

# ALLIANCE ALLOY WHEELS CO.,LTD.

NO. 186, GONG 2ND RD., LONGTAN DISTRICT, TAOYUAN CITY 32559, TAIWAN

TEL: 886-3-4092555

FAX: 886-3-4092655

## Strength Test Statement



| oJWL                       | xJWL-T                      | oVIA                       | xSFI        | Dept.   |
|----------------------------|-----------------------------|----------------------------|-------------|---|
| Model                      | HY741                       | Loading (KG)               | 705KG       |  |
| Offset(mm)                 | 56                          | Nominal Designation of Rim | 20x 11.5 J  |   |
| Number of Bolt holes       | 5H                          | P.C.D(mm)                  | 114.3mm     |   |
| weight(kg)                 | 11.8kg                      | Structure                  | 1 pcs       |   |
| Material                   | A-356.2-T6                  | Manufacturing method       | Flow Forged |   |
| 1、Tire used for test       |                             |                            |             |   |
| Item                       | Nominal Designation of Tire |                            |             |   |
| Radial load Endurance test | 345/30R20                   |                            |             |   |
| Impact test                | 305/30R20                   |                            |             |   |

### 2、Testing conditions and results

a、Rotary bending fatigue test Date of test : (Month) 12 (Day) 25 (Year) 2024

Testing equipment approval number : VIA A-183

| Bending moment during test (KNm) | Rotational speed for test | Damage to disk wheel | Loosening of tightening section | Evaluation |
|----------------------------------|---------------------------|----------------------|---------------------------------|------------|
| 3.68                             | 100000                    | NONE                 | NONE                            | OK         |

F Used in calculation of bending moment (KN) (Kgf) F (F1): 8.49 r: 0.333 (m) d: 0.056 (m)

Calculated bending moment value M (KNm) (Kgf·m) M: 3.68 KNm

b、Radial load endurance test Date of test : (Month) 12 (Day) 26 (Year) 2024

Testing equipment approval number : VIA B-168

| Pre-test air Pressure (kPa) (kgf/cm <sup>2</sup> ) | Radial load during test (kn) | Rotational speed for test | Damage to Disk wheel | Loosening of fixtrue section etc. | Evaluation |
|--|------------------------------|---------------------------|----------------------|-----------------------------------|------------|
| 460  | 19.10                        | 500000                    | NONE                 | NONE                              | OK         |

F Used in calculation of radial load F (F1): 8.49 (KN) (Kgf)

Calculated Radial load Q: 19.10 (kN)

c、Impact test Date of test : (Month) 12 (Day) 25 (Year) 2024

Testing equipment approval number : VIA C-238

| Pre-test air pressure (kPa) (kgf/cm <sup>2</sup> ) | Weight mass(kg) | Drop height(mm) | Impact Position(13°) |     | Damage To disk wheel | Air leakage | Evaluation |
|--|-----------------|-----------------|----------------------|-----|----------------------|-------------|------------|
| 200  | 603             | 230             | 0                    | 180 | NONE                 | NONE        | OK         |

3、Overall evaluation : Qualified

4、Remarks : a、Position of load indication mark : reverse、disk

b、Rust-prevention treatment

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## Strength Test Statement



| oJWL                       | xJWL-T                      | oVIA                       | xSFI        | Dept.   |
|----------------------------|-----------------------------|----------------------------|-------------|---|
| Model                      | HY741                       | Loading (KG)               | 705KG       |  |
| Offset(mm)                 | 50                          | Nominal Designation of Rim | 20x 11 J    |   |
| Number of Bolt holes       | 5H                          | P.C.D(mm)                  | 114.3mm     |   |
| weight(kg)                 | 11.9kg                      | Structure                  | 1 pcs       |   |
| Material                   | A-356.2-T6                  | Manufacturing method       | Flow Forged |   |
| 1、Tire used for test       |                             |                            |             |   |
| Item                       | Nominal Designation of Tire |                            |             |   |
| Radial load Endurance test | 325/30R20                   |                            |             |   |
| Impact test                | 275/40R20                   |                            |             |   |

### 2、Testing conditions and results

a、Rotary bending fatigue test Date of test : (Month) 5 (Day) 16 (Year) 2025

Testing equipment approval number : VIA A-183

| Bending moment during test (KNm) | Rotational speed for test | Damage to disk wheel | Loosening of tightening section | Evaluation |
|----------------------------------|---------------------------|----------------------|---------------------------------|------------|
| 3.65                             | 100000                    | NONE                 | NONE                            | OK         |

F Used in calculation of bending moment (KN) (Kgf) F (F1): 8.49 r: 0.338 (m) d: 0.05 (m)

Calculated bending moment value M (KNm) (Kgf·m) M: 3.65 KNm

b、Radial load endurance test Date of test : (Month) 5 (Day) 20 (Year) 2025

Testing equipment approval number : VIA B-168

| Pre-test air Pressure (kPa) (kgf/cm <sup>2</sup> ) | Radial load during test (kn) | Rotational speed for test | Damage to Disk wheel | Loosening of fixtrue section etc. | Evaluation |
|--|------------------------------|---------------------------|----------------------|-----------------------------------|------------|
| 460  | 19.10                        | 500000                    | NONE                 | NONE                              | OK         |

F Used in calculation of radial load F (F1): 8.49 (KN) (Kgf)

Calculated Radial load Q: 19.10 (kN)

c、Impact test Date of test : (Month) 5 (Day) 16 (Year) 2025

Testing equipment approval number : VIA C-238

| Pre-test air pressure (kPa) (kgf/cm <sup>2</sup> ) | Weight mass(kg) | Drop height(mm) | Impact Position(13°) |     | Damage To disk wheel | Air leakage | Evaluation |
|--|-----------------|-----------------|----------------------|-----|----------------------|-------------|------------|
| 200  | 603             | 230             | 0                    | 180 | NONE                 | NONE        | OK         |

3、Overall evaluation : Qualified

4、Remarks : a、Position of load indication mark : reverse、disk

b、Rust-prevention treatment

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## Strength Test Statement



| oJWL                       | xJWL-T                      | oVIA                       | xSFI        | Dept.   |
|----------------------------|-----------------------------|----------------------------|-------------|---|
| Model                      | HY741                       | Loading (KG)               | 705KG       |  |
| Offset(mm)                 | 24                          | Nominal Designation of Rim | 20x 11 J    |   |
| Number of Bolt holes       | 5H                          | P.C.D(mm)                  | 114.3mm     |   |
| weight(kg)                 | 12.3kg                      | Structure                  | 1 pcs       |   |
| Material                   | A-356.2-T6                  | Manufacturing method       | Flow Forged |   |
| 1、Tire used for test       |                             |                            |             |   |
| Item                       | Nominal Designation of Tire |                            |             |   |
| Radial load Endurance test | 325/30R20                   |                            |             |   |
| Impact test                | 275/40R20                   |                            |             |   |

### 2、Testing conditions and results

a、Rotary bending fatigue test Date of test : (Month) 12 (Day) 28 (Year) 2024

Testing equipment approval number : VIA A-183

| Bending moment during test (KNm) | Rotational speed for test | Damage to disk wheel | Loosening of tightening section | Evaluation |
|----------------------------------|---------------------------|----------------------|---------------------------------|------------|
| 3.32                             | 100000                    | NONE                 | NONE                            | OK         |

F Used in calculation of bending moment (KN) (Kgf) F (F1): 8.49 r: 0.338 (m) d: 0.024 (m)

Calculated bending moment value M (KNm) (Kgf·m) M: 3.32 KNm

b、Radial load endurance test Date of test : (Month) 12 (Day) 29 (Year) 2024

Testing equipment approval number : VIA B-168

| Pre-test air Pressure (kPa) (kgf/cm <sup>2</sup> ) | Radial load during test (kn) | Rotational speed for test | Damage to Disk wheel | Loosening of fixtrue section etc. | Evaluation |
|--|------------------------------|---------------------------|----------------------|-----------------------------------|------------|
| 460  | 19.10                        | 500000                    | NONE                 | NONE                              | OK         |

F Used in calculation of radial load F (F1): 8.49 (KN) (Kgf)

Calculated Radial load Q: 19.10 (kN)

c、Impact test Date of test : (Month) 12 (Day) 28 (Year) 2024

Testing equipment approval number : VIA C-238

| Pre-test air pressure (kPa) (kgf/cm <sup>2</sup> ) | Weight mass(kg) | Drop height(mm) | Impact Position(13°) |     | Damage To disk wheel | Air leakage | Evaluation |
|--|-----------------|-----------------|----------------------|-----|----------------------|-------------|------------|
| 200  | 603             | 230             | 0                    | 180 | NONE                 | NONE        | OK         |

3、Overall evaluation : Qualified

4、Remarks : a、Position of load indication mark : reverse、disk

b、Rust-prevention treatment

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## Strength Test Statement



Dept.

| oJWL                       | xJWL-T                      | oVIA                       | xSFI        | Dept. |
|----------------------------|-----------------------------|----------------------------|-------------|-------|
| Model                      | HY741                       | Loading (KG)               | 705KG       |       |
| Offset(mm)                 | 35                          | Nominal Designation of Rim | 20x 10 J    |       |
| Number of Bolt holes       | 5H                          | P.C.D(mm)                  | 114.3mm     |       |
| weight(kg)                 | 12.4kg                      | Structure                  | 1 pcs       |       |
| Material                   | A-356.2-T6                  | Manufacturing method       | Flow Forged |       |
| 1、Tire used for test       |                             |                            |             |       |
| Item                       | Nominal Designation of Tire |                            |             |       |
| Radial load Endurance test | 285/50R20                   |                            |             |       |
| Impact test                | 255/35R20                   |                            |             |       |

### 2、Testing conditions and results

a、Rotary bending fatigue test Date of test : (Month) 5 (Day) 26 (Year) 2025

Testing equipment approval number : VIA A-183

| Bending moment during test (KNm) | Rotational speed for test | Damage to disk wheel | Loosening of tightening section | Evaluation |
|----------------------------------|---------------------------|----------------------|---------------------------------|------------|
| 3.68                             | 100000                    | NONE                 | NONE                            | OK         |

F Used in calculation of bending moment (KN) (Kgf) F (F1): 8.49 r: 0.363 (m) d: 0.035 (m)

Calculated bending moment value M (KNm) (Kgf·m) M: 3.68 KNm

b、Radial load endurance test Date of test : (Month) 5 (Day) 28 (Year) 2025

Testing equipment approval number : VIA B-168

| Pre-test air Pressure (kPa) (kgf/cm <sup>2</sup> ) | Radial load during test (kn) | Rotational speed for test | Damage to Disk wheel | Loosening of fixtrue section etc. | Evaluation |
|--|------------------------------|---------------------------|----------------------|-----------------------------------|------------|
| 460  | 19.10                        | 500000                    | NONE                 | NONE                              | OK         |

F Used in calculation of radial load F (F1): 8.49 (KN) (Kgf)

Calculated Radial load Q: 19.10 (kN)

c、Impact test Date of test : (Month) 5 (Day) 26 (Year) 2025

Testing equipment approval number : VIA C-238

| Pre-test air pressure (kPa) (kgf/cm <sup>2</sup> ) | Weight mass(kg) | Drop height(mm) | Impact Position(13°) |     | Damage To disk wheel | Air leakage | Evaluation |
|--|-----------------|-----------------|----------------------|-----|----------------------|-------------|------------|
| 200  | 603             | 230             | 0                    | 180 | NONE                 | NONE        | OK         |

3、Overall evaluation : Qualified

4、Remarks : a、Position of load indication mark : reverse、disk

b、Rust-prevention treatment

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## Strength Test Statement



| oJWL                       | xJWL-T                      | oVIA                       | xSFI         | Dept.       |
|----------------------------|-----------------------------|----------------------------|--------------|-------------|
| Model                      | HY741                       |                            | Loading (KG) | 700KG       |
| Offset(mm)                 | 56                          | Nominal Designation of Rim |              | 19× 11.5 J  |
| Number of Bolt holes       | 5H                          | P.C.D(mm)                  |              | 114.3mm     |
| weight(kg)                 | 11.1kg                      | Structure                  |              | 1 pcs       |
| Material                   | A-356.2-T6                  | Manufacturing method       |              | Flow Forged |
| 1、Tire used for test       |                             |                            |              |             |
| Item                       | Nominal Designation of Tire |                            |              |             |
| Radial load Endurance test | 345/35R19                   |                            |              |             |
| Impact test                | 295/35R19                   |                            |              |             |



### 2、Testing conditions and results

a、Rotary bending fatigue test Date of test : (Month) 12 (Day) 25 (Year) 2024

Testing equipment approval number : VIA A-183

| Bending moment during test (KNm) | Rotational speed for test | Damage to disk wheel | Loosening of tightening section | Evaluation |
|----------------------------------|---------------------------|----------------------|---------------------------------|------------|
| 3.66                             | 100000                    | NONE                 | NONE                            | OK         |

F Used in calculation of bending moment (KN) (Kgf) F (F1): 8.39 r: 0.336 (m) d: 0.056 (m)

Calculated bending moment value M (KNm) (Kgf·m) M: 3.66 KNm

b、Radial load endurance test Date of test : (Month) 12 (Day) 26 (Year) 2024

Testing equipment approval number : VIA B-168

| Pre-test air Pressure (kPa) (kgf/cm <sup>2</sup> ) | Radial load during test (kn) | Rotational speed for test | Damage to Disk wheel | Loosening of fixtrue section etc. | Evaluation |
|--|------------------------------|---------------------------|----------------------|-----------------------------------|------------|
| 460  | 18.88                        | 500000                    | NONE                 | NONE                              | OK         |

F Used in calculation of radial load F (F1): 8.39 (KN) (Kgf)

Calculated Radial load Q: 18.88 (kN)

c、Impact test Date of test : (Month) 12 (Day) 25 (Year) 2024

Testing equipment approval number : VIA C-238

| Pre-test air pressure (kPa) (kgf/cm <sup>2</sup> ) | Weight mass(kg) | Drop height(mm) | Impact Position(13°) |     | Damage To disk wheel | Air leakage | Evaluation |
|--|-----------------|-----------------|----------------------|-----|----------------------|-------------|------------|
| 200  | 600             | 230             | 0                    | 180 | NONE                 | NONE        | OK         |

3、Overall evaluation : Qualified

4、Remarks : a、Position of load indication mark : reverse、disk

b、Rust-prevention treatment

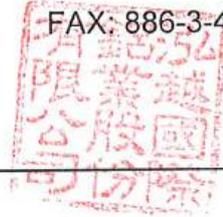
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## Strength Test Statement



| oJWL                       | xJWL-T                      | oVIA                       | xSFI         | Dept.       |
|----------------------------|-----------------------------|----------------------------|--------------|-------------|
| Model                      | HY741                       |                            | Loading (KG) | 700KG       |
| Offset(mm)                 | 50                          | Nominal Designation of Rim |              | 19x 11 J    |
| Number of Bolt holes       | 5H                          | P.C.D(mm)                  |              | 114.3mm     |
| weight(kg)                 | 11.2kg                      | Structure                  |              | 1 pcs       |
| Material                   | A-356.2-T6                  | Manufacturing method       |              | Flow Forged |
| 1、Tire used for test       |                             |                            |              |             |
| Item                       | Nominal Designation of Tire |                            |              |             |
| Radial load Endurance test | 285/40R19                   |                            |              |             |
| Impact test                | 275/35R19                   |                            |              |             |



### 2、Testing conditions and results

a、Rotary bending fatigue test Date of test : (Month) 5 (Day) 27 (Year) 2025  
 Testing equipment approval number : VIA A-183

| Bending moment during test (KNm) | Rotational speed for test | Damage to disk wheel | Loosening of tightening section | Evaluation |
|----------------------------------|---------------------------|----------------------|---------------------------------|------------|
| 3.53                             | 100000                    | NONE                 | NONE                            | OK         |

F Used in calculation of bending moment (KN) (Kgf) F (F1): 8.39 r: 0.329 (m) d: 0.05 (m)  
 Calculated bending moment value M (KNm) (Kgf·m) M: 3.53 KNm

b、Radial load endurance test Date of test : (Month) 5 (Day) 29 (Year) 2025  
 Testing equipment approval number : VIA B-168

| Pre-test air Pressure (kPa) (kgf/cm <sup>2</sup> ) | Radial load during test (kn) | Rotational speed for test | Damage to Disk wheel | Loosening of fixtrue section etc. | Evaluation |
|--|------------------------------|---------------------------|----------------------|-----------------------------------|------------|
| 460  | 18.88                        | 500000                    | NONE                 | NONE                              | OK         |

F Used in calculation of radial load F (F1): 8.39 (KN) (Kgf)  
 Calculated Radial load Q: 18.88 (kN)

c、Impact test Date of test : (Month) 5 (Day) 27 (Year) 2025  
 Testing equipment approval number : VIA C-238

| Pre-test air pressure (kPa) (kgf/cm <sup>2</sup> ) | Weight mass(kg) | Drop height(mm) | Impact Position(13°) |     | Damage To disk wheel | Air leakage | Evaluation |
|--|-----------------|-----------------|----------------------|-----|----------------------|-------------|------------|
| 200  | 600             | 230             | 0                    | 180 | NONE                 | NONE        | OK         |

3、Overall evaluation : Qualified

4、Remarks : a、Position of load indication mark : reverse、disk  
 b、Rust-prevention treatment

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## Strength Test Statement



| oJWL                       | xJWL-T     | oVIA                        | xSFI         | Dept.       |
|----------------------------|------------|-----------------------------|--------------|-------------|
| Model                      | HY741      |                             | Loading (KG) | 700KG       |
| Offest(mm)                 | 24         | Nominal Designation of Rim  |              | 19x 11 J    |
| Number of Bolt holes       | 5H         | P.C.D(mm)                   |              | 114.3mm     |
| weight(kg)                 | 11.4kg     | Structure                   |              | 1 pcs       |
| Material                   | A-356.2-T6 | Manufacturing method        |              | Flow Forged |
| 1、Tire used for test       |            |                             |              |             |
| Item                       |            | Nominal Designation of Tire |              |             |
| Radial load Endurance test |            | 285/40R19                   |              |             |
| Impact test                |            | 275/35R19                   |              |             |



### 2、Testing conditions and results

a、Rotary bending fatigue test Date of test : (Month) 1 (Day) 19 (Year) 2025  
 Testing equipment approval number : VIA A-183

| Bending moment during test (KNm) | Rotational speed for test | Damage to disk wheel | Loosening of tightening section | Evaluation |
|----------------------------------|---------------------------|----------------------|---------------------------------|------------|
| 3.20                             | 100000                    | NONE                 | NONE                            | OK         |

F Used in calculation of bending moment (KN) (Kgf) F (F1): 8.39 r: 0.329 (m) d: 0.024 (m)  
 Calculated bending moment value M (KNm) (Kgf·m) M: 3.20 KNm

b、Radial load endurance test Date of test : (Month) 1 (Day) 21 (Year) 2025  
 Testing equipment approval number : VIA B-168

| Pre-test air Pressure (kPa) (kgf/cm <sup>2</sup> ) | Radial load during test (kn) | Rotational speed for test | Damage to Disk wheel | Loosening of fixtrue section etc. | Evaluation |
|--|------------------------------|---------------------------|----------------------|-----------------------------------|------------|
| 460  | 18.88                        | 500000                    | NONE                 | NONE                              | OK         |

F Used in calculation of radial load F (F1): 8.39 (KN) (Kgf)  
 Calculated Radial load Q: 18.88 (kN)

c、Impact test Date of test : (Month) 1 (Day) 19 (Year) 2025  
 Testing equipment approval number : VIA C-238

| Pre-test air pressure (kPa) (kgf/cm <sup>2</sup> ) | Weight mass(kg) | Drop height(mm) | Impact Position(13°) |     | Damage To disk wheel | Air leakage | Evaluation |
|--|-----------------|-----------------|----------------------|-----|----------------------|-------------|------------|
| 200  | 600             | 230             | 0                    | 180 | NONE                 | NONE        | OK         |

3、Overall evaluation : Qualified

4、Remarks : a、Position of load indication mark : reverse、disk  
 b、Rust-prevention treatment

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## Strength Test Statement



| oJWL                       | xJWL-T                      | oVIA                       | xSFI         | Dept.       |
|----------------------------|-----------------------------|----------------------------|--------------|-------------|
| Model                      | HY741                       |                            | Loading (KG) | 700KG       |
| Offset(mm)                 | 35                          | Nominal Designation of Rim |              | 19x 10 J    |
| Number of Bolt holes       | 5H                          | P.C.D(mm)                  |              | 114.3mm     |
| weight(kg)                 | 11.6kg                      | Structure                  |              | 1 pcs       |
| Material                   | A-356.2-T6                  | Manufacturing method       |              | Flow Forged |
| 1、Tire used for test       |                             |                            |              |             |
| Item                       | Nominal Designation of Tire |                            |              |             |
| Radial load Endurance test | 285/40R19                   |                            |              |             |
| Impact test                | 255/35R19                   |                            |              |             |



### 2、Testing conditions and results

a、Rotary bending fatigue test Date of test : (Month) 7 (Day) 25 (Year) 2024

Testing equipment approval number : VIA A-183

| Bending moment during test (KNm) | Rotational speed for test | Damage to disk wheel | Loosening of tightening section | Evaluation |
|----------------------------------|---------------------------|----------------------|---------------------------------|------------|
| 3.34                             | 100000                    | NONE                 | NONE                            | OK         |

F Used in calculation of bending moment (KN) (Kgf) F (F1): 8.39 r: 0.329 (m) d: 0.035 (m)

Calculated bending moment value M (KNm) (Kgf·m) M: 3.34 KNm

b、Radial load endurance test Date of test : (Month) 7 (Day) 27 (Year) 2024

Testing equipment approval number : VIA B-168

| Pre-test air Pressure (kPa) (kgf/cm <sup>2</sup> ) | Radial load during test (kn) | Rotational speed for test | Damage to Disk wheel | Loosening of fixtrue section etc. | Evaluation |
|--|------------------------------|---------------------------|----------------------|-----------------------------------|------------|
| 460  | 18.88                        | 500000                    | NONE                 | NONE                              | OK         |

F Used in calculation of radial load F (F1): 8.39 (KN) (Kgf)

Calculated Radial load Q: 18.88 (kN)

c、Impact test Date of test : (Month) 7 (Day) 25 (Year) 2024

Testing equipment approval number : VIA C-238

| Pre-test air pressure (kPa) (kgf/cm <sup>2</sup> ) | Weight mass(kg) | Drop height(mm) | Impact Position(13°) |     | Damage To disk wheel | Air leakage | Evaluation |
|--|-----------------|-----------------|----------------------|-----|----------------------|-------------|------------|
| 200  | 600             | 230             | 0                    | 180 | NONE                 | NONE        | OK         |

3、Overall evaluation : Qualified

4、Remarks : a、Position of load indication mark : reverse、disk

b、Rust-prevention treatment