI::GetPlateThickness

◆ GetThicknessPropertyValues()

VARIANT OSPropertyUI::GetThicknessPropertyValues (const VARIANT FAR & varProfRefNo,
VARIANT FAR & dThkList)

Get Thickness Property Values.

Parameters

[in] **varProfRefNo** the specific Thickness Property refernce ID(Type: Long).

[out] **dThkList** Thickness value list(Type: Double Array), array of size 4.

Return values

0 Get Thickness Property Value Generate Error.

4 Get Thickness Property Value Successful.

VBA Syntax

```
Option Explicit
    Sub Main
        Dim objOpenStaad As Object
        Dim stdFile As String
        Set objOpenStaad = GetObject(,"StaadPro.OpenSTAAD")
        objOpenStaad.GetSTAADFile stdFile, "TRUE"
        If stdFile="" Then
            MsgBox"Bad"
            Set objOpenStaad = Nothing
            Exit Sub
        End If
        Dim propID As Integer
        propID = 1
        Dim thickness(3) As Double
        Dim res As Long
        res = objOpenStaad.Property.GetThicknessPropertyValues(propID, thickness)
        Set objOpenStaad = Nothing
    End Sub
```

See also

OSPropertyUI::GetThicknessPropertyCount

OSPropertyUI::GetThicknessPropertyList

◆ RemoveMaterialFromPlate()

VARIANT OSPropertyUI::RemoveMaterialFromPlate (const VARIANT FAR & nPlateNo)

Remove Material From the specific Plates.

Parameters

[in] **nPlateNo** Plates ID(Type: Long Array).

Return values

FALSE Remove Material Generate Error.

TRUE Remove Material Successful.

VBA Syntax

```
Option Explicit
    Sub Main
        Dim objOpenStaad As Object
        Dim stdFile As String
        Set objOpenStaad = GetObject(,"StaadPro.OpenSTAAD")
        objOpenStaad.GetSTAADFile stdFile, "TRUE"
        If stdFile="" Then
            MsgBox"Bad"
            Set objOpenStaad = Nothing
            Exit Sub
        End If
        Dim res As Boolean
        Dim plate(1) as Long
        plate(0) = 282
        plate(1) = 283
        res = objOpenStaad.Property.RemoveMaterialFromPlate(plate)
        Set objOpenStaad = Nothing
    End Sub
```

See also

OSPropertyUI::GetThicknessPropertyCount

OSPropertyUI::GetThicknessPropertyList

◆ RemoveMaterialFromSolid()

VARIANT OSPropertyUI::RemoveMaterialFromSolid (const VARIANT FAR & nSolidNo)

Remove Material From the specific Solids.

Parameters

[in] **nSolidNo** Solids ID(Type: Long Array).

Return values

FALSE Remove Material Generate Error.

TRUE Remove Material Successful.

VBA Syntax

```
Option Explicit
    Sub Main
        Dim objOpenStaad As Object
        Dim stdFile As String
        Set objOpenStaad = GetObject(,"StaadPro.OpenSTAAD")
        objOpenStaad.GetSTAADFile stdFile, "TRUE"
        If stdFile="" Then
            MsgBox"Bad"
            Set objOpenStaad = Nothing
            Exit Sub
        End If
        Dim res As Boolean
        Dim solid(1) as Long
        solid(0) = 282
        solid(1) = 283
        res = objOpenStaad.Property.RemoveMaterialFromSolid(solid)
        Set objOpenStaad = Nothing
    End Sub
```

See also

OSPropertyUI::GetThicknessPropertyCount

OSPropertyUI::GetThicknessPropertyList

◆ RemovePropertyFromPlate()

VARIANT OSPropertyUI::RemovePropertyFromPlate (const VARIANT FAR & nPlateNo)

Remove Thickness Property From the specific Plate.

Parameters

[in] **nPlateNo** Plate ID(Type: Long).

Return values

FALSE Remove Thickness Property Generate Error.

TRUE Remove Thickness Property Successful.

VBA Syntax

```
Option Explicit
    Sub Main
        Dim objOpenStaad As Object
        Dim stdFile As String
        Set objOpenStaad = GetObject(,"StaadPro.OpenSTAAD")
        objOpenStaad.GetSTAADFile stdFile, "TRUE"
        If stdFile="" Then
            MsgBox"Bad"
            Set objOpenStaad = Nothing
            Exit Sub
        End If
        Dim res As Boolean
        res = objOpenStaad.Property.RemovePropertyFromPlate(282)
        Set objOpenStaad = Nothing
    End Sub
```

See also

OSPropertyUI::GetThicknessPropertyCount

OSPropertyUI::GetThicknessPropertyList