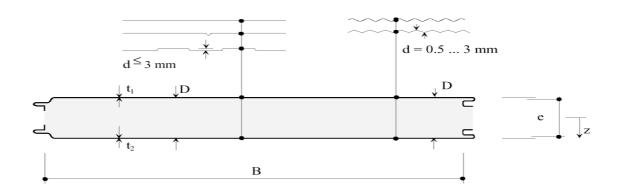
## Determination of Deflection and Stress in Sandwichpanels according to ECCS



## **Cross section**

Name of panel	Example 1			
Thickness over all of panel	D =	60	mm	
Nominal thickness of outer face	t <sub>1</sub> =	0.60	mm	
Nominal thickness of inner face	t <sub>2</sub> =	0.50	mm	
Thickness of zinc		0.06	mm	
		Index face 1	Index face 2	_
Net thickness of faces		0.540	0.440	mm
Cross-sectional area of faces	A <sub>Fi</sub> =	5.840	4.690	cm²/m
Moment of inertia of faces	$I_{Fi} =$	0.00	0.00	cm⁴/m
Upper edge distance	d <sub>i1</sub> =	0.630	2.450	mm
lower edge distance	d <sub>i2</sub> =	4.370	0.200	mm
E-Modul	E <sub>Fi</sub> =	2.10E+05	2.10E+05	N/mm²
Thermal expansion coefficient	$\alpha_{Ti} =$	1.20E-05	1.20E-05	1/°
Shear modulus	G <sub>C</sub> =	3.10	N/mm²	

## general loading Number of spans Single span width

Single span width	L =	4.000	m
Uniformly distributed load	q =	0.500	kN/m²
Temperature outer face	T <sub>1</sub> =	-20.0	C
Temperature inner face	$T_2 =$	20.0	C

2

spans

## Determination of Deflection and Stress in Sandwichpanels according to ECCS

