Technical data sheet **larcore® A2** 6 mm

Dimensional specifications

1.1. Total thickness (b) (mm)	6
1.2. Metal thickness (e_1) (mm)	0,70
1.3. Metal thickness (e_2) (mm)	0,50
1.4. Weight (kg/m^2)	4,01
1.5. Standard width (mm)	1000 – 1250 – 1500 – 2000
1.6. minimum / maximum length (mm)	2000 / 9000
1.7. Thickness tolerance (mm)	± 0,2
1.8. Width tolerance (mm)	- 0 / + 2
1.9. Length tolerance (mm)	- 0 / + 6
1.10. Core	aluminium honeycomb
1.11. Cell size (C) (in)(mm)	1/4" – 6,35 mm

Mechanical specifications

2.1. Moment of inertia (J) (cm^4/m) DIN 53293	0,99
2.2. Rigidity (EJ) (KNcm^2/m) DIN 53293	6.898
2.3. Section modulus (W) (cm^3/m) DIN 53293	2,97
2.4. Audible reduction (Rw) (dB) EN ISO 717-1	19
2.5. Acoustic insulation (R_A) (dBA) EN ISO 717-1	19,6
2.6. Thermal resistance (R) (m^{2}K/W) UNE 92-202-89:1989	0,012
2.7. Thermal conductivity (λ) (W/mK) UNE 92-202-89:1989	0,567
2.8. Metal thermal expansion (mm/m)	2,3 Δ 100ºC
2.9. Temperature stability (ºC) (*)	-40 / + 80

(*) All processing jobs must be done at temperatures above 10 ° C

Aluminium sheets specifications

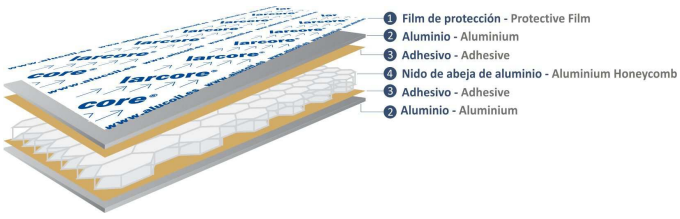
3.1. Aluminium alloy UNE EN 573-3	5005
3.2. Ultimate tensile strength (N/mm^2) UNE EN 485-2	130 < Rm < 165
3.3. Elasticity limit (N/mm^2) UNE EN 485-2	90 < $Rp_{0,2}$ < 155
3.4. Yield strength (A) (%) UNE EN 485-2	> 7
3.5. Modulus of elasticity (E) (N/mm^2)	70.000

Aluminium core specifications

4.1. Aluminium alloy UNE EN 573-3	3003
4.2. Compressive strength (MPa) DIN 53291	2,20
4.3. Core density (kg/m^3)	56
4.4. Anticorrosive pretreatment	Yes

Fire classification

5.1. Building market: EN 13501-1	A2-s1,d0
5.2. Railway market: UNE 23721-27	M1
NF P 92-501 – NF F 16-101	M1 – F1
5.3. Ship-building: International Maritime Organization (IMO)	IMO FTPC Part 5 surface flammability IMO FTPC Part 2 smoke density and toxicity IMO – RESOLUTION A.653 (16) **MED – US Coast Guard**



Alucoil®
Grupo Alibérico

Technical data sheet **larcore® A2** 6 mm

Dimensional specifications

1.1. Total thickness (b) (mm)	6
1.2. Metal thickness (e_1) (mm)	0,70
1.3. Metal thickness (e_2) (mm)	0,50
1.4. Weight (kg/m^2)	4,00
1.5. Standard width (mm)	1000 – 1250 – 1500 – 2000
1.6. minimum / maximum length (mm)	2000 / 9000
1.7. Thickness tolerance (mm)	± 0,2
1.8. Width tolerance (mm)	- 0 / + 2
1.9. Length tolerance (mm)	- 0 / + 6
1.10. Core	aluminium honeycomb
1.11. Cell size (C) (in)(mm)	3/8" – 9,52 mm

Mechanical specifications

2.1. Moment of inertia (J) (cm^4/m) DIN 53293	0,99
2.2. Rigidity (EJ) (KNcm^2/m) DIN 53293	6.898
2.3. Section modulus (W) (cm^3/m) DIN 53293	2,97
2.4. Audible reduction (Rw) (dB) EN ISO 717-1	19
2.5. Acoustic insulation (R_A) (dBA) EN ISO 717-1	19,6
2.6. Thermal resistance (R) (m^{2}K/W) UNE 92-202-89:1989	0,012
2.7. Thermal conductivity (λ) (W/mK) UNE 92-202-89:1989	0,567
2.8. Metal thermal expansion (mm/m)	2,3 Δ 100ºC
2.9. Temperature stability (ºC) (*)	-40 / + 80

(*) All processing jobs must be done at temperatures above 10 ° C

Aluminium sheets specifications

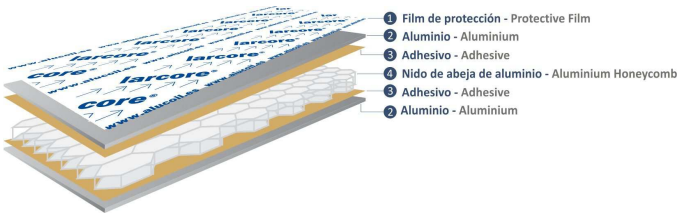
3.1. Aluminium alloy UNE EN 573-3	5005
3.2. Ultimate tensile strength (N/mm^2) UNE EN 485-2	130 < Rm < 165
3.3. Elasticity limit (N/mm^2) UNE EN 485-2	90 < $Rp_{0,2}$ < 155
3.4. Yield strength (A) (%) UNE EN 485-2	> 7
3.5. Modulus of elasticity (E) (N/mm^2)	70.000

Aluminium core specifications

4.1. Aluminium alloy UNE EN 573-3	3003
4.2. Compressive strength (MPa) DIN 53291	2,00
4.3. Core density (kg/m^3)	54
4.4. Anticorrosive pretreatment	Yes

Fire classification

5.1. Building market: EN 13501-1	A2-s1,d0
5.2. Railway market: UNE 23721-27	M1
NF P 92-501 – NF F 16-101	M1 – F1
5.3. Ship-building: International Maritime Organization (IMO)	IMO FTPC Part 5 surface flammability IMO FTPC Part 2 smoke density and toxicity IMO – RESOLUTION A.653 (16) **MED – US Coast Guard**



Alucoil®
Grupo Alibérico

Technical data sheet **larcore® A2** 6 mm

Dimensional specifications

1.1. Total thickness (b) (mm)	6
1.2. Metal thickness (e_1) (mm)	1,00
1.3. Metal thickness (e_2) (mm)	0,50
1.4. Weight (kg/m^2)	4,80
1.5. Standard width (mm)	1000 – 1250 – 1500 – 2000
1.6. minimum / maximum length (mm)	2000 / 9000
1.7. Thickness tolerance (mm)	± 0,2
1.8. Width tolerance (mm)	- 0 / + 2
1.9. Length tolerance (mm)	- 0 / + 6
1.10. Core	aluminium honeycomb
1.11. Cell size (C) (in)(mm)	3/8'' – 9,52 mm

Mechanical specifications

2.1. Moment of inertia (J) (cm^4/m) DIN 53293	1,06
2.2. Rigidity (EJ) (KNcm^2/m) DIN 53293	7.411
2.3. Section modulus (W) (cm^3/m) DIN 53293	2,93
2.4. Audible reduction (Rw) (dB) EN ISO 717-1	19,00
2.5. Acoustic insulation (R_A) (dBA) EN ISO 717-1	19,60
2.6. Thermal resistance (R) (m^{2}K/W) UNE 92-202-89:1989	0,012
2.7. Thermal conductivity (λ) (W/mK) UNE 92-202-89:1989	0,567
2.8. Metal thermal expansion (mm/m)	2,3 Δ 100ºC
2.9. Temperature stability (ºC)(*)	-40 / + 80

(*) All processing jobs must be done at temperatures above 10 ° C

Aluminium sheets specifications

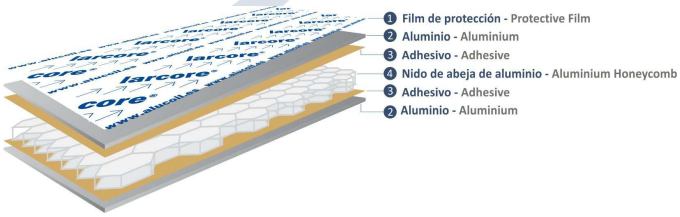
3.1. Aluminium alloy UNE EN 573-3	5005
3.2. Ultimate tensile strength (N/mm^2) UNE EN 485-2	130 < Rm < 165
3.3. Elasticity limit (N/mm^2) UNE EN 485-2	90 < $Rp_{0,2}$ < 155
3.4. Yield strength (A) (%) UNE EN 485-2	> 7
3.5. Modulus of elasticity (E) (N/mm^2)	70.000

Aluminium core specifications

4.1. Aluminium alloy UNE EN 573-3	3003
4.2. Compressive strength (MPa) DIN 53291	2,00
4.3. Core density (kg/m^3)	54
4.4. Anticorrosive pretreatment	Yes

Fire classification

5.1. Building market: EN 13501-1	A2-s1,d0
5.2. Railway market: UNE 23721-27	M1
NF P 92-501 – NF F 16-101	M1 – F1
5.3. Ship-building: International Maritime Organization (IMO)	IMO FTPC Part 5 surface flammability IMO FTPC Part 2 smoke density and toxicity IMO – RESOLUTION A.653 (16) **MED – US Coast Guard**



Alucoil®
Grupo Alibérico

Technical data sheet **larcore® A2** 8 mm

Dimensional specifications

1.1. Total thickness (b) (mm)	8
1.2. Metal thickness (e_1) (mm)	0,70
1.3. Metal thickness (e_2) (mm)	0,70
1.4. Weight (kg/m^2)	4,66
1.5. Standard width (mm)	1000 – 1250 – 1500 – 2000
1.6. minimum / maximum length (mm)	2000 / 9000
1.7. Thickness tolerance (mm)	± 0,2
1.8. Width tolerance (mm)	- 0 / + 2
1.9. Length tolerance (mm)	- 0 / + 6
1.10. Core	aluminium honeycomb
1.11. Cell size (C) (in)(mm)	1/4" – 6,35 mm

Mechanical specifications

2.1. Moment of inertia (J) (cm^4/m) DIN 53293	2,11
2.2. Rigidity (EJ) (KNcm^2/m) DIN 53293	14.789
2.3. Section modulus (W) (cm^3/m) DIN 53293	5,28
2.4. Audible reduction (Rw) (dB) EN ISO 717-1	19,50
2.5. Acoustic insulation (R_A) (dBA) EN ISO 717-1	19,95
2.6. Thermal resistance (R) (m^{2}K/W) UNE 92-202-89:1989	0,013
2.7. Thermal conductivity (λ) (W/mK) UNE 92-202-89:1989	0,625
2.8. Metal thermal expansion (mm/m)	2,3 Δ 100ºC
2.9. Temperature stability (ºC) (*)	-40 / + 80

(*) All processing jobs must be done at temperatures above 10 ° C

Aluminium sheets specifications

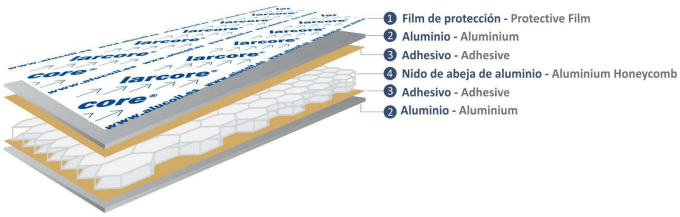
3.1. Aluminium alloy UNE EN 573-3	5005
3.2. Ultimate tensile strength (N/mm^2) UNE EN 485-2	130 < Rm < 165
3.3. Elasticity limit (N/mm^2) UNE EN 485-2	90 < $Rp_{0,2}$ < 155
3.4. Yield strength (A) (%) UNE EN 485-2	> 7
3.5. Modulus of elasticity (E) (N/mm^2)	70.000

Aluminium core specifications

4.1. Aluminium alloy UNE EN 573-3	3003
4.2. Compressive strength (MPa) DIN 53291	2,20
4.3. Core density (kg/m^3)	56
4.4. Anticorrosive pretreatment	Yes

Fire classification

5.1. Building market: EN 13501-1	A2-s1,d0
5.2. Railway market: UNE 23721-27	M1
NF P 92-501 – NF F 16-101	M1 – F1
5.3. Ship-building: International Maritime Organization (IMO)	IMO FTPC Part 5 surface flammability IMO FTPC Part 2 smoke density and toxicity IMO – RESOLUTION A.653 (16) **MED – US Coast Guard**



Alucoil®
Grupo Alibérico

Technical data sheet **larcore® A2** 10 mm

Dimensional specifications

1.1. Total thickness (b) (mm)	10
1.2. Metal thickness (e_1) (mm)	0,80
1.3. Metal thickness (e_2) (mm)	0,70
1.4. Weight (kg/m^2)	5,04
1.5. Standard width (mm)	1000 – 1250 – 1500 – 2000
1.6. minimum / maximum length (mm)	2000 / 9000
1.7. Thickness tolerance (mm)	± 0,2
1.8. Width tolerance (mm)	- 0 / + 2
1.9. Length tolerance (mm)	- 0 / + 6
1.10. Core	aluminium honeycomb
1.11. Cell size (C) (in)(mm)	1/4" – 6,35 mm

Mechanical specifications

2.1. Moment of inertia (J) (cm^4/m) DIN 53293	3,61
2.2. Rigidity (EJ) (KNcm^2/m) DIN 53293	25.256
2.3. Section modulus (W) (cm^3/m) DIN 53293	6,89
2.4. Audible reduction (Rw) (dB) EN ISO 717-1	20,00
2.5. Acoustic insulation (R_A) (dBA) EN ISO 717-1	20,30
2.6. Thermal resistance (R) (m^{2}K/W) UNE 92-202-89:1989	0,016
2.7. Thermal conductivity (λ) (W/mK) UNE 92-202-89:1989	0,632
2.8. Metal thermal expansion (mm/m)	2,3 Δ 100ºC
2.9. Temperature stability (ºC) (*)	-40 / + 80

(*) All processing jobs must be done at temperatures above 10 ° C

Aluminium sheets specifications

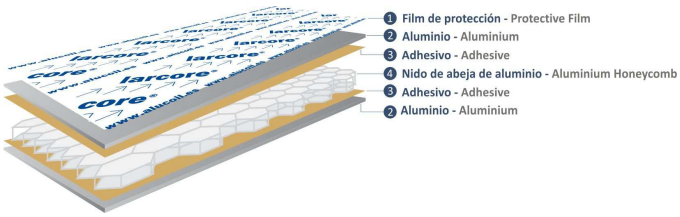
3.1. Aluminium alloy UNE EN 573-3	5005
3.2. Ultimate tensile strength (N/mm^2) UNE EN 485-2	130 < Rm < 165
3.3. Elasticity limit (N/mm^2) UNE EN 485-2	90 < $Rp_{0,2}$ < 155
3.4. Yield strength (A) (%) UNE EN 485-2	> 7
3.5. Modulus of elasticity (E) (N/mm^2)	70.000

Aluminium core specifications

4.1. Aluminium alloy UNE EN 573-3	3003
4.2. Compressive strength (MPa) DIN 53291	2,20
4.3. Core density (kg/m^3)	56
4.4. Anticorrosive pretreatment	Yes

Fire classification

5.1. Building market: EN 13501-1	A2-s1,d0
5.2. Railway market: UNE 23721-27	M1
NF P 92-501 – NF F 16-101	M1 – F1
5.3. Ship-building: International Maritime Organization (IMO)	IMO FTPC Part 5 surface flammability IMO FTPC Part 2 smoke density and toxicity IMO – RESOLUTION A.653 (16) **MED – US Coast Guard**



Alucoil®
Grupo Alibérico

Technical data sheet **larcore® A2** 10 mm

Dimensional specifications

1.1. Total thickness (b) (mm)	10
1.2. Metal thickness (e_1) (mm)	1,00
1.3. Metal thickness (e_2) (mm)	0,50
1.4. Weight (kg/m^2)	5,02
1.5. Standard width (mm)	1000 – 1250 – 1500 – 2000
1.6. minimum / maximum length (mm)	2000 / 9000
1.7. Thickness tolerance (mm)	± 0,2
1.8. Width tolerance (mm)	- 0 / + 2
1.9. Length tolerance (mm)	- 0 / + 6
1.10. Core	aluminium honeycomb
1.11. Cell size (C) (in)(mm)	3/8" – 9,52 mm

Mechanical specifications

2.1. Moment of inertia (J) (cm^4/m) DIN 53293	3,32
2.2. Rigidity (EJ) (KNcm^2/m) DIN 53293	23.248
2.3. Section modulus (W) (cm^3/m) DIN 53293	5,36
2.4. Audible reduction (Rw) (dB) EN ISO 717-1	20,00
2.5. Acoustic insulation (R_A) (dBA) EN ISO 717-1	20,30
2.6. Thermal resistance (R) (m^{2}K/W) UNE 92-202-89:1989	0,016
2.7. Thermal conductivity (λ) (W/mK) UNE 92-202-89:1989	0,632
2.8. Metal thermal expansion (mm/m)	2,3 Δ 100ºC
2.9. Temperature stability (ºC) (*)	-40 / + 80

(*) All processing jobs must be done at temperatures above 10 ° C

Aluminium sheets specifications

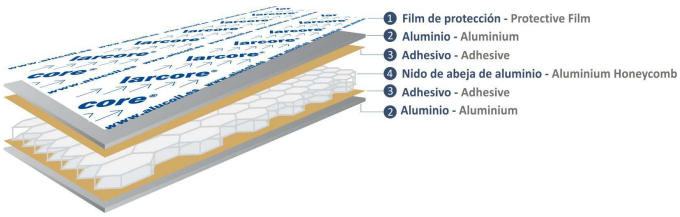
3.1. Aluminium alloy UNE EN 573-3	5005
3.2. Ultimate tensile strength (N/mm^2) UNE EN 485-2	130 < Rm < 165
3.3. Elasticity limit (N/mm^2) UNE EN 485-2	90 < $Rp_{0,2}$ < 155
3.4. Yield strength (A) (%) UNE EN 485-2	> 7
3.5. Modulus of elasticity (E) (N/mm^2)	70.000

Aluminium core specifications

4.1. Aluminium alloy UNE EN 573-3	3003
4.2. Compressive strength (MPa) DIN 53291	2,00
4.3. Core density (kg/m^3)	54
4.4. Anticorrosive pretreatment	Yes

Fire classification

5.1. Building market: EN 13501-1	A2-s1,d0
5.2. Railway market: UNE 23721-27	M1
NF P 92-501 – NF F 16-101	M1 – F1
5.3. Ship-building: International Maritime Organization (IMO)	IMO FTPC Part 5 surface flammability IMO FTPC Part 2 smoke density and toxicity IMO – RESOLUTION A.653 (16) **MED – US Coast Guard**



Alucoil®
Grupo Alibérico

Technical data sheet **larcore® A2** 14 mm

Dimensional specifications

1.1. Total thickness (b) (mm)	14
1.2. Metal thickness (e_1) (mm)	0,70
1.3. Metal thickness (e_2) (mm)	0,70
1.4. Weight (kg/m^2)	4,99
1.5. Standard width (mm)	1000 – 1250 – 1500 – 2000
1.6. minimum / maximum length (mm)	2000 / 9000
1.7. Thickness tolerance (mm)	± 0,2
1.8. Width tolerance (mm)	- 0 / + 2
1.9. Length tolerance (mm)	- 0 / + 6
1.10. Core	aluminium honeycomb
1.11. Cell size (C) (in)(mm)	1/4'' – 6,35 mm

Mechanical specifications

2.1. Moment of inertia (J) (cm^4/m) DIN 53293	7,09
2.2. Rigidity (EJ) (KNcm^2/m) DIN 53293	49.652
2.3. Section modulus (W) (cm^3/m) DIN 53293	10,13
2.4. Audible reduction (Rw) (dB) EN ISO 717-1	21,00
2.5. Acoustic insulation (R_A) (dBA) EN ISO 717-1	21,00
2.6. Thermal resistance (R) (m^{2}K/W) UNE 92-202-89:1989	0,020
2.7. Thermal conductivity (λ) (W/mK) UNE 92-202-89:1989	0,697
2.8. Metal thermal expansion (mm/m)	2,3 Δ 100ºC
2.9. Temperature stability (ºC) (*)	-40 / + 80

(*) All processing jobs must be done at temperatures above 10 ° C

Aluminium sheets specifications

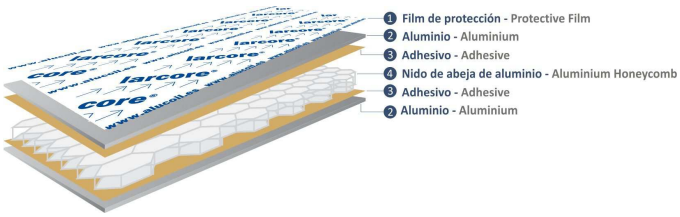
3.1. Aluminium alloy UNE EN 573-3	5005
3.2. Ultimate tensile strength (N/mm^2) UNE EN 485-2	130 < Rm < 165
3.3. Elasticity limit (N/mm^2) UNE EN 485-2	90 < $Rp_{0,2}$ < 155
3.4. Yield strength (A) (%) UNE EN 485-2	> 7
3.5. Modulus of elasticity (E) (N/mm^2)	70.000

Aluminium core specifications

4.1. Aluminium alloy UNE EN 573-3	3003
4.2. Compressive strength (MPa) DIN 53291	2,20
4.3. Core density (kg/m^3)	56
4.4. Anticorrosive pretreatment	Yes

Fire classification

5.1. Building market: EN 13501-1	A2-s1,d0
5.2. Railway market: UNE 23721-27	M1
NF P 92-501 – NF F 16-101	M1 – F1
5.3. Ship-building: International Maritime Organization (IMO)	IMO FTPC Part 5 surface flammability IMO FTPC Part 2 smoke density and toxicity IMO – RESOLUTION A.653 (16) **MED – US Coast Guard**



Alucoil®
Grupo Alibérico

Technical data sheet **larcore® A2** 14 mm

Dimensional specifications

1.1. Total thickness (b) (mm)	14
1.2. Metal thickness (e_1) (mm)	1
1.3. Metal thickness (e_2) (mm)	1
1.4. Weight (kg/m^2)	6,59
1.5. Standard width (mm)	1000 – 1250 – 1500 – 2000
1.6. minimum / maximum length (mm)	2000 / 9000
1.7. Thickness tolerance (mm)	± 0,2
1.8. Width tolerance (mm)	- 0 / + 2
1.9. Length tolerance (mm)	- 0 / + 6
1.10. Core	aluminium honeycomb
1.11. Cell size (C) (in)(mm)	1/4'' – 6,35 mm

Mechanical specifications

2.1. Moment of inertia (J) (cm^4/m) DIN 53293	8,47
2.2. Rigidity (EJ) (KNcm^2/m) DIN 53293	59.267
2.3. Section modulus (W) (cm^3/m) DIN 53293	12,09
2.4. Audible reduction (Rw) (dB) EN ISO 717-1	21,00
2.5. Acoustic insulation (R_A) (dBA) EN ISO 717-1	21,00
2.6. Thermal resistance (R) (m^{2}K/W) UNE 92-202-89:1989	0,020
2.7. Thermal conductivity (λ) (W/mK) UNE 92-202-89:1989	0,697
2.8. Metal thermal expansion (mm/m)	2,3 Δ 100ºC
2.9. Temperature stability (ºC) (*)	-40 / + 80

(*) All processing jobs must be done at temperatures above 10 ° C

Aluminium sheets specifications

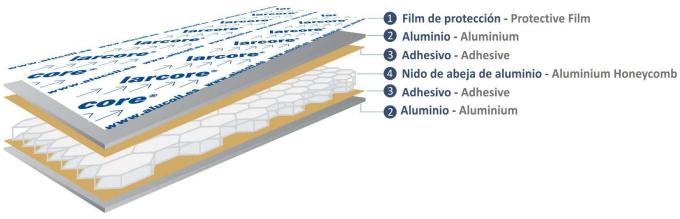
3.1. Aluminium alloy UNE EN 573-3	5005
3.2. Ultimate tensile strength (N/mm^2) UNE EN 485-2	130 < Rm < 165
3.3. Elasticity limit (N/mm^2) UNE EN 485-2	90 < $Rp_{0,2}$ < 155
3.4. Yield strength (A) (%) UNE EN 485-2	> 7
3.5. Modulus of elasticity (E) (N/mm^2)	70.000

Aluminium core specifications

4.1. Aluminium alloy UNE EN 573-3	3003
4.2. Compressive strength (MPa) DIN 53291	2,20
4.3. Core density (kg/m^3)	56
4.4. Anticorrosive pretreatment	Yes

Fire classification

5.1. Building market: EN 13501-1	A2-s1,d0
5.2. Railway market: UNE 23721-27	M1
NF P 92-501 – NF F 16-101	M1 – F1
5.3. Ship-building: International Maritime Organization (IMO)	IMO FTPC Part 5 surface flammability IMO FTPC Part 2 smoke density and toxicity IMO – RESOLUTION A.653 (16) **MED – US Coast Guard**



Alucoil®
Grupo Alibérico

Technical data sheet **larcore® A2** 15 mm

Dimensional specifications

1.1. Total thickness (b) (mm)	15
1.2. Metal thickness (e_1) (mm)	1,00
1.3. Metal thickness (e_2) (mm)	1,00
1.4. Weight (kg/m^2)	6,65
1.5. Standard width (mm)	1000 – 1250 – 1500 – 2000
1.6. minimum / maximum length (mm)	2000 / 9000
1.7. Thickness tolerance (mm)	± 0,2
1.8. Width tolerance (mm)	- 0 / + 2
1.9. Length tolerance (mm)	- 0 / + 6
1.10. Core	aluminium honeycomb
1.11. Cell size (C) (in)(mm)	1/4'' – 6,35 mm

Mechanical specifications

2.1. Moment of inertia (J) (cm^4/m) DIN 53293	10,77
2.2. Rigidity (EJ) (KNcm^2/m) DIN 53293	75.399
2.3. Section modulus (W) (cm^3/m) DIN 53293	14,36
2.4. Audible reduction (Rw) (dB) EN ISO 717-1	21,25
2.5. Acoustic insulation (R_A) (dBA) EN ISO 717-1	21,18
2.6. Thermal resistance (R) (m^{2}K/W) UNE 92-202-89:1989	0,020
2.7. Thermal conductivity (λ) (W/mK) UNE 92-202-89:1989	0,756
2.8. Metal thermal expansion (mm/m)	2,3 Δ 100ºC
2.9. Temperature stability (ºC)(*)	-40 / + 80

(*) All processing jobs must be done at temperatures above 10 ° C

Aluminium sheets specifications

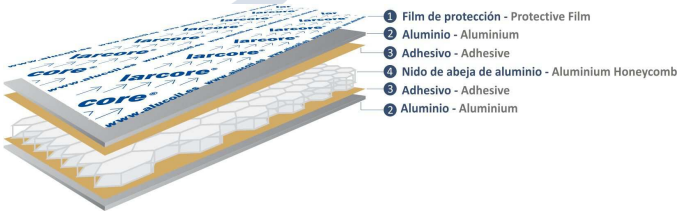
3.1. Aluminium alloy UNE EN 573-3	5005
3.2. Ultimate tensile strength (N/mm^2) UNE EN 485-2	130 < Rm < 165
3.3. Elasticity limit (N/mm^2) UNE EN 485-2	90 < $Rp_{0,2}$ < 155
3.4. Yield strength (A) (%) UNE EN 485-2	> 7
3.5. Modulus of elasticity (E) (N/mm^2)	70.000

Aluminium core specifications

4.1. Aluminium alloy UNE EN 573-3	3003
4.2. Compressive strength (MPa) DIN 53291	2,20
4.3. Core density (kg/m^3)	56
4.4. Anticorrosive pretreatment	Yes

Fire classification

5.1. Building market: EN 13501-1	A2-s1,d0
5.2. Railway market: UNE 23721-27	M1
NF P 92-501 – NF F 16-101	M1 – F1
5.3. Ship-building: International Maritime Organization (IMO)	IMO FTPC Part 5 Surface Flammability IMO FTPC Part 2 Smoke Density and Toxicity IMO – RESOLUTION A.653 (16) **MED – US Coast Guard**



Alucoil®
Grupo Alibérico

Technical data sheet **larcore® A2** 15 mm

Dimensional specifications

1.1. Total thickness (b) (mm)	15
1.2. Metal thickness (e_1) (mm)	1,00
1.3. Metal thickness (e_2) (mm)	1,00
1.4. Weight (kg/m^2)	6,62
1.5. Standard width (mm)	1000 – 1250 – 1500 – 2000
1.6. minimum / maximum length (mm)	2000 / 9000
1.7. Thickness tolerance (mm)	± 0,2
1.8. Width tolerance (mm)	- 0 / + 2
1.9. Length tolerance (mm)	- 0 / + 6
1.10. Core	aluminium honeycomb
1.11. Cell size (C) (in)(mm)	3/8'' – 9,52 mm

Mechanical specifications

2.1. Moment of inertia (J) (cm^4/m) DIN 53293	10,77
2.2. Rigidity (EJ) (KNcm^2/m) DIN 53293	75.399
2.3. Section modulus (W) (cm^3/m) DIN 53293	14,36
2.4. Audible reduction (Rw) (dB) EN ISO 717-1	21,25
2.5. Acoustic insulation (R_A) (dBA) EN ISO 717-1	21,18
2.6. Thermal resistance (R) (m^{2}K/W) UNE 92-202-89:1989	0,020
2.7. Thermal conductivity (λ) (W/mK) UNE 92-202-89:1989	0,756
2.8. Metal thermal expansion (mm/m)	2,3 Δ 100ºC
2.9. Temperature stability (ºC)(*)	-40 / + 80

(*) All processing jobs must be done at temperatures above 10 ° C

Aluminium sheets specifications

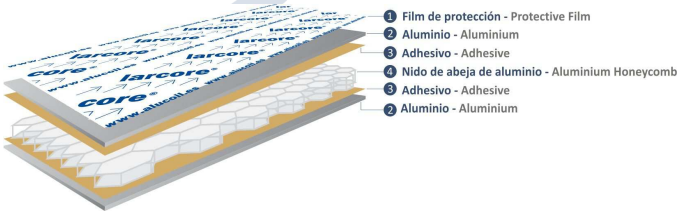
3.1. Aluminium alloy UNE EN 573-3	5005
3.2. Ultimate tensile strength (N/mm^2) UNE EN 485-2	130 < Rm < 165
3.3. Elasticity limit (N/mm^2) UNE EN 485-2	90 < $Rp_{0,2}$ < 155
3.4. Yield strength (A) (%) UNE EN 485-2	> 7
3.5. Modulus of elasticity (E) (N/mm^2)	70.000

Aluminium core specifications

4.1. Aluminium alloy UNE EN 573-3	3003
4.2. Compressive strength (MPa) DIN 53291	2,00
4.3. Core density (kg/m^3)	54
4.4. Anticorrosive pretreatment	Yes

Fire classification

5.1. Building market: EN 13501-1	A2-s1,d0
5.2. Railway market: UNE 23721-27	M1
NF P 92-501 – NF F 16-101	M1 – F1
5.3. Ship-building: International Maritime Organization (IMO)	IMO FTPC Part 5 Surface Flammability IMO FTPC Part 2 Smoke Density and Toxicity IMO – RESOLUTION A.653 (16) **MED – US Coast Guard**



Alucoil®
Grupo Alibérico

Technical data sheet **larcore® A2** 20 mm

Dimensional specifications

1.1. Total thickness (b) (mm)	20
1.2. Metal thickness (e_1) (mm)	1,00
1.3. Metal thickness (e_2) (mm)	1,00
1.4. Weight (kg/m^2)	6,89
1.5. Standard width (mm)	1000 – 1250 – 1500 – 2000
1.6. minimum / maximum length (mm)	2000 / 9000
1.7. Thickness tolerance (mm)	± 0,2
1.8. Width tolerance (mm)	- 0 / + 2
1.9. Length tolerance (mm)	- 0 / + 6
1.10. Core	aluminium honeycomb
1.11. Cell size (C) (in)(mm)	3/8" – 9,52 mm

Mechanical specifications

2.1. Moment of inertia (J) (cm^4/m) DIN 53293	19,91
2.2. Rigidity (EJ) (KNcm^2/m) DIN 53293	139.342
2.3. Section modulus (W) (cm^3/m) DIN 53293	19,91
2.4. Audible reduction (Rw) (dB) EN ISO 717-1	22,50
2.5. Acoustic insulation (R_A) (dBA) EN ISO 717-1	22,16
2.6. Thermal resistance (R) (m^{2}K/W) UNE 92-202-89:1989	0,021
2.7. Thermal conductivity (λ) (W/mK) UNE 92-202-89:1989	0,971
2.8. Metal thermal expansion (mm/m)	2,3 Δ 100ºC
2.9. Temperature stability (ºC) (*)	-40 / + 80

(*) All processing jobs must be done at temperatures above 10 ° C

Aluminium sheets specifications

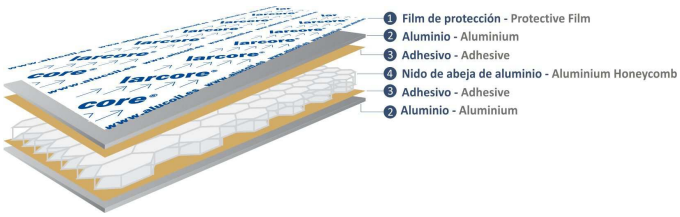
3.1. Aluminium alloy UNE EN 573-3	5005
3.2. Ultimate tensile strength (N/mm^2) UNE EN 485-2	130 < Rm < 165
3.3. Elasticity limit (N/mm^2) UNE EN 485-2	90 < $Rp_{0,2}$ < 155
3.4. Yield strength (A) (%) UNE EN 485-2	> 7
3.5. Modulus of elasticity (E) (N/mm^2)	70.000

Aluminium core specifications

4.1. Aluminium alloy UNE EN 573-3	3003
4.2. Compressive strength (MPa) DIN 53291	2,00
4.3. Core density (kg/m^3)	54
4.4. Anticorrosive pretreatment	Yes

Fire classification

5.1. Building market: EN 13501-1	A2-s1,d0
5.2. Railway market: UNE 23721-27	M1
NF P 92-501 – NF F 16-101	M1 – F1
5.3. Ship-building: International Maritime Organization (IMO)	IMO FTPC Part 5 surface flammability IMO FTPC Part 2 smoke density and toxicity IMO – RESOLUTION A.653 (16) **MED – US Coast Guard**



Alucoil®
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Technical data sheet **larcore® A2** 25 mm

Dimensional specifications

1.1. Total thickness (b) (mm)	25
1.2. Metal thickness (e_1) (mm)	1,00
1.3. Metal thickness (e_2) (mm)	1,00
1.4. Weight (kg/m^2)	7,16
1.5. Standard width (mm)	1000 – 1250 – 1500 – 2000
1.6. minimum / maximum length (mm)	2000 / 9000
1.7. Thickness tolerance (mm)	± 0,2
1.8. Width tolerance (mm)	- 0 / + 2
1.9. Length tolerance (mm)	- 0 / + 6
1.10. Core	aluminium honeycomb
1.11. Cell size (C) (in)(mm)	3/8" – 9,52 mm

Mechanical specifications

2.1. Moment of inertia (J) (cm^4/m) DIN 53293	31,83
2.2. Rigidity (EJ) (KNcm^2/m) DIN 53293	222.797
2.3. Section modulus (W) (cm^3/m) DIN 53293	25,46
2.4. Audible reduction (Rw) (dB) EN ISO 717-1	23,75
2.5. Acoustic insulation (R_A) (dBA) EN ISO 717-1	23,21
2.6. Thermal resistance (R) (m^{2}K/W) UNE 92-202-89:1989	0,025
2.7. Thermal conductivity (λ) (W/mK) UNE 92-202-89:1989	1,056
2.8. Metal thermal expansion (mm/m)	2,3 Δ 100ºC
2.9. Temperature stability (ºC) (*)	-40 / + 80

(*) All processing jobs must be done at temperatures above 10 ° C

Aluminium sheets specifications

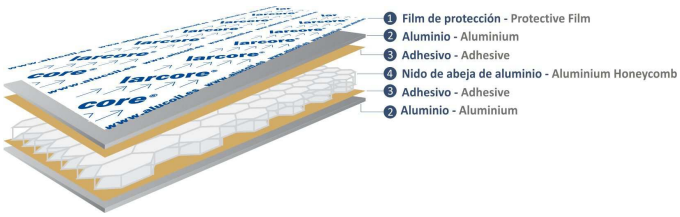
3.1. Aluminium alloy UNE EN 573-3	5005
3.2. Ultimate tensile strength (N/mm^2) UNE EN 485-2	130 < Rm < 165
3.3. Elasticity limit (N/mm^2) UNE EN 485-2	90 < $Rp_{0,2}$ < 155
3.4. Yield strength (A) (%) UNE EN 485-2	> 7
3.5. Modulus of elasticity (E) (N/mm^2)	70.000

Aluminium core specifications

4.1. Aluminium alloy UNE EN 573-3	3003
4.2. Compressive strength (MPa) DIN 53291	2,00
4.3. Core density (kg/m^3)	54
4.4. Anticorrosive pretreatment	Yes

Fire classification

5.1. Building market: EN 13501-1	A2-s1,d0
5.2. Railway market: UNE 23721-27	M1
NF P 92-501 – NF F 16-101	M1 – F1
5.3. Ship-building: International Maritime Organization (IMO)	IMO FTPC Part 5 surface flammability IMO FTPC Part 2 smoke density and toxicity IMO – RESOLUTION A.653 (16) **MED – US Coast Guard**



Alucoil®
Grupo Alibérico

Technical data sheet **larcore® A2** 30 mm

Dimensional specifications

1.1. Total thickness (b) (mm)	30
1.2. Metal thickness (e_1) (mm)	1,00
1.3. Metal thickness (e_2) (mm)	1,00
1.4. Weight (kg/m^2)	7,43
1.5. Standard width (mm)	1000 – 1250 – 1500 – 2000
1.6. minimum / maximum length (mm)	2000 / 9000
1.7. Thickness tolerance (mm)	± 0,2
1.8. Width tolerance (mm)	- 0 / + 2
1.9. Length tolerance (mm)	- 0 / + 6
1.10. Core	aluminium honeycomb
1.11. Cell size (C) (in)(mm)	3/8" – 9,52 mm

Mechanical specifications

2.1. Moment of inertia (J) (cm^4/m) DIN 53293	46,54
2.2. Rigidity (EJ) (KNcm^2/m) DIN 53293	325.764
2.3. Section modulus (W) (cm^3/m) DIN 53293	31,03
2.4. Audible reduction (Rw) (dB) EN ISO 717-1	25,00
2.5. Acoustic insulation (R_A) (dBA) EN ISO 717-1	24,30
2.6. Thermal resistance (R) (m^{2}K/W) UNE 92-202-89:1989	0,029
2.7. Thermal conductivity (λ) (W/mK) UNE 92-202-89:1989	1,076
2.8. Metal thermal expansion (mm/m)	2,3 Δ 100ºC
2.9. Temperature stability (ºC) (*)	-40 / + 80

(*) All processing jobs must be done at temperatures above 10 ° C

Aluminium sheets specifications

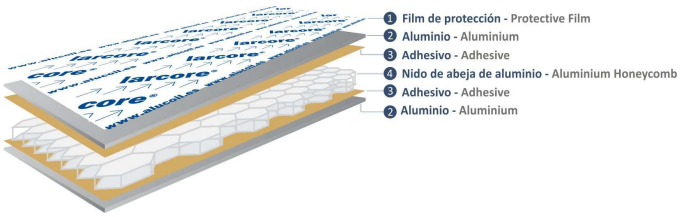
3.1. Aluminium alloy UNE EN 573-3	5005
3.2. Ultimate tensile strength (N/mm^2) UNE EN 485-2	130 < Rm < 165
3.3. Elasticity limit (N/mm^2) UNE EN 485-2	90 < $Rp_{0,2}$ < 155
3.4. Yield strength (A) (%) UNE EN 485-2	> 7
3.5. Modulus of elasticity (E) (N/mm^2)	70.000

Aluminium core specifications

4.1. Aluminium alloy UNE EN 573-3	3003
4.2. Compressive strength (MPa) DIN 53291	2,00
4.3. Core density (kg/m^3)	54
4.4. Anticorrosive pretreatment	Yes

Fire classification

5.1. Building market: EN 13501-1	A2-s1,d0
5.2. Railway market: UNE 23721-27	M1
NF P 92-501 – NF F 16-101	M1 – F1
5.3. Ship-building: International Maritime Organization (IMO)	IMO FTPC Part 5 surface flammability IMO FTPC Part 2 smoke density and toxicity IMO – RESOLUTION A.653 (16) **MED – US Coast Guard**



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