Remark:

Item 4.1 and Item 4.2 Fire Resistance Test

1. Before filling in the service application form, the Client should submit a formal letter regarding the full of test specimen to the institute, including the drawings of the test specimen (including but not limited to the exposed face, unexposed face, cross sections, longitudinal sections, structural skeleton diagrams, necessary structural drawings and installation method drawings, etc.), component information of the test specimen (including but not limited to the data sheet of the test specimen component, hardware accessories and materials product catalog or product manual, etc.) and the latest business license of the test specimen manufacturer, and the customer must arrange for the institute's staff to visit the test specimen manufacturer's factory (production or assembly factory) for on-site evaluation. In order for this institute to confirm the production plant, the structure and material of the test specimen.
2. After the Proforma invoice is issued, settle payment within 15 days, otherwise the entrustment testing will be cancelled automatically.
3. After settlement of the service fee, the Institute will communicate and make appointment with the Client, and notify the installation date of the specimen, the testing date and the testing place by letter.
4. After settlement of the service fee and confirmed the testing information, the Institute will arrange the test in the laboratory locate in Macao or the domestic laboratory location in China according with the current test schedule. The Client cannot object the arranged testing laboratory and the Institute reserves the right of final decision.
5. The Client is required to make appointment for the test within 180 days after the settlement of the service fee, otherwise the Institute will discontinue the provision of service.
6. After the settlement of the service fee, if the Client requests a postponement of the appointment, the test date can be postponed AT MOST once (1 time) and needs to be rearranged based on the actual situation of scheduling judged by the Institute. If the test cannot be carried out on the rearranged test date, the testing service will be cancelled. However, the Client shall be responsible for the delay of the completion period of the relevant projects due to the postponement foresaid.
7. After the settlement of the service fee and confirmation of the test date, if the Client requests a postponement of the testing service within 10 working days before the appointed testing date, the institute will charge the service fee of postponement according to item 4.1.13.
8. The Client is required to prepare the testing specimen according to the institute’s requirements, the dimension of the specimen should not be larger than the recommend size of 3000mm x

3000mm (The actual dimensions should be further confirmed between the Client and the institute). The Client needs to prepare their own tools and materials for installation and sealing of test specimen, and the installer must prepare and wear personal protective equipment (including masks, helmets, safety shoes, reflective clothing, etc.), pleaed note that for regarding fixation, the Client should install the test specimen on the test frame according to the actual application conditions). The institute engineer will conduct the verification and inspection before the fire resistance test.

9. For the fire resistance test, the Client shall finish the transport and installation of the test specimen to the testing frame provided by the Institute, and the gaps of the specimens are sealed by the Client based on the practical application and the Institute shall not be responsible for any installation situation and cost involved.

- Before transporting test specimen to the institute's designated place, the Client needs to contact the institute's staff at least one working day in advance to coordinate related matters. If large container trucks or cranes are needed to transport the test specimen, there is a chance that public roads will be occupied. Specimens can only be transported to the institute after contacting the institute's staff at least one working day in advance, and only outside designated office hours.
- In addition to transporting the test specimen to the institute's designated testing laboratory, the Client also needs to transport a sample board of the test specimen to the institute's office.
- The Client shall communicate and confirm the condition of the testing frame with our engineer in advance. If the Client fails to complete the installation of the test specimen within the General Working Hours arranged by IDQ and needs to extend the installation outside it, IDQ will charge an additional fee for the extended installation time according to the standard of MOP$1,000.00/hour (The part less than one hour is counted as one hour).
- If the Client fails to complete the installation of the test specimen within the time arranged by IDQ, which leads to the relevant test cannot be carried out as scheduled, IDQ will record that as once (1 time) postponement according to the Clause 6, the Client shall remove the test specimen and clean up all garbage caused by the installation and demolition work on/before the original test date. In this case, IDQ will charge 30% of the service fee as administrative expenses according to Clause 7 above whilst any liability arising therefrom shall be borne by the Client. If Client does not remove the specimen before the testing date, the institute will remove the specimen and discard it and charge the demolition fee of the test specimen according to item 4.1.16.

10. After the installation of the test specimen, the Client is required to clean up the installation site and evacuate all waste generated by themselves. If not, extra service fee will be charged the cleaning fee of clean up the installation site according to item 4.1.15.
11. After the Client completes the installation of the test specimen, the institute staff will conduct the functional testing of the test specimen before testing (including but not limited to functional testing of switch actions and hardware accessories); and will check the dimensions of the test specimen, including but not limited to whether the height, width, thickness of the test specimen, the size and installation position of the hardware accessories, the size and installation position of the window, and the size of each door gap (or gate gap) are consistent with the drawing; if the functional test of the test specimen is abnormal or If the measured dimensions are inconsistent with the drawings, the Client must complete the adjustment of the test specimen and submit the corrected drawings before the test date.
12. Before testing, if the information submitted by the Client is incomplete, or the test specimen does not correspond the drawing submitted by the Client, or the function of the test specimen fails to operate normally, the Client must complete modifications and adjustments before the scheduled test date and time. If the Client does not complete the modification and adjustment of the test specimen before the scheduled test date and time, the institute has the right to request a postponement of the test date. If the test date is postponed due to the above reasons, the Client must dismantle the test specimen and clean up all waste generated by the installation and dismantling work on the original test date or within 3 days after the test date, and extra fee for delayed testing will be charged according to the price list item 4.1.13. If the Client does not remove the test specimen on the test date or within 3 days after the test date, the institute will remove the test specimen and discard it, and additional fees will be charged according to the price list item 4.1.16. The testing service can only be postponed once at most, and the institute will reschedule the postponed test date according to the schedule. If the Client is still unable to test on the reschedule the test date by the institute, the relevant testing services will be canceled. The Client is responsible for any impact on the completion period of the relevant project due to delayed testing.
13. Prior to the fire test, the Institute will conduct a functional test or leakage test (if applicable) on the test specimen and record the test results. If the test specimen cannot complete the functional test or the result of the leakage test exceeds the standard requirements, the test specimen will be judged to have failed the functional test or leakage test. If the functional test or leakage test is required to be re-tested, additional test fee for functional test or leakage test will be charged according to 4.1.17 in the price list. In addition, if the test specimen fails the

functional test or leakage test, the institute has the right to request a postponement of the test date. If the test date is postponed due to the above reasons, the Client must dismantle the test specimen and clean up all waste generated by the installation and dismantling work on the original test date or within 1 day after the test date, and extra fee for delayed testing will be charged according to the price list item 4.1.13. If the Client does not remove the test specimen on the test date or within 1 day after the test date, the institute will remove the test specimen and discard it, and additional fees will be charged according to the price list item 4.1.16.

14. If the Client does not pay the fee for deferred testing and/or removal of the test piece will influence the test schedule,the institute accept the application for a new fire resistance test after the client paid the fee.
15. The Client needs to submit the list and contact information of the personnel who will witness the test at least three working days before the test date. The Client can send up to at most two people to witness the test.
16. At the tset date, the test will start after the Client confirms the installation and the surrounding environment situation of the test specimen.
17. After completed the fire resistance test, ONE Chinese version report, including the structure, installation, testing process and results of the specimen, will be given to the Client, and the test result is only applicable to the condition of the test specimen.
18. In general, if the Client has submitted all correct relevant information regarding the fire resistance test, such as drawing, components description and specimen, the test result will be informed after the test and the formal test report will be issued within 30 working days. However, if the Client do not submit drawing, components description and specimen in consistent with the testing specimen, the Institute have the right to postpone the issue the corresponding test report unless correct information have been submitted by the test sponsor. If the test sponsor cannot revise and submit the correct information of the test specimen within 90 days, the Institute will not issue the test report and the test result will be cancelled.
19. The name of the test sponsor on the report is consistent with the Client name on the service request form.
20. The test report is valid only for 3 years. Renewal application must be applied before the renew date of the test report by the Client with the relevant supporting documents, otherwise the subsequent assessment process may be affected or IDQ has the right to reject the assessment for the expired report. After the documents checked by our engineer, the Client shall arrange our visit to the factory of the manufacturer (production or assembly plant) for on-site evaluation.

When all conditions have been checked met, the relevant test report will be evaluated by IDQ and used further (detail as item 4.1.11.1).

21. For the fire resistance test, the Institute is only responsible for the test of physical properties of the specimen under specific test conditions / standard, the usage of the test report mainly depends on the Client, any modifications made to the structure and material of the specimen after the test will invalidate the test report automatically.
22. Only one fire resistence test report will be issued to the Client, and the name of the Client on the service request form MUST be the same as the test sponsor stated on the test report; Extra cost will be charged for extra test report copy (TRUE COPY) and only the Client can apply for extra test report. The Institute will keep a test report for their own filing purpose, and the Institute have the rights for any reporting issue.
23. The Client should collect their test report within 90 days after receiving the notice from the Institute. If not, the Institute has the right to cancel the test report and result.
24. During the provision of technical services, the Institute shall not be liable for any failure, damage, loss, or compensation arising out of any service which is not caused by the Institute.
25. In any postponement, or the cannot performed of partially/ totally service, which is due to factor beyond the control of IDQ, for instance, directly or indirectly caused by any failure of the Client to comply with its obligations hereunder or any force majeure, IDQ shall not hold any responsibility.
26. The Institute reserves the right of final decision for any argument regarding the fire resistence test of testing equipment, process, results and content of the test report.
27. Due to the public interest, such type of reports must be reviewed and backed up by Corpo do Bombeiros as approval (in Macau). Therefore, all reports of Fire Resistance types issued by IDQ will be in triplicate, one for the Client, one for IDQ and one for Corpo do Bombeiros.

Remark:

Item 4.1.1 Fire Resistance Test for Fire Door / 4.1.2 Fire Resistance Test for Partition / Wall / 4.1.3 Fire Resistance Test for Fire Rated Glass/Glazing / 4.1.4 Fire Resistance Test for Fire Curtain/ Fire Shutter

1. Referring to the related information provided by the Client, in order to meet the international standards, the fire resistance test will be conducted in accordance to British Standards BS 476-20&22:1987. In addition, the testing conditions and corresponding equipment will be implemented in accordance to British Standards BS 476-20&22:1987.
2. During the test, the temperature inside the furnace will be increased according to the “Standard temperature/time curve” as mentioned in British Standard BS 476-20:1987. Unless specified by the Client, the fire resistance test only measures and records the Integrity and Insulation of the specimen.
3. For the test, the institute only reports the integrity and/ or insulation time of the specimen in accordance with the test standard. The institute also reports the failure of integrity and/ or insulation, if applicable. If the Client needs the institute to report the statement of conformity of the test result, the institute shall only provide the conformity decision based on the test standard and the test result, or the Client shall provide the standard and/ or technical specification of the statement of conformity to the institute. The institute does not formulate the decision rule.

Remark:

Item 4.1.5 Fire Resistance Test for Fire Damper

1. Referring to the related information provided by the Client, in order to meet the international standards, the fire resistance test will be conducted in accordance to British Standards BS 476-20:1987. In addition, the testing conditions and corresponding equipment will be implemented in accordance to British Standards BS 476-20:1987.
2. During the test, the temperature inside the furnace will be increased according to the “Standard temperature/time curve” as mentioned in British Standard BS 476-20:1987. Unless specified by the Client, the fire resistance test only measures and records the Integrity and Insulation of the specimen.
3. For the test, the institute only reports the integrity and/ or insulation time of the specimen in accordance with the test standard. The institute also reports the failure of integrity and/ or insulation, if applicable. If the Client needs the institute to report the statement of conformity of the test result, the institute shall only provide the conformity decision based on the test standard and the test result, or the Client shall provide the standard and/ or technical specification of the statement of conformity to the institute. The institute does not formulate the decision rule

Item 4.1.6 Fire Resistance Test for Fire-stops / Fire Intumescent Material

1. Referring to the related information provided by the Client, in order to meet the international standards, the fire resistance test will be conducted in accordance to British Standards BS 476-20: 1987. In addition, the testing conditions and corresponding equipment will be implemented in accordance to British Standards BS 476-20:1987.
2. During the test, the temperature inside the furnace will be increased according to the “Standard temperature/time curve” as mentioned in British Standard BS 476-20:1987. Unless specified by the Client, the fire resistance test only measures and records the Integrity and Insulation of the specimen.
3. For the test, the institute only reports the integrity and/ or insulation time of the specimen in accordance with the test standard. The institute also reports the failure of integrity and/ or insulation, if applicable. If the Client needs the institute to report the statement of conformity of the test result, the institute shall only provide the conformity decision based on the test standard and the test result, or the Client shall provide the standard and/ or technical specification of the statement of conformity to the institute. The institute does not formulate the decision rule.

Remark:

Item 4.1.7 Fire Resistance Test for Fire Rated Ventilation Duct

1. Referring to the related information provided by the Client (internal fire of fire rated duct), in order to meet the international standards, the fire resistance test will be conducted reference to British Standards BS 476-20& 24:1987. In addition, the testing conditions and corresponding equipment will be implemented reference to British Standards BS 476-20&24:1987.
2. During the test, the temperature inside the furnace will be increased according to the “Standard temperature/time curve” as mentioned in British Standard BS 476-20:1987. Unless specified by the Client, the fire resistance test only measures and records the Stability, Integrity and Insulation of the specimen.
3. For the test, the institute only reports the integrity, insulation and stability time of the specimen in accordance with the test standard. The institute also reports the failure of integrity, insulation and stability, if applicable. If the Client needs the institute to report the statement of conformity of the test result, the institute shall only provide the conformity decision based on the test standard and the test result, or the Client shall provide the standard and/ or technical specification of the statement of conformity to the institute. The institute does not formulate the decision rule.

Remark:

Item 4.1.8 Fire Resistance Test for Ceiling Membranes

1. Referring to the related information provided by the Client, in order to meet the international standards, the fire resistance test will be conducted in accordance to British Standards BS 476-20&22:1987. In addition, the testing conditions and corresponding equipment will be implemented in accordance to British Standards BS 476-20&22:1987.
2. During the test, the temperature inside the furnace will be increased according to the “Standard temperature/time curve” as mentioned in British Standard BS 476-20:1987. Unless specified by the Client, the fire resistance test only measures and records the Integrity and Insulation of the specimen.
3. For the test, the institute only reports the integrity and/ or insulation time of the specimen in accordance with the test standard. The institute also reports the failure of integrity and/ or insulation, if applicable. If the Client needs the institute to report the statement of conformity of the test result, the institute shall only provide the conformity decision based on the test standard and the test result, or the Client shall provide the standard and/ or technical specification of the statement of conformity to the institute. The institute does not formulate the decision rule.

Horizontal Non-Loadbearing Elements of Construction

1. Referring to the related information provided by the Client, in order to meet the international standards, the fire resistance test will be conducted in accordance to British Standards BS 476-20:1987. In addition, the testing conditions and corresponding equipment will be implemented in accordance to British Standards BS 476-20:1987.
2. During the test, the temperature inside the furnace will be increased according to the “Standard temperature/time curve” as mentioned in British Standard BS 476-20:1987. Unless specified by the Client, the fire resistance test only measures and records the Integrity and Insulation of the specimen.
3. For the test, the institute only reports the integrity and/ or insulation time of the specimen in accordance with the test standard. The institute also reports the failure of integrity and/ or insulation, if applicable. If the Client needs the institute to report the statement of conformity of the test result, the institute shall only provide the conformity decision based on the test standard and the test result, or the Client shall provide the standard and/ or technical specification of the statement of conformity to the institute. The institute does not formulate the decision rule.

Remark:

Item 4.1.9 Non-Combustibility Test for Materials

1. Referring to the related information provided by the Client, the fire rated material is required to test for its Non-Combustibility. In order to meet the international standards, the Non-Combustibility test will be conducted according to British Standards BS 476-4:1970. In addition, the testing conditions and corresponding equipment will be implemented according to British Standards BS 476-4:1970.
2. During the test, the temperature inside the furnace will be maintained according to the requirement mentioned in British Standard BS 476-4:1970. Through record and observation, the criteria of failure of the specimen will be determined with respect to one criterion: Non-Combustibility. If the Client needs the institute to report the statement of conformity of the test result, the institute shall only provide the conformity decision based on the test standard and the test result, or the Client shall provide the standard and/ or technical specification of the statement of conformity to the institute. The institute does not formulate the decision rule.

Item 4.1.10 Fire Resistance Test for Fire Rated Fan

1. Client should prepare and install the ducting of the test fan according the requirements of the institute.
2. Referring to the related information provided by the Client, fire rated air fan is required to test its fire rated performance. According to the requirement of test sponsor, the temperature of the test will be kept at either 400oC or 250oC. In order to meet the international standards, the fire resistance test will be conducted reference to British Standards BS 476-20:1987. In addition, the testing conditions and corresponding equipment will be implemented reference to British Standards BS 476-20:1987.
3. During the test, the temperature inside the furnace will be increased according to the “Standard temperature/time curve” as mentioned in British Standard BS 476-20:1987. Unless specified by the Client, the fire resistance test only measures and records the Integrity of the specimen.
4. For the test, the institute only reports the integrity time of the specimen in accordance with the test standard. The institute also reports the failure of integrity, if applicable. If the Client needs the institute to report the statement of conformity of the test result, the institute shall only provide the conformity decision based on the test standard and the test result, or the Client shall provide the standard and/ or technical specification of the statement of conformity to the institute. The institute does not formulate the decision rule.

Remark:

Item 4.1.11.1 Reassessment for Fire Test Report

1. The renewal application of the Fire Test Report shall be applied by the owner of the original test report (which is the test sponsor).
2. The renewal process shall be applied before the expire date (the renew date of report) mentioned in the original test report. Any application after the expire date will not be accepted.
3. Based on the information provided by the Client, the original test report will be renewed for their further usage.
4. The new assessment report will be issued within 30 working days after the factory inspection for the factory of the test specimen manufacture by the institute and submittal of all necessary documentation from the Client, the documentation includes the following: (but not limited to)
   - Declaration/Confirmation letter regarding the testing material
   - Manufacture Factory Business Certificate issued by the government
   - Full set of test sample used and completion of manufacture factory inspection
5. After settle the payment, the information submitted by the test sponsor is incomplete, or different with the original test report, the institute have the right to request the test sponsor to make modification immediately or postpone to issue the assessment report. If the Client cannot submit the complete and correct information within 30 working days, the testing service will be cancelled.
6. The Client name of the renewal application must be the same as the test sponsor name of the test report.
7. The renewal report is valid for 3 years.
8. The institute will start the renewal process once the Client signed the service request form and settled the payment.
9. The usage of the renewal report solely depends on the test sponsor.
10. Any modification of the design, components or material used from the original test report will invalid the assessment report automatically.
11. Only one renewal report will be issued to the Client, and the name of the Client on the service request form MUST be the same as the test sponsor stated on the test report. Extra service fee will be charged for additional report copy (TRUE COPY) and only available to the Client under application. The Institute will keep extra report for internal record. Finally, the Institute have the final reporting rights.

12. The Client is responsible for the payment and arrangement of the transportation and accommodation between Macau and the manufacture factory, for maximum 2 engineers from the institute.
13. If the Client fails to provide sufficient information mentioned above, the Institute have the right to ask for sufficient information before proceeding the renewal process.
14. Due to the public interest, such type of reports must be reviewed and backed up by Corpo do Bombeiros as approval (in Macau). Therefore, all reports of Fire Resistance types issued by IDQ will be in triplicate, one for the Client, one for IDQ and one for Corpo do Bombeiros.

Remark:

Item 4.1.11.2 Issue the English Fire Test Report

1. The application of the English Version Fire Test Report shall be applied by the owner of the original test report (which is the test sponsor).
2. The Client must apply for the English version of the fire test report within the effective date of the test report (the renew date of report).
3. According to the Client request, English Version Fire Resistence Test Report is required for their further usage.
4. The Client name of the application must be the same as the test sponsor name of the test report.
5. The English Version report will be issued within 30 working days after the confirmation of the service request form and settle the payment.
6. The valid date of this English Version Report will be exactly the same as the original fire test report (Chinese one).
7. The service will be provided after confirmation of the service by the Client and completing the payment.
8. The usage of the renewal report solely depends on the test sponsor.
9. Any modification of the design, components or material used from the original test report will invalid the English Version report automatically.
10. Only one English Version report will be issued to the Client, and the name of the Client on the service request form MUST be the same as the test sponsor stated on the test report. Extra service fee will be charged for additional report copy (TRUE COPY) and only available to the Client under application. The Institute will keep extra report for internal record. Finally, the Institute have the final reporting rights.
11. Due to the public interest, such type of reports must be reviewed and backed up by Corpo do Bombeiros as approval (in Macau). Therefore, all reports of Fire Resistance types issued by IDQ will be in triplicate, one for the Client, one for IDQ and one for Corpo do Bombeiros.

Remark:

Item 4.1.11.3 True Copy Report

1. The application of the True Copy Report shall be applied by the owner of the original test report (which is the test sponsor).
2. The Client must apply for the copy of the fire resistance report within the effective date of the test report (the renew date of report).
3. According to the Client request, True Copy Report is required for their further usage.
4. The Client name of the application must be the same as the test sponsor name of the test report.
5. The True Copy Report will be issued within 10 working days after the confirmation of the service request form by the Client and completing the payment.
6. The usage of the True Copy Report solely depends on the test sponsor.
7. The True Copy Report will only be provided under the application of the Client.
8. The letter “True Copy Report” will be printed at the footer of the test report, in order to identify from the original fire test report. (For example, 20XX-FRTXXX True Copy Report).
9. Only one True Copy Report will be issued to the Client, and the name of the Client on the service request form MUST be the same as the test sponsor stated on the test report. Extra service fee will be charged for additional report and only available to the Client under application. The Institute will keep extra report for internal record. Finally, the Institute have the final reporting rights.

Remark:

Item 4.1.12.1 Dimension Assessment Report for Fire Door

1. The application of the Dimension Assessment Report for Fire Door shall be applied by the owner of the original test report (which is the test sponsor).
2. The process shall be applied before the expired date (the renew date of report) mentioned in the original test report. Any application after the expired date will not be accepted.
3. Based on the information provided by the Client, the institute assesses whether the fire resistance the fire door fulfills the requirements of the Client after the dimension of the fire door has been changed for their further usage.
4. The new assessment report will be issued within 30 working days after the submittal of all necessary documentation and payment of the assessment report from the Client, the documentation includes the following: (but not limited to)
   - The drawing of the fire door which is to be assessed,
   - The schedule of components of the fire door which is to be assessed.
5. The Client name of the assessment report must be the same as the test sponsor name of the test report.
6. The assessment report is valid for 3 years, and when the original test report becomes invalid, the corresponding assessment report will also become invalid (the validity period is subject to the earlier expiration date).
7. The institute will start the assessment process once the Client signed the service request form and settled the payment.
8. The usage of the renewal report solely depends on the test sponsor.
9. Any modification of the design, components or material used from the original test report will invalid the assessment report automatically.
10. Only one assessment report will be issued to the Client, and the name of the Client on the service request form MUST be the same as the test sponsor stated on the test report. Extra service fee will be charged for additional report copy (TRUE COPY) and only available to the Client under application. The Institute will keep extra report for internal record. Finally, the Institute have the final reporting rights.
11. If the Client fails to provide sufficient information mentioned above, the Institute have the right to ask for sufficient information before proceeding the assessment process.
12. Due to the public interest, such type of reports must be reviewed and backed up by Corpo do Bombeiros as approval (in Macau). Therefore, all reports of Fire Resistance types issued by IDQ will be in triplicate, one for the Client, one for IDQ and one for Corpo do Bombeiros.

Remark:

Item 4.1.12.2 Dimension and Ironmongery Assessment Report for Fire Door

1. The application of the Dimension and Ironmongery Assessment Report for Fire Door shall be applied by the owner of the original test report (which is the test sponsor).
2. The process shall be applied before the expired date (the renew date of report) mentioned in the original test report. Any application after the expired date will not be accepted.
3. Based on the information provided by the Client, the institute assesses whether the fire resistance the fire door fulfills the requirements of the Client after the dimension of the fire door has been changed for their further usage.
4. The new assessment report will be issued within 30 working days after the submittal of all necessary documentation and payment of the assessment report from the Client, the documentation includes the following: (but not limited to)
   - The drawing of the fire door which is to be assessed,
   - The schedule of components of the fire door which is to be assessed,
   - The comparison list of the replace components/ ironmongery,
   - The catalog and information of the original components/ ironmongery and the components/ ironmongery to be assessed issued by the factory/ supplier,
   - The fire test report/ certificate of the components/ ironmongery which is to be assessed.
5. The Client name of the assessment report must be the same as the test sponsor name of the test report.
6. The assessment report is valid for 3 years, and when the original test report becomes invalid, the corresponding assessment report will also become invalid (the validity period is subject to the earlier expiration date).
7. The institute will start the assessment process once the Client signed the service request form and settled the payment.
8. The usage of the renewal report solely depends on the test sponsor.
9. Any modification of the design, components or material used from the original test report will invalid the assessment report automatically.
10. Only one assessment report will be issued to the Client, and the name of the Client on the service request form MUST be the same as the test sponsor stated on the test report. Extra service fee will be charged for additional report copy (TRUE COPY) and only available to the Client under application. The Institute will keep extra report for internal record. Finally, the Institute have the final reporting rights.

11. If the Client fails to provide sufficient information mentioned above, the Institute have the right to ask for sufficient information before proceeding the assessment process.
12. Due to the public interest, such type of reports must be reviewed and backed up by Corpo do Bombeiros as approval (in Macau). Therefore, all reports of Fire Resistance types issued by IDQ will be in triplicate, one for the Client, one for IDQ and one for Corpo do Bombeiros.

Remark:

Item 4.2.1 Fire Resistance Test for Fire Door

1. Referring to the related information provided by the Client, in order to meet the international standards, the fire resistance test will be conducted in accordance to Standards BS EN 1363-1: 2020 and BS EN 1634-1: 2014 + A1: 2018. In addition, the testing conditions and corresponding equipment will be implemented in accordance to Standards BS EN 1363-1: 2020 and BS EN 1634-1: 2014 + A1: 2018 (setup and evaluation according to supplementary procedure).
2. During the test, the temperature inside the furnace will be increased according to the “Standard temperature/time curve” as mentioned in Standard BS EN 1363-1: 2020. Unless specified by the Client, the fire resistance test only measures and records the Integrity and Insulation of the specimen.
3. According with the Standards BS EN 13501-2: 2016. The Fire Door specimen will be classified (EI_1).
4. For the test, the institute only reports the integrity and/ or insulation time of the specimen in accordance with the test standard. The institute also reports the failure of integrity and/ or insulation, and according the integrity and insulation time to the classification if applicable. If the Client needs the institute to report the statement of conformity of the test result, the institute shall only provide the conformity decision based on the test standard and the test result, or the Client shall provide the standard and/ or technical specification of the statement of conformity to the institute. The institute does not formulate the decision rule.

Remark:

Item 4.2.2 Fire Resistance Test for Partition / Wall

1. Referring to the related information provided by the Client, in order to meet the international standards, the fire resistance test will be conducted in accordance to Standards BS EN 1363-1: 2020 and BS EN 1364-1: 2015. In addition, the testing conditions and corresponding equipment will be implemented in accordance to Standards BS EN 1363-1: 2020 and BS EN 1364-1: 2015.
2. During the test, the temperature inside the furnace will be increased according to the “Standard temperature/time curve” as mentioned in Standard BS EN 1363-1: 2020. Unless specified by the Client, the fire resistance test only measures and records the Integrity and Insulation of the specimen.
3. According with the Standards BS EN 13501-2: 2016. The Fire Wall / Partition specimen will be classified (EI).
4. For the test, the institute only reports the integrity and/ or insulation time of the specimen in accordance with the test standard. The institute also reports the failure of integrity and/ or insulation, and according the integrity and insulation time to the classification if applicable. If the Client needs the institute to report the statement of conformity of the test result, the institute shall only provide the conformity decision based on the test standard and the test result, or the Client shall provide the standard and/ or technical specification of the statement of conformity to the institute. The institute does not formulate the decision rule.

Remark:

Item 4.2.3 Fire Resistance Test for Fire Rated Glass/Glazing

1. Referring to the related information provided by the Client, in order to meet the international standards, the fire resistance test will be conducted in accordance to Standards BS EN 1363-1: 2020 and BS EN 1364-1: 2015(Glazing Element) / BS EN 1634-1: 2014 + A1: 2018(Glazing Door). In addition, the testing conditions and corresponding equipment will be implemented in accordance to Standards BS EN 1363-1: 2020 and BS EN 1364-1: 2015 (Glazing Element) / BS EN 1634-1: 2014 + A1: 2018 (setup and evaluation according to supplementary procedure) (Glazing Door).
2. During the test, the temperature inside the furnace will be increased according to the “Standard temperature/time curve” as mentioned in Standard BS EN 1363-1: 2020. Unless specified by the Client, the fire resistance test only measures and records the Integrity and Insulation of the specimen.
3. According with the Standards BS EN 13501-2: 2016. The Fire Glazing Element/ Glazing Door specimen will be classified (EI (Glazing Element) / EI_1 (Glazing Door)).
4. For the test, the institute only reports the integrity and/ or insulation time of the specimen in accordance with the test standard. The institute also reports the failure of integrity and/ or insulation, and according the integrity and insulation time to the classification if applicable. If the Client needs the institute to report the statement of conformity of the test result, the institute shall only provide the conformity decision based on the test standard and the test result, or the Client shall provide the standard and/ or technical specification of the statement of conformity to the institute. The institute does not formulate the decision rule.

Remark:

Item 4.2.4 Fire Resistance Test for Fire Curtain/ Fire Shutter

1. Referring to the related information provided by the Client, in order to meet the international standards, the fire resistance test will be conducted in accordance to Standards BS EN 1363-1: 2020 and BS EN 1634-1: 2014 + A1: 2018. In addition, the testing conditions and corresponding equipment will be implemented in accordance to Standards BS EN 1363-1: 2020 and BS EN 1634-1: 2014 + A1: 2018 (setup and evaluation according to supplementary procedure).
2. During the test, the temperature inside the furnace will be increased according to the “Standard temperature/time curve” as mentioned in Standard BS EN 1363-1: 2020. Unless specified by the Client, the fire resistance test only measures and records the Integrity and Insulation of the specimen.
3. According with the Standards BS EN 13501-2: 2016. The Fire Curtain/ Fire Shutter specimen will be classified (EI_1).
4. For the test, the institute only reports the integrity and/ or insulation time of the specimen in accordance with the test standard. The institute also reports the failure of integrity and/ or insulation, and according the integrity and insulation time to the classification if applicable. If the Client needs the institute to report the statement of conformity of the test result, the institute shall only provide the conformity decision based on the test standard and the test result, or the Client shall provide the standard and/ or technical specification of the statement of conformity to the institute. The institute does not formulate the decision rule.

Remark:

Item 4.2.5 Fire Resistance Test for Fire Damper

1. Referring to the related information provided by the Client, in order to meet the international standards, the fire resistance test of the Fire Damper (different installation type / direction / connection type) will be conducted in accordance to Standards BS EN 1363-1: 2020 and EN 1366-2: 2015. In addition, the testing conditions and corresponding equipment will be implemented in accordance to Standards BS EN 1363-1: 2020 and EN 1366-2: 2015.
2. During the test, the temperature inside the furnace will be increased according to the "Standard temperature/time curve" as mentioned in Standard BS EN 1363-1: 2020. Unless specified by the Client, the fire resistance test only measures and records the Integrity and Insulation of the specimen.
3. According with the Standards BS EN 13501-3: 2025. The Fire Damper specimen will be classified (EI).
4. For the test, the institute only reports the integrity and/ or insulation time of the specimen in accordance with the test standard. The institute also reports the failure of integrity and/ or insulation, and according the integrity and insulation time to the classification if applicable. If the Client needs the institute to report the statement of conformity of the test result, the institute shall only provide the conformity decision based on the test standard and the test result, or the Client shall provide the standard and/ or technical specification of the statement of conformity to the institute. The institute does not formulate the decision rule.
5. Depending on different installation type/direction/connection type, the number of the fire resistance test must be carried out：
   - Installation type：installation in / on / away from the supporting construction - 2 fire resistance test must be tested.
   - Installation direction：one way fire damper – maintain the number of installation type / two way fire damper – double the number of installation type (NOT INCLUDING INSTALLATION IN THE SUPPORTING CONSTRUCTION)
   - Connection type：connect with duct – maintain the number of installation type / no ducting on one or both sides – add 2 additional fire resistance test

Remark:

Item 4.2.6 Fire Resistance Test for Fire-stops / Fire Intumescent Material

1. Referring to the related information provided by the Client, in order to meet the international standards, the fire resistance test will be conducted in accordance to Standards BS EN 1363-1: 2020 and BS EN 1366-3: 2021 + A1: 2024 / BS EN 1366-4: 2021. In addition, the testing conditions and corresponding equipment will be implemented in accordance to Standards BS EN 1363-1: 2020 and BS EN 1366-3: 2021+ A1: 2024 / BS EN 1366-4: 2021.
2. During the test, the temperature inside the furnace will be increased according to the “Standard temperature/time curve” as mentioned in Standard BS EN 1363-1: 2020. Unless specified by the Client, the fire resistance test only measures and records the Integrity and Insulation of the specimen.
3. According with the Standards BS EN 13501-2: 2016. The Fire stops specimen will be classified (EI).
4. For the test, the institute only reports the integrity and/ or insulation time of the specimen in accordance with the test standard. The institute also reports the failure of integrity and/ or insulation, and according the integrity and insulation time to the classification if applicable. If the Client needs the institute to report the statement of conformity of the test result, the institute shall only provide the conformity decision based on the test standard and the test result, or the Client shall provide the standard and/ or technical specification of the statement of conformity to the institute. The institute does not formulate the decision rule.

Remark:

Item 4.2.7 Fire Resistance Test for Fire Rated Ventilation Duct

1. Referring to the related information provided by the Client, in order to meet the international standards, the fire resistance test will be conducted in accordance with Standards BS EN 1363-1: 2020 and BS EN 1366-1: 2014 + A1: 2020 and BS EN 1366-8: 2024. In addition, the testing conditions and corresponding equipment will be implemented in accordance to Standards BS EN 1363-1: 2020 and BS EN 1366-1: 2014 + A1: 2020 and BS EN 1366-8: 2024.
2. According with Standards BS EN 1366-1: 2014 + A1: 2020 requirements, the cross section areas of the duct specimens are 1000±10 x 500±10(mm) and 1000±10 x 250±10(mm), according with Standards BS EN 1366-8: 2024 requirements, the cross-section areas of the duct specimens are 1000 x 250(mm). If the cross-sectional structure (including the materials for wrapping air ducts) of the air duct designed by the Client exceeds the general conventional size of 1400 x 900 (mm), the air duct must be tested separately, and the testing fee will be charge according to the number of test sections.
3. During the test, the temperature inside the furnace will be increased according to the “Standard temperature/time curve” as mentioned in Standard BS EN 1363-1: 2020. Unless specified by the Client, the fire resistance test only measures and records the Integrity and Insulation of the specimen.
4. According with the Standards BS EN 13501-4:2016. The Fire Duct specimen will be classified (EI).
5. For the test, the institute only reports the Integrity and Insulation time of the specimen in accordance with the test standard. The institute also reports the failure of Integrity and Insulation, and according the integrity and insulation time to the classification if applicable. If the Client needs the institute to report the statement of conformity of the test result, the institute shall only provide the conformity decision based on the test standard and the test result, or the Client shall provide the standard and/ or technical specification of the statement of conformity to the institute. The institute does not formulate the decision rule.

Remark:

Item 4.2.8 Fire Resistance Test for Fire Ceiling Membranes

1. Referring to the related information provided by the Client, in order to meet the international standards, the fire resistance test will be conducted in accordance to Standards BS EN 1363-1: 2020 and BS EN 1364-2: 2018. In addition, the testing conditions and corresponding equipment will be implemented in accordance to Standards BS EN 1363-1: 2020 and BS EN 1364-2: 2018.
2. During the test, the temperature inside the furnace will be increased according to the “Standard temperature/time curve” as mentioned in Standard BS EN 1363-1: 2020. Unless specified by the Client, the fire resistance test only measures and records the Integrity and Insulation of the specimen.
3. According with the Standards BS EN 13501-2: 2016. The Fire Ceiling Membranes specimen will be classified (EI).
4. For the test, the institute only reports the integrity and/ or insulation time of the specimen in accordance with the test standard. The institute also reports the failure of integrity and/ or insulation, and according the integrity and insulation time to the classification if applicable. If the Client needs the institute to report the statement of conformity of the test result, the institute shall only provide the conformity decision based on the test standard and the test result, or the Client shall provide the standard and/ or technical specification of the statement of conformity to the institute. The institute does not formulate the decision rule.

Remark:

Item 4.2.9 Fire Classification of Material

1. Referring to the related information provided by the Client, in order to meet the international standards, the Fire Classification of Material will be conducted in accordance to Standards BS EN 13501-1: 2018. In addition, the testing conditions and corresponding equipment will be implemented in accordance to Standards BS EN 13501-1: 2018 with different classification.
2. During the test, the specimen will be tested for different standards and correspond parameters by Client' requires fire reaction grade according to Standards BS EN 13501-1: 2018. Through recording and observation, the classification of the test specimen can be classified as: A1, A2, B, C, D, E classes. If the Client needs the institute to report the statement of conformity of the test result, the institute shall only provide the conformity decision based on the test standard and the test result, or the Client shall provide the standard and/ or technical specification of the statement of conformity to the institute. The institute does not formulate the decision rule.

Item 4.2.10 Smoke Control Test for Fire Door

1. Referring to the related information provided by the Client, in order to meet the international standards, the smoke control test will be conducted in accordance to Standards BS EN 1634-3:2004. In addition, the testing conditions and corresponding equipment will be implemented in accordance to Standards BS EN 1634-3:2004.
2. During the test, the temperature inside the furnace will be control according to in a specify temperature range as mentioned in Standard BS EN 1634-3:2004. Through recording and observation, the smoke leakage will be measured and recorded as different pressures at ambient temperature and 200°C
3. According with the Standards BS EN 13501-2: 2016, to determine the Fire Door whether pass or not.
4. For the test, the institute only reports the smoke leakage of the specimen in accordance with the test standard in different pressures at ambient temperature and 200°C. The institute also reports the failure of smoke leakage, if applicable. If the Client needs the institute to report the statement of conformity of the test result, the institute shall only provide the conformity decision based on the test standard and the test result, or the Client shall provide the standard and/ or technical specification of the statement of conformity to the institute. The institute does not formulate the decision rule.

Remark:

Item 4.2.11.1 Dimension Assessment Report for Fire Door

1. The application of the Dimension Assessment Report for Fire Door shall be applied by the owner of the original test report (which is the test sponsor).
2. The process shall be applied before the expired date (the renew date of report) mentioned in the original test report. Any application after the expired date will not be accepted.
3. Based on the information provided by the Client, the institute assesses whether the fire resistance the fire door fulfills the requirements of the Client after the dimension of the fire door has been changed for their further usage.
4. The new assessment report will be issued within 30 working days after the submittal of all necessary documentation and payment of the assessment report from the Client, the documentation includes the following: (but not limited to)
   - The drawing of the fire door which is to be assessed,
   - The schedule of components of the fire door which is to be assessed.
5. The Client name of the assessment report must be the same as the test sponsor name of the test report.
6. The assessment report is valid for 3 years, and when the original test report becomes invalid, the corresponding assessment report will also become invalid (the validity period is subject to the earlier expiration date).
7. The institute will start the assessment process once the Client signed the service request form and settled the payment.
8. The usage of the renewal report solely depends on the test sponsor.
9. Any modification of the design, components or material used from the original test report will invalid the assessment report automatically.
10. Only one assessment report will be issued to the Client, and the name of the Client on the service request form MUST be the same as the test sponsor stated on the test report. Extra service fee will be charged for additional report copy (TRUE COPY) and only available to the Client under application. The Institute will keep extra report for internal record. Finally, the Institute have the final reporting rights.
11. If the Client fails to provide sufficient information mentioned above, the Institute have the right to ask for sufficient information before proceeding the assessment process.
12. Due to the public interest, such type of reports must be reviewed and backed up by Corpo do Bombeiros as approval (in Macau). Therefore, all reports of Fire Resistance types issued by IDQ will be in triplicate, one for the Client, one for IDQ and one for Corpo do Bombeiros.

Remark:

Item 4.2.11.2 Dimension and Ironmongery Assessment Report for Fire Door

1. The application of the Dimension and Ironmongery Assessment Report for Fire Door shall be applied by the owner of the original test report (which is the test sponsor).
2. The process shall be applied before the expired date (the renew date of report) mentioned in the original test report. Any application after the expired date will not be accepted.
3. Based on the information provided by the Client, the institute assesses whether the fire resistance the fire door fulfills the requirements of the Client after the dimension of the fire door has been changed for their further usage.
4. The new assessment report will be issued within 30 working days after the submittal of all necessary documentation and payment of the assessment report from the Client, the documentation includes the following: (but not limited to)
   - The drawing of the fire door which is to be assessed,
   - The schedule of components of the fire door which is to be assessed,
   - The comparison list of the replace components/ ironmongery,
   - The catalog and information of the original components/ ironmongery and the components/ ironmongery to be assessed issued by the factory/ supplier,
   - The fire test report/ certificate of the components/ ironmongery which is to be assessed.
5. The Client name of the assessment report must be the same as the test sponsor name of the test report.
6. The assessment report is valid for 3 years, and when the original test report becomes invalid, the corresponding assessment report will also become invalid (the validity period is subject to the earlier expiration date).
7. The institute will start the assessment process once the Client signed the service request form and settled the payment.
8. The usage of the renewal report solely depends on the test sponsor.
9. Any modification of the design, components or material used from the original test report will invalid the assessment report automatically.
10. Only one assessment report will be issued to the Client, and the name of the Client on the service request form MUST be the same as the test sponsor stated on the test report. Extra service fee will be charged for additional report copy (TRUE COPY) and only available to the Client under application. The Institute will keep extra report for internal record. Finally, the Institute have the final reporting rights.

11. If the Client fails to provide sufficient information mentioned above, the Institute have the right to ask for sufficient information before proceeding the assessment process.
12. Due to the public interest, such type of reports must be reviewed and backed up by Corpo do Bombeiros as approval (in Macau). Therefore, all reports of Fire Resistance types issued by IDQ will be in triplicate, one for the Client, one for IDQ and one for Corpo do Bombeiros.

Remark:

Item 4.2.12 Fire Resistance Test for Smoke Control Damper

1. Referring to the related information provided by the Client, in order to meet the international standards, the fire resistance test of the Smoke Control Damper (different installation type) will be conducted in accordance to Standards BS EN 1363-1: 2020 and BS EN 1366-10: 2022 + A1: 2024. In addition, the testing conditions and corresponding equipment will be implemented in accordance to Standards BS EN 1363-1: 2020 and BS EN 1366-10: 2022 + A1: 2024.
2. During the test, the temperature inside the furnace will be increased according to the “Standard temperature/time curve” as mentioned in Standard BS EN 1363-1: 2020. Unless specified by the Client, the fire resistance test only measures and records the Integrity and Insulation of the specimen.
3. According with the Standards BS EN 13501-4: 2016. The Smoke Control Damper specimen will be classified (EI).
4. For the test, the institute only reports the integrity and/ or insulation time of the specimen in accordance with the test standard. The institute also reports the failure of integrity and/ or insulation, and according the integrity and insulation time to the classification if applicable. If the Client needs the institute to report the statement of conformity of the test result, the institute shall only provide the conformity decision based on the test standard and the test result, or the Client shall provide the standard and/ or technical specification of the statement of conformity to the institute. The institute does not formulate the decision rule.
5. Depending on different installation type, the number of the fire resistance test must be carried out：
    - Duct Mounted -1 fire resistance test must be tested (including 2 large size smoke control damper and duct) and 1.leakage test of small size smoke control damper
    - Compartment Boundary Mounted -3 fire resistance test must be tested (including 3 large size smoke control damper and 1 duct) and 1.leakage test of small size smoke control damper