

# Geometry: Plate

## Geometry

### Functions

afx\_msg void **OSGeometryUI::CreatePlate** (const VARIANT FAR &nPlateNo, const VARIANT FAR &nNodeA, const VARIANT FAR &nNodeB, const VARIANT FAR &nNodeC, const VARIANT FAR &nNodeD)  
Creates a plate with specified existing nodes in current model.

afx\_msg VARIANT **OSGeometryUI::AddPlate** (const VARIANT FAR &nNodeA, const VARIANT FAR &nNodeB, const VARIANT FAR &nNodeC, const VARIANT FAR &nNodeD)  
Adds a plate with specified existing nodes in current model, and returns the plate number ID automatically assigned with.

afx\_msg void **OSGeometryUI::DeletePlate** (const VARIANT FAR &nPlateNo)  
Delete a specified plate.

afx\_msg VARIANT **OSGeometryUI::GetLastPlateNo** ()  
Returns the plate number ID of the last plate in the model.

afx\_msg VARIANT **OSGeometryUI::GetNoOfSelectedPlates** ()  
Returns the number of selected plate(s).

afx\_msg void **OSGeometryUI::GetSelectedPlates** (VARIANT FAR &naPlateNos, VARIANT FAR &nIsSorted)  
Returns a list of selected plate(s).

afx\_msg VARIANT **OSGeometryUI::SelectMultiplePlates** (const VARIANT FAR &naPlateNos)  
Selects multiple plate(s) in current model.

afx\_msg VARIANT **OSGeometryUI::SelectPlate** (const VARIANT FAR &nPlateNo)  
Selects the specified plate in current model.

afx\_msg void **OSGeometryUI::CreateMultiplePlates** (const VARIANT FAR &nPlateIds, const VARIANT FAR &nPlateIncidences)  
Create multiple plates with specified node number ID(s).

afx\_msg void **OSGeometryUI::AddMultiplePlates** (const VARIANT FAR &naIncidences)  
Add multiple plates with specified node number ID(s).

afx\_msg VARIANT **OSGeometryUI::GetPlateCount** ()  
Returns the total number of plates in the current model.  
Note: Count of plates can vary depending upon the flag set for consideration of hidden entities (see **OSGeometryUI::SetFlagForHiddenEntities**).

afx\_msg void **OSGeometryUI::GetPlateList** (VARIANT FAR &nPlateList)  
Returns a list of all the plate ID(s) the current model.  
Note: List of plates can be different depending upon the flag set for consideration of hidden entities (see **OSGeometryUI::SetFlagForHiddenEntities**).

afx_msg VARIANT	<b>OSGeometryUI::GetPlateIncidence</b> (const VARIANT FAR &nPlateNo, VARIANT FAR &nNodeA, VARIANT FAR &nNodeB, VARIANT FAR &nNodeC, VARIANT FAR &nNodeD) Returns the number ID(s) of connecting node(s) for specified plate.
afx_msg void	<b>OSGeometryUI::ClearPlateSelection</b> () Unselect all the plate item(s).
afx_msg void	<b>OSGeometryUI::SetPlateUniqueID</b> (const VARIANT FAR &nPlateNo, const VARIANT FAR &szName) Assigns an unique string ID (GUID) to specified plate.
afx_msg VARIANT	<b>OSGeometryUI::GetPlateUniqueID</b> (const VARIANT FAR &nPlateNo) Returns the unique string ID (GUID) for specified plate.
afx_msg VARIANT	<b>OSGeometryUI::GetPlateIncidence_CIS2</b> (const VARIANT FAR &nPlateNo, VARIANT FAR &szName, VARIANT FAR &nNodeA, VARIANT FAR &nNodeB, VARIANT FAR &nNodeC, VARIANT FAR &nNodeD) Returns the number ID(s) of connecting node(s) for specified plate.
afx_msg VARIANT	<b>OSGeometryUI::GetPlateNodeCount</b> (const VARIANT FAR &varnPlateNo) Returns the number of nodes provided with for plate connectivity.
afx_msg VARIANT	<b>OSGeometryUI::GetAreaOfPlates</b> (const VARIANT FAR &varPlateNos, VARIANT FAR &varPlatesArea) Returns an array of areas of specified plates.

## Detailed Description

These functions are related to operations of creating, adding, getting and deleting plate(s).

## Function Documentation

### ◆ AddMultiplePlates()

void OSGeometryUI::AddMultiplePlates ( const VARIANT FAR & naIncidences )

private

Add multiple plates with specified node number ID(s).

### Parameters

[in] **naIncidences** VARIANT array of m \* 4 dimension containing plate connectivity: [NodeA<sub>i</sub>, NodeB<sub>i</sub>, NodeC<sub>i</sub>, NodeD<sub>i</sub>].

### C++ Syntax

```
// Add multiple plates.  
OSGeometryUI::AddMultiplePlates(naIncidences);
```

### VBA Syntax

```
' Add multiple plates.  
OSGeometryUI.AddMultiplePlates(naIncidences)
```

### See also

[OSGeometryUI::CreatePlate](#)

[OSGeometryUI::AddPlate](#)

[OSGeometryUI::DeletePlate](#)

## ◆ AddPlate()

```
VARIANT OSGeometryUI::AddPlate ( const VARIANT FAR & nNodeA,
                                const VARIANT FAR & nNodeB,
                                const VARIANT FAR & nNodeC,
                                const VARIANT FAR & nNodeD )
```

private

Adds a plate with specified existing nodes in current model, and returns the plate number ID automatically assigned with.

### Parameters

[in] **nNodeA** Number ID of end node (**node<sub>A</sub>**) for plate connectivity.

[in] **nNodeB** Number ID of end node (**node<sub>B</sub>**) for plate connectivity.

[in] **nNodeC** Number ID of end node (**node<sub>C</sub>**) for plate connectivity.

[in] **nNodeD** Number ID of end node (**node<sub>D</sub>**) for plate connectivity.

### Return values

**0** OK.

**-1** General error.

**-2001** Cannot find Node(s).

**-4004** Unable to add plate.

### C++ Syntax

```
long nNodeA = 2;
long nNodeB = 3;
long nNodeC = 4;
long nNodeD = 5;
// Add a plate between node 2, 3, 4 and 5.
VARIANT RetVal = OSGeometryUI::AddPlate(nNodeA, nNodeB, nNodeC, nNodeD);
```

### VBA Syntax

```
Dim nNodeA As Long = 2
Dim nNodeB As Long = 3
Dim nNodeC As Long = 4
Dim nNodeD As Long = 5
' Add a plate between node 2, 3, 4 and 5.
Dim RetVal As VARIANT = OSGeometryUI.AddPlate(nNodeA, nNodeB, nNodeC, nNodeD)
```

### Remarks

The difference between **OSGeometryUI::CreatePlate** and **OSGeometryUI::AddPlate** AddPlate is the former has an option to label the node with any user-defined number.

### See also

**OSGeometryUI::CreatePlate**

[OSGeometryUI::DeletePlate](#)[OSGeometryUI::AddMultiplePlates](#)

## ◆ ClearPlateSelection()

```
void OSGeometryUI::ClearPlateSelection ( )
```

private

Unselect all the plate item(s).

### C++ Syntax

```
// Clear Plate Selection  
OSGeometryUI::ClearPlateSelection();
```

### VBA Syntax

```
' Clear Plate Selection  
OSGeometryUI.ClearPlateSelection()
```

### See also

[OSGeotryUI::SelectPlate](#)[OSGeometryUI::SelectMultiplePlates](#)[OSGeometryUI::GetSelectedPlates](#)

## ◆ CreateMultiplePlates()

```
void OSGeometryUI::CreateMultiplePlates ( const VARIANT FAR & nPlateIds,
                                           const VARIANT FAR & nPlateIncidences )
```

private

Create multiple plates with specified node number ID(s).

### Parameters

[in] **nPlateIds** Integer array of 1 dimension containing m plate IDs:[ID<sub>i</sub>]

[in] **nPlateIncidences** Integer array of 2 dimensions containing M\*4 elements i.e plate indices: [NodeA<sub>i</sub>, NodeB<sub>i</sub>, NodeC<sub>i</sub>, NodeD<sub>i</sub>].

### C++ Syntax

```
Create Multiple Plates
int nPlateIds[] = {91, 92, 93};
int nPlateIncidences[][4] = {{3, 5, 15, 13}, {15, 25, 27, 17}, {47, 27, 29, 40}};
OSGeometryUI::CreateMultiplePlates(nPlateIds, nPlateIncidences);
```

### C# Syntax

```
Create Multiple Plates
int[] nPlateIdArray = new int[3] {91, 92, 93};
int[,] nPlateIncidenceArray = new int[3, 4] {{3, 5, 15, 13}, {15, 25, 27, 17}, {47, 27, 29, 49}};
Object objectPlateIncidenceArray = nPlateIncidenceArray as Object;
Object objectPlateIdArray = nPlateIdArray as Object;
int RetValue = m_OStd.Geometry.CreateMultiplePlates(objectPlateIdArray,
objectPlateIncidenceArray);
```

### VBA Syntax

```
Create Multiple Plates
Dim nPlateIds(1) As Integer
nPlateIds(0) = 91
nPlateIds(1) = 92
Dim nPlateIncidences(1,3) As Integer
nPlateIncidences(0,0) = 3
nPlateIncidences(0,1) = 5
nPlateIncidences(0,2) = 15
nPlateIncidences(0,3) = 13
nPlateIncidences(1,0) = 15
nPlateIncidences(1,1) = 25
nPlateIncidences(1,2) = 27
nPlateIncidences(1,3) = 17
objOpenStaad.Geometry.SetCheckForIdenticalEntity(2, 1);
objOpenStaad.Geometry.CreateMultiplePlates(nPlateIds,nPlateIncidences)
```

### See also

[OSGeometryUI::SetCheckForIdenticalEntity](#)  
[OSGeometryUI::CreatePlate](#)  
[OSGeometryUI::DeletePlate](#)

**OSGeometryUI::AddMultiplePlates**◆ **CreatePlate()**

```
void OSGeometryUI::CreatePlate ( const VARIANT FAR & nPlateNo,
                                const VARIANT FAR & nNodeA,
                                const VARIANT FAR & nNodeB,
                                const VARIANT FAR & nNodeC,
                                const VARIANT FAR & nNodeD )
```

private

Creates a plate with specified existing nodes in current model.

### Parameters

[in] **nPlateNo** Plate number ID to be assigned to the newly created plate.

[in] **nNodeA** Number ID of end node (**node<sub>A</sub>**) for plate connectivity.

[in] **nNodeB** Number ID of end node (**node<sub>B</sub>**) for plate connectivity.

[in] **nNodeC** Number ID of end node (**node<sub>C</sub>**) for plate connectivity.

[in] **nNodeD** Number ID of end node (**node<sub>D</sub>**) for plate connectivity.

### C++ Syntax

```
long nNodeA = 2;
long nNodeB = 3;
long nNodeC = 4;
long nNodeD = 5;
// Create a plate with node 2, 3, 4 and 5, call it plate # 22.
OSGeometryUI::CreatePlate(22, nNodeA, nNodeB, nNodeC, nNodeD);
```

### VBA Syntax

```
Dim nNodeA As Long = 2
Dim nNodeB As Long = 3
Dim nNodeC As Long = 4
Dim nNodeD As Long = 5
' Create a plate with node 2, 3, 4 and 5, call it plate # 22.
OSGeometryUI.CreatePlate(22, nNodeA, nNodeB, nNodeC, nNodeD)
```

### Remarks

The difference between **OSGeometryUI::CreatePlate** and **OSGeometryUI::AddPlate** AddPlate is the former has an option to label the node with any user-defined number.

### Note

If geometry update flag is set, this function will update the element/plate incidence using the input node numbers.

### See also

**OSGeometryUI::AddPlate**

**OSGeometryUI::DeletePlate**



## OSGeometryUI::AddMultiplePlates

### ◆ DeletePlate()

void OSGeometryUI::DeletePlate ( const VARIANT FAR & nPlateNo )

private

Delete a specified plate.

#### Parameters

[ in ] **nPlateNo** Plate number ID.

#### C++ Syntax

```
long nPlateNo = 25;  
//Delete plate #25  
OSGeometryUI::DeletePlate(nPlateNo);
```

#### VBA Syntax

```
Dim nPlateNo As Long = 25  
' Delete plate #25.  
OSGeometryUI.DeletePlate(nPlateNo)
```

#### See also

[OSGeometryUI::CreatePlate](#)

[OSGeometryUI::AddPlate](#)

[OSGeometryUI::AddMultiplePlates](#)

### ◆ GetAreaOfPlates()

VARIANT OSGeometryUI::GetAreaOfPlates ( const VARIANT FAR & **varPlateNos**,  
 VARIANT FAR & **varPlatesArea** )

private

Returns an array of areas of specified plates.

### Parameters

[in] **varPlateNos** array of plate numbers (type - Long/Integer).

[out] **varPlatesArea** Array of area of specified plates (type - Double).

### C++ Syntax

```
// Get area of specified plates.
OSGeometryUI::GetAreaOfPlates(&varPlateNos, &varPlatesArea);
```

### VBA Syntax

```
' Get area of specified plates.
OSGeometryUI.GetAreaOfPlates(&varPlateNos, &varPlatesArea)
```

## ◆ GetLastPlateNo()

VARIANT OSGeometryUI::GetLastPlateNo ( )

private

Returns the plate number ID of the last plate in the model.

### Return values

<Val> The number of the highest plate number ID in the model

-1 General error.

### C++ Syntax

```
// Get last plate #.
VARIANT LastPlateNo = OSGeometryUI::GetLastPlateNo();
```

### VBA Syntax

```
' Get last plate #.
Dim LastPlateNo As VARIANT = OSGeometryUI.GetLastPlateNo()
```

## ◆ GetNoOfSelectedPlates()

**VARIANT OSGeometryUI::GetNoOfSelectedPlates ( )**

private

Returns the number of selected plate(s).

**Returns**

The number of selected plate(s).

**C++ Syntax**

```
// Counts for the total number of plate(s) selected.  
VARIANT NoOfSelectedPlates = OSGeometryUI::GetNoOfSelectedPlates();
```

**VBA Syntax**

```
' Counts for the total number of plate(s) selected.  
Dim NoOfSelectedPlates As VARIANT = OSGeometryUI.GetNoOfSelectedPlates()
```

**See also**

[OSGeometryUI::SelectPlate](#)

[OSGeometryUI::ClearPlateSelection](#)

[OSGeometryUI::SelectMultiplePlates](#)

[OSGeometryUI::GetSelectedPlates](#)

**◆ GetPlateCount()**

**VARIANT OSGeometryUI::GetPlateCount ( )**

private

Returns the total number of plates in the current model.

Note: Count of plates can vary depending upon the flag set for consideration of hidden entities (see [OSGeometryUI::SetFlagForHiddenEntities](#)).

**Return values**

<Val> The total number of plate(s).

**C++ Syntax**

```
// Count for the plates.  
VARIANT lPlateCount = OSGeometryUI::GetPlateCount();
```

**VBA Syntax**

```
' Count for the plates.  
Dim lPlateCount As VARIANT = OSGeometryUI.GetPlateCount()
```

**See also**[OSGeometryUI::GetPlateList](#)[OSGeometryUI::GetFlagForHiddenEntities](#)[OSGeometryUI::SetFlagForHiddenEntities](#)**◆ GetPlateIncidence()**

```
VARIANT OSGeometryUI::GetPlateIncidence ( const VARIANT FAR & nPlateNo,
                                           VARIANT FAR &      nNodeA,
                                           VARIANT FAR &      nNodeB,
                                           VARIANT FAR &      nNodeC,
                                           VARIANT FAR &      nNodeD )
```

private

Returns the number ID(s) of connecting node(s) for specified plate.

### Parameters

- [in] **nPlateNo** Plate number ID.
- [out] **nNodeA** Number ID of end node (**node<sub>A</sub>**).
- [out] **nNodeB** Number ID of end node (**node<sub>B</sub>**).
- [out] **nNodeC** Number ID of end node (**node<sub>C</sub>**).
- [out] **nNodeD** Number ID of end node (**node<sub>D</sub>**).

### Return values

- 0** OK.
- 1** General error.
- 4001** Cannot find Node < **nPlateNo** >.

### C++ Syntax

```
// Get nodes of plate # 5.
VARIANT RetVal = OSGeometryUI::GetPlateIncidence(5, &nNodeA, &nNodeB, &nNodeC, &nNodeD);
```

### VBA Syntax

```
' Get nodes of plate # 5.
Dim RetVal As VARIANT = OSGeometryUI.GetPlateIncidence(5, &nNodeA, &nNodeB, &nNodeC,
&nNodeD)
```

### See also

OSGeometryUI::GetPlateListAll

## ◆ GetPlateIncidence\_CIS2()

```
VARIANT OSGeometryUI::GetPlateIncidence_CIS2 ( const VARIANT FAR & nPlateNo,
                                                VARIANT FAR &      szName,
                                                VARIANT FAR &      nNodeA,
                                                VARIANT FAR &      nNodeB,
                                                VARIANT FAR &      nNodeC,
                                                VARIANT FAR &      nNodeD )
```

private

Returns the number ID(s) of connecting node(s) for specified plate.

### Parameters

- [ in] **nPlateNo** Plate number ID.
- [ out] **szName** (LPCTSTR) unique string ID.
- [ out] **nNodeA** Number ID of end node (**node<sub>A</sub>**).
- [ out] **nNodeB** Number ID of end node (**node<sub>B</sub>**).
- [ out] **nNodeC** Number ID of end node (**node<sub>C</sub>**).
- [ out] **nNodeD** Number ID of end node (**node<sub>D</sub>**).

### Return values

- 0** OK.
- 1** General error.
- 4001** Cannot find Node < **nPlateNo** >.

### C++ Syntax

```
// Get nodes of plate # 5.
VARIANT RetVal = OSGeometryUI::GetPlateIncidence_CIS2(5, &szName, &nNodeA, &nNodeB,
&nNodeC, &nNodeD);
```

### VBA Syntax

```
' Get nodes of plate # 5.
Dim RetVal As VARIANT = OSGeometryUI.GetPlateIncidence_CIS2(5, &szName, &nNodeA, &nNodeB,
&nNodeC, &nNodeD)
```

### See also

OSGeometryUI::GetPlateListAll

## ◆ GetPlateList()

```
void OSGeometryUI::GetPlateList ( VARIANT FAR & nPlateList )
```

private

Returns a list of all the plate ID(s) the current model.

Note: List of plates can be different depending upon the flag set for consideration of hidden entities (see [OSGeometryUI::SetFlagForHiddenEntities](#)).

### Parameters

[out] **nPlateList** VARIANT array of LONG type, for storing returned plate number ID(s).

### C++ Syntax

```
// Get plates list
OSGeometryUI::GetPlateList(&nPlateList);
```

### VBA Syntax

```
' Get plates list.
OSGeometryUI.GetPlateList(&nPlateList)
```

### See also

[OSGeometryUI::GetPlateCount](#)

[OSGeometryUI::GetFlagForHiddenEntities](#)

[OSGeometryUI::SetFlagForHiddenEntities](#)

## ◆ GetPlateNodeCount()

```
VARIANT OSGeometryUI::GetPlateNodeCount ( const VARIANT FAR & varnPlateNo )
```

private

Returns the number of nodes provided with for plate connectivity.

### Returns

The number of nodes.

### C++ Syntax

```
// Get Plates node Count of plate # 5.
VARIANT nPlateNo = OSGeometryUI::GetPlateNodeCount(5);
```

### VBA Syntax

```
' Get Plates node Count of plate # 5.
Dim nPlateNo As VARIANT = OSGeometryUI.GetPlateNodeCount(5)
```

## ◆ GetPlateUniqueID()

VARIANT OSGeometryUI::GetPlateUniqueID ( const VARIANT FAR & nPlateNo )

private

Returns the unique string ID (GUID) for specified plate.

### Parameters

[in] **nPlateNo** Plate number ID.

### Return values

<**VARIANT**> Unique string ID for specified plate.

The API would return an empty string if specified plate < **nPlateNo** > is *not* found

### C++ Syntax

```
// Get the unique ID of plate #3.  
VARIANT szName = OSGeometryUI::GetPlateUniqueID(3);
```

### VBA Syntax

```
' Get the unique ID of plate #3.  
Dim szName As VARIANT = OSGeometryUI.GetPlateUniqueID(3)
```

### See also

[OSGeometryUI::SetPlateUniqueID](#)

## ◆ GetSelectedPlates()



```
void OSGeometryUI::GetSelectedPlates ( VARIANT FAR & naPlateNos,
                                       VARIANT FAR & nlsSorted )
```

private

Returns a list of selected plate(s).

### Parameters

[out] **naPlateNos** Returned selected plate number ID(s) VARIANAT array.

[in] **nlsSorted** The order of the selection(s): in sorted order (= 1), in the order of selection (= 0).

### C++ Syntax

```
// Get selected plate list in the order of selection.
OSGeometryUI::GetSelectedPlates(&naPlateNos, 0);
```

### VBA Syntax

```
' Get selected plate list in the order of selection.
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 selpno As Long
    Dim selp() As Long

    selpno = objOpenStaad.Geometry.GetNoOfSelectedPlates
    ReDim selp(selpno - 1)
    objOpenStaad.Geometry.GetSelectedPlates selp, 0
    MsgBox"Macro Ending"
    Set objOpenStaad = Nothing
End Sub
```

### See also

[OSGeometryUI::SelectPlate](#)

[OSGeometryUI::ClearPlateSelection](#)

[OSGeometryUI::SelectMultiplePlates](#)

[OSGeometryUI::GetNoOfSelectedPlates](#)

## ◆ SelectMultiplePlates()

## VARIANT OSGeometryUI::SelectMultiplePlates ( const VARIANT FAR & naPlateNos )

private

Selects multiple plate(s) in current model.

### Parameters

[in] **naPlateNos** Plate number ID(s) VARIANT array (type - Long/Integer).

### Return values

0 Failed

1 Succeeded

### C++ Syntax

```
// Select multiple plates.
OSGeometryUI::SelectMultiplePlates(naPlateNos);
```

### VBA Syntax

```
Option Explicit
Sub Main
    Dim objOpenStaad As Object
    Dim stdFile As String
    'launch STAAD.Pro application and open "Verification Models\02 Trusses\Roof Truss
    Axial Forces.STD" file from the Samples folder
    Set objOpenStaad = GetObject("StaadPro.OpenSTAAD")
    objOpenStaad.GetSTAADFile stdFile, "TRUE"
    If stdFile="" Then
        MsgBox"Bad"
        Set objOpenStaad = Nothing
        Exit Sub
    End If
    Dim Objs(1) As Long
    Objs(0)=5
    Objs(1)=10
    Dim bRes As Boolean
    bRes = objOpenStaad.Geometry.SelectMultiplePlates( Objs)
    If bRes Then
        MsgBox"Success"
    Else
        MsgBox"Failed"
    End If
End Sub
```

### See also

[OSGeometryUI::SelectPlate](#)

[OSGeometryUI::ClearPlateSelection](#)

[OSGeometryUI::GetNoOfSelectedPlates](#)

[OSGeometryUI::GetSelectedPlates](#)

## ◆ SelectPlate()

VARIANT OSGeometryUI::SelectPlate ( const VARIANT FAR & nPlateNo )

private

Selects the specified plate in current model.

### Parameters

[ in ] **nPlateNo** Plate number ID.

### C++ Syntax

```
//Select plate # 3.  
OSGeometryUI::SelectPlate(3);
```

### VBA Syntax

```
' Select plate # 3.  
OSGeometryUI.SelectPlate(3)
```

### See also

[OSGeometryUI::SelectMultiplePlates](#)

[OSGeometryUI::ClearPlateSelection](#)

[OSGeometryUI::GetNoOfSelectedPlates](#)

[OSGeometryUI::GetSelectedPlates](#)

## ◆ SetPlateUniqueID()

```
void OSGeometryUI::SetPlateUniqueID ( const VARIANT FAR & nPlateNo,  
                                       const VARIANT FAR & szName )
```

private

Assigns an unique string ID (GUID) to specified plate.

### Parameters

[in] **nPlateNo** Plate number ID.

[in] **szName** (LPCTSTR) unique string ID.

### C++ Syntax

```
// Set "PLATESP" to plate #3.  
OSGeometryUI::SetPlateUniqueID(3, (LPCTSTR)"PLATESP");
```

### VBA Syntax

```
' Set "PLATESP" to plate #3.  
OSGeometryUI.SetPlateUniqueID(3, "PLATESP")
```

### See also

**OSGeometryUI::GetPlateUniqueID**

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