

Appendix 3B

New issue announcement, application for quotation of additional securities and agreement

Information or documents not available now must be given to ASX as soon as available. Information and documents given to ASX become ASX's property and may be made public.

Introduced 01/07/96 Origin: Appendix 5 Amended 01/07/98, 01/09/99, 01/07/00, 30/09/01, 11/03/02, 01/01/03, 24/10/05, 01/08/12, 04/03/13

Name of entity

James Hardie Industries plc

ABN

097 829 895 Incorporated in Ireland. The liability of members is limited.

We (the entity) give ASX the following information.

Part 1 - All issues

You must complete the relevant sections (attach sheets if there is not enough space).

1 +Class of +securities issued or to
be issued

Two separate issuances:

- A) Ordinary shares/CDIs issued on vesting of Restricted Stock Units (**RSUs**); and
- B) RSUs, being contractual entitlements granted to employees under the James Hardie Industries 2001 Equity Incentive Plan (**2001 Plan**) to be issued ordinary shares/CDIs upon satisfaction of certain conditions.

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<p>2 Number of ⁺securities issued or to be issued (if known) or maximum number which may be issued</p>	<p>Total of 301,264 securities, broken down as follows:</p> <p>A) RSUs vesting: 300,744 ordinary shares/CDIs; and</p> <p>B) RSUs granted on 9 December 2019 (US time): 520.</p>
<p>3 Principal terms of the ⁺securities (e.g. if options, exercise price and expiry date; if partly paid ⁺securities, the amount outstanding and due dates for payment; if ⁺convertible securities, the conversion price and dates for conversion)</p>	<p>A) RSUs vesting: 300,744 ordinary shares/CDIs issued on vesting of RSUs; and</p> <p>B) 520 RSUs which will vest on 9 Dec 2020:</p> <p>Upon vesting, the holder of a RSU will be entitled to be issued one ordinary share/CDI for each RSU held.</p>
<p>4 Do the ⁺securities rank equally in all respects from the ⁺issue date with an existing ⁺class of quoted ⁺securities?</p> <p>If the additional ⁺securities do not rank equally, please state:</p> <ul style="list-style-type: none"> <input type="checkbox"/> the date from which they do <input type="checkbox"/> the extent to which they participate for the next dividend, (in the case of a trust, distribution) or interest payment <input type="checkbox"/> the extent to which they do not rank equally, other than in relation to the next dividend, distribution or interest payment 	<p>A) Yes, ordinary shares/CDIs issued on vesting of RSUs rank equally with issued ordinary shares/CDIs; and</p> <p>B) RSUs granted: Not applicable.</p>

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5	Issue price or consideration	<p>A) 300,744 RSUs vesting: No amount payable; and</p> <p>B) 520 RSUs granted: No cash consideration was paid.</p>
6	Purpose of the issue (If issued as consideration for the acquisition of assets, clearly identify those assets)	<p>A) Vesting of RSUs: 300,744 RSUs vesting pursuant to the 2001 Plan; and</p> <p>B) RSUs granted: 520 RSUs granted as awards under the 2001 Plan and intended to promote the Company's long term financial interests by encouraging management to acquire an ownership position in the Company, aligning their interests with those of the Company's security holders.</p>
6a	<p>Is the entity an ⁺eligible entity that has obtained security holder approval under rule 7.1A?</p> <p>If Yes, complete sections 6b – 6h <i>in relation to the ⁺securities the subject of this Appendix 3B</i>, and comply with section 6i</p>	<p>No. Equity securities issued under the 2001 Plan are no longer the subject of security holder approval.</p>
6b	The date the security holder resolution under rule 7.1A was passed	Not applicable
6c	Number of ⁺ securities issued without security holder approval under rule 7.1	520
6d	Number of ⁺ securities issued with security holder approval under rule 7.1A	Not applicable

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6e	Number of ⁺ securities issued with security holder approval under rule 7.3, or another specific security holder approval (specify date of meeting)	Not applicable
6f	Number of ⁺ securities issued under an exception in rule 7.2	Not applicable
6g	If ⁺ securities issued under rule 7.1A, was issue price at least 75% of 15 day VWAP as calculated under rule 7.1A.3? Include the ⁺ issue date and both values. Include the source of the VWAP calculation.	Not applicable
6h	If ⁺ securities were issued under rule 7.1A for non-cash consideration, state date on which valuation of consideration was released to ASX Market Announcements	Not applicable
6i	Calculate the entity's remaining issue capacity under rule 7.1 and rule 7.1A – complete Annexure 1 and release to ASX Market Announcements	65,808,271 (Annexure 1 attached)
7	⁺ Issue dates Note: The issue date may be prescribed by ASX (refer to the definition of issue date in rule 19.12). For example, the issue date for a pro rata entitlement issue must comply with the applicable timetable in Appendix 7A. Cross reference: item 33 of Appendix 3B.	9 December 2019

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	Number	+Class
8 Number and +class of all +securities quoted on ASX (including the +securities in section 2 if applicable)	443,000,471	Ordinary shares/CDIs

	Number	+Class
9 Number and +class of all +securities not quoted on ASX (including the +securities in section 2 if applicable)	<p>540,506 (equivalent to 540,506 CDIs)</p> <p>2,854,918 (equivalent to 2,854,918 CDIs)</p> <p>535,794 2006 Plan RSUs have been cancelled.</p> <p>12,727 2001 Plan RSUs have been cancelled.</p>	<p>2001 Plan RSUs</p> <p>2006 Plan RSUs</p>

10 Dividend policy (in the case of a trust, distribution policy) on the increased capital (interests)	<p>A) RSUs vested: Ordinary shares/CDIs issued on vesting of RSUs rank for dividends equally with issued ordinary shares/CDIs; and</p> <p>B) RSUs granted: Do not rank for dividends.</p>
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Part 2 - Pro rata issue

11 Is security holder approval required?	Not applicable
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12	Is the issue renounceable or non-renounceable?	Not applicable
13	Ratio in which the ⁺ securities will be offered	Not applicable
14	⁺ Class of ⁺ securities to which the offer relates	Not applicable
15	⁺ Record date to determine entitlements	Not applicable
16	Will holdings on different registers (or subregisters) be aggregated for calculating entitlements?	Not applicable
17	Policy for deciding entitlements in relation to fractions	Not applicable
18	<p>Names of countries in which the entity has security holders who will not be sent new offer documents</p> <p>Note: Security holders must be told how their entitlements are to be dealt with.</p> <p>Cross reference: rule 7.7.</p>	Not applicable
19	Closing date for receipt of acceptances or renunciations	Not applicable
20	Names of any underwriters	Not applicable

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21	Amount of any underwriting fee or commission	Not applicable
22	Names of any brokers to the issue	Not applicable
23	Fee or commission payable to the broker to the issue	Not applicable
24	Amount of any handling fee payable to brokers who lodge acceptances or renunciations on behalf of security holders	Not applicable
25	If the issue is contingent on security holders' approval, the date of the meeting	Not applicable
26	Date entitlement and acceptance form and offer documents will be sent to persons entitled	Not applicable
27	If the entity has issued options, and the terms entitle option holders to participate on exercise, the date on which notices will be sent to option holders	Not applicable
28	Date rights trading will begin (if applicable)	Not applicable
29	Date rights trading will end (if applicable)	Not applicable

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30	How do security holders sell their entitlements <i>in full</i> through a broker?	Not applicable
31	How do security holders sell <i>part</i> of their entitlements through a broker and accept for the balance?	Not applicable
32	How do security holders dispose of their entitlements (except by sale through a broker)?	Not applicable
33	⁺ Issue date	Not applicable

Part 3 - Quotation of securities

You need only complete this section if you are applying for quotation of securities

34 Type of ⁺securities
(tick one)

(a) ☒ ⁺Securities described in Part 1

(b) ☐ All other ⁺securities

Example: restricted securities at the end of the escrowed period, partly paid securities that become fully paid, employee incentive share securities when restriction ends, securities issued on expiry or conversion of convertible securities

Entities that have ticked box 34(a)

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Additional securities forming a new class of securities

Tick to indicate you are providing the information or documents

- 35 If the ⁺securities are ⁺equity securities, the names of the 20 largest holders of the additional ⁺securities, and the number and percentage of additional ⁺securities held by those holders
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- 36 If the ⁺securities are ⁺equity securities, a distribution schedule of the additional ⁺securities setting out the number of holders in the categories
 1 - 1,000
 1,001 - 5,000
 5,001 - 10,000
 10,001 - 100,000
 100,001 and over
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- 37 A copy of any trust deed for the additional ⁺securities

Entities that have ticked box 34(b)

38 Number of ⁺ securities for which ⁺ quotation is sought	Not applicable
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39 ⁺ Class of ⁺ securities for which quotation is sought	Not applicable
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<p>40 Do the ⁺securities rank equally in all respects from the ⁺issue date with an existing ⁺class of quoted ⁺securities?</p> <p>If the additional ⁺securities do not rank equally, please state:</p> <p><input type="checkbox"/> the date from which they do</p> <p><input type="checkbox"/> the extent to which they participate for the next dividend, (in the case of a trust, distribution) or interest payment</p> <p><input type="checkbox"/> the extent to which they do not rank equally, other than in relation to the next dividend, distribution or interest payment</p>	<p>Not applicable</p>	
<p>41 Reason for request for quotation now</p> <p>Example: In the case of restricted securities, end of restriction period</p> <p>(if issued upon conversion of another ⁺security, clearly identify that other ⁺security)</p>	<p>Not applicable</p>	
<p>42 Number and ⁺class of all ⁺securities quoted on ASX (including the ⁺securities in clause 38)</p>	<p>Number</p> <p>Not applicable</p>	<p>⁺Class</p> <p>Not applicable</p>

+ See chapter 19 for defined terms.

Quotation agreement

- 1 +Quotation of our additional +securities is in ASX's absolute discretion. ASX may quote the +securities on any conditions it decides.
- 2 We warrant the following to ASX.
 - ☐ The issue of the +securities to be quoted complies with the law and is not for an illegal purpose.
 - ☐ There is no reason why those +securities should not be granted +quotation.
 - ☐ An offer of the +securities for sale within 12 months after their issue will not require disclosure under section 707(3) or section 1012C(6) of the Corporations Act.

Note: An entity may need to obtain appropriate warranties from subscribers for the securities in order to be able to give this warranty
 - ☐ Section 724 or section 1016E of the Corporations Act does not apply to any applications received by us in relation to any +securities to be quoted and that no-one has any right to return any +securities to be quoted under sections 737, 738 or 1016F of the Corporations Act at the time that we request that the +securities be quoted.
 - ☐ If we are a trust, we warrant that no person has the right to return the +securities to be quoted under section 1019B of the Corporations Act at the time that we request that the +securities be quoted.
- 3 We will indemnify ASX to the fullest extent permitted by law in respect of any claim, action or expense arising from or connected with any breach of the warranties in this agreement.
- 4 We give ASX the information and documents required by this form. If any information or document is not available now, we will give it to ASX before +quotation of the +securities begins. We acknowledge that ASX is relying on the information and documents. We warrant that they are (will be) true and complete.

Sign here: /s/Natasha Mercer⁽¹⁾ Date: 9 December 2019
Company Secretary

Print name: Natasha Mercer.....

⁽¹⁾ Appendix 3B – Authorised to be filed with the ASX by Natasha Mercer, Company Secretary, James Hardie Industries plc

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Appendix 3B – Annexure 1

Calculation of placement capacity under rule 7.1 and rule 7.1A for eligible entities

Introduced 01/08/12 Amended 04/03/13

Part 1

Rule 7.1 – Issues exceeding 15% of capital	
Step 1: Calculate “A”, the base figure from which the placement capacity is calculated	
Insert number of fully paid ⁺ ordinary securities on issue 12 months before the ⁺ issue date or date of agreement to issue	442,026,941
Add the following: <ul style="list-style-type: none"> Number of fully paid ⁺ ordinary securities issued in that 12 month period under an exception in rule 7.2 Number of fully paid ⁺ ordinary securities issued in that 12 month period with shareholder approval Number of partly paid ⁺ ordinary securities that became fully paid in that 12 month period Note: <ul style="list-style-type: none"> Include only ordinary securities here – other classes of equity securities cannot be added Include here (if applicable) the securities the subject of the Appendix 3B to which this form is annexed It may be useful to set out issues of securities on different dates as separate line items 	973,530 Not applicable Not applicable
Subtract the number of fully paid ⁺ ordinary securities cancelled during that 12 month period	0
“A”	443,000,471

Step 2: Calculate 15% of “A”	
“B”	0.15 <i>[Note: this value cannot be changed]</i>
Multiply “A” by 0.15	66,450,070
Step 3: Calculate “C”, the amount of placement capacity under rule 7.1 that has already been used	
Insert number of ⁺ equity securities issued or agreed to be issued in that 12 month period <i>not counting</i> those issued: <ul style="list-style-type: none"> • Under an exception in rule 7.2 • Under rule 7.1A • With security holder approval under rule 7.1 or rule 7.4 Note: <ul style="list-style-type: none"> • <i>This applies to equity securities, unless specifically excluded – not just ordinary securities</i> • <i>Include here (if applicable) the securities the subject of the Appendix 3B to which this form is annexed</i> • <i>It may be useful to set out issues of securities on different dates as separate line items</i> 	641,799
“C”	641,799
Step 4: Subtract “C” from [“A” x “B”] to calculate remaining placement capacity under rule 7.1	
“A” x 0.15 <i>Note: number must be same as shown in Step 2</i>	66,450,070
Subtract “C” <i>Note: number must be same as shown in Step 3</i>	(641,799)
Total [“A” x 0.15] – “C”	65,808,271 <i>[Note: this is the remaining placement capacity under rule 7.1]</i>

+ See chapter 19 for defined terms.

Part 2

Rule 7.1A – Additional placement capacity for eligible entities	
Step 1: Calculate “A”, the base figure from which the placement capacity is calculated	
“A” <i>Note: number must be same as shown in Step 1 of Part 1</i>	Not applicable
Step 2: Calculate 10% of “A”	
“D”	0.10 <i>Note: this value cannot be changed</i>
Multiply “A” by 0.10	Not applicable
Step 3: Calculate “E”, the amount of placement capacity under rule 7.1A that has already been used	
Insert number of ⁺ equity securities issued or agreed to be issued in that 12 month period under rule 7.1A Notes: <ul style="list-style-type: none"> • <i>This applies to equity securities – not just ordinary securities</i> • <i>Include here – if applicable – the securities the subject of the Appendix 3B to which this form is annexed</i> • <i>Do not include equity securities issued under rule 7.1 (they must be dealt with in Part 1), or for which specific security holder approval has been obtained</i> • <i>It may be useful to set out issues of securities on different dates as separate line items</i> 	Not applicable
“E”	Not applicable

Step 4: Subtract “E” from [“A” x “D”] to calculate remaining placement capacity under rule 7.1A	
“A” x 0.10 <i>Note: number must be same as shown in Step 2</i>	Not applicable
Subtract “E” <i>Note: number must be same as shown in Step 3</i>	Not applicable
Total [“A” x 0.10] – “E”	Not applicable <i>Note: this is the remaining placement capacity under rule 7.1A</i>

+ See chapter 19 for defined terms.